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Scope

This document provides the design for the Web Application user log in, user registration, Medicaid digital registration, and user administration necessary to support the CMS Interoperability Project. The Web Application provides the ability for State of Nebraska public users (i.e., Medicaid Members) to register for an account and link their user account with their respective Medicaid identifiers. This is a necessary step to enable the user to use third-party provide applications to access Medicaid records. Third Party applications are not within the scope of this Web Application or the specifications provided here in.

Reference Materials and Documents

The following materials and documents are necessary for the Web Application and this design specification.

1. iServe Design Standards
2. Business to Consumer (B2C) templates
3. Application Registration Design - Application Registration Design Document
4. ID.me OIDC Integration Guide v1.1 - (located at: ID.me Files)

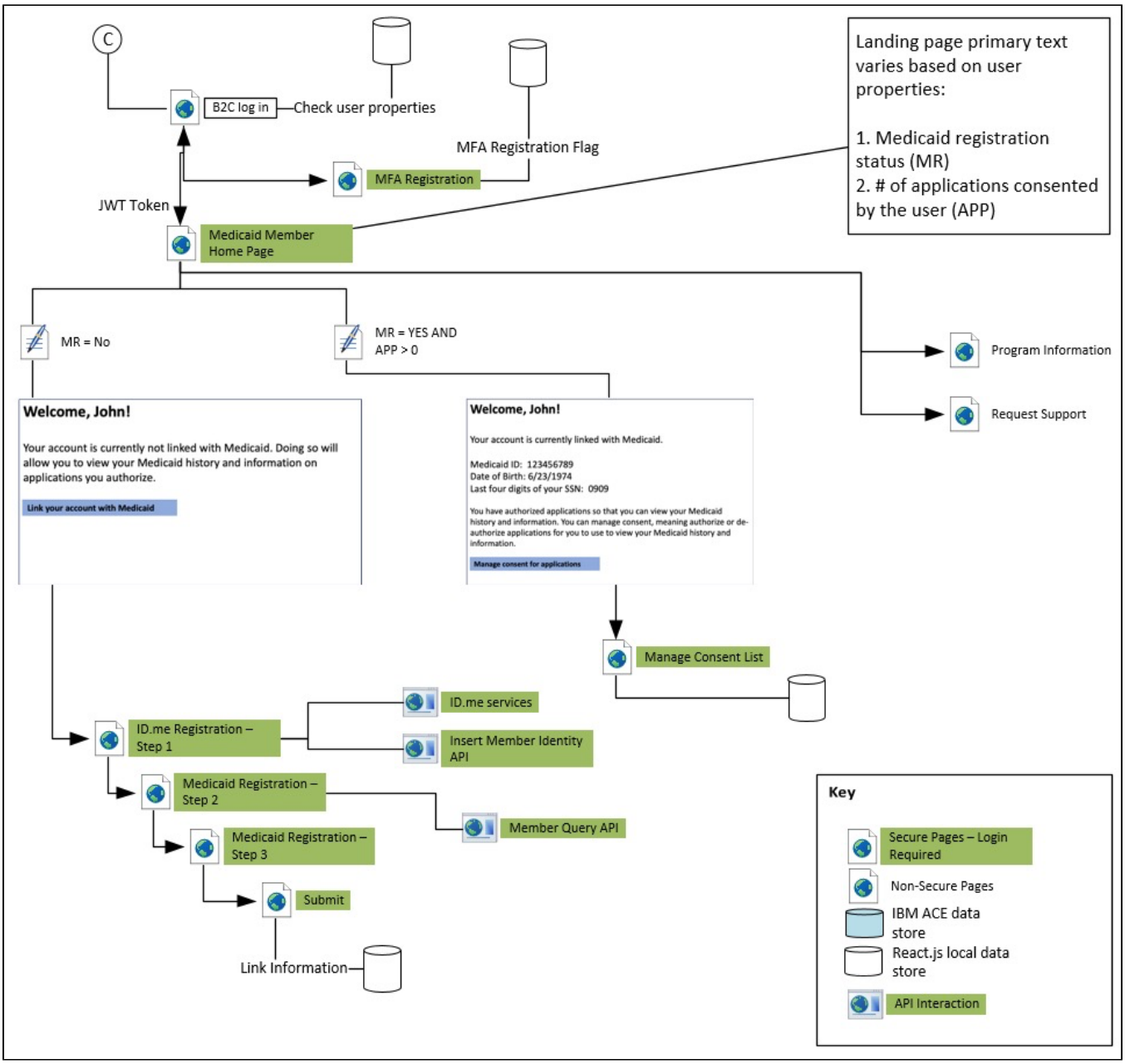
Functional Design

The following subsections provides system pages and components for the following major areas of functionality:

- Log In
- User Registration
- Medicaid Digital Registration
- User Administration

Navigation Overview

The system provides navigation for end users and administrators. The following provides the overall navigation flow for **User Registration**.



Actors or Personas Involved

Actor	Description
Non Registered User	A Medicaid member who has not yet registered with the State's B2C process.
Registered User	A Medicaid member who has registered with the State's B2C process.
MMIS	Enables lookup of user for the purpose of linking the user registration with Medicaid.
Identity Proofing	Verifies the user is identified using an outsourced service provided by ID.me
Multi-Factor Authentication	Requires user to log in with additional data using an outsourced service.
Administrators	Manages users and application consent for users.

System Pages or Components

The following subsections provides system pages and components for the following major areas of functionality:

- Sign In / Sign Up
- Medicaid Digital Registration
- Manage Consent
- Administration

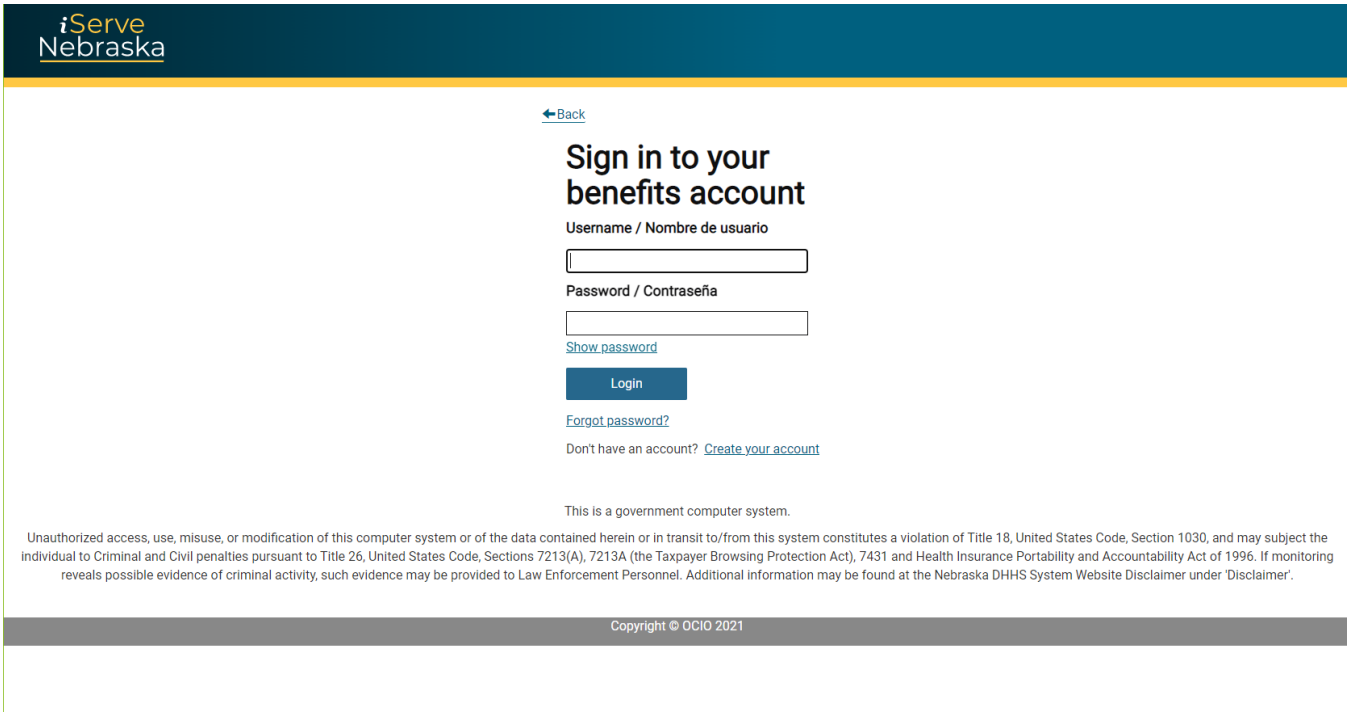
Sign In / Sign Up

Sign In / Sign Up is conducted by the DHHS Business to Consumer (B2C) Azure functionality.

B2C Sign In

This page enables the Medicaid user to sign into their B2C account.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	It is text field and it is mandatory field
Password	It is password field and it is mandatory field
Sign In	Performs Sign In of the user against the B2C database
Create Your Account	Enables Medicaid members to sign up.

Action Involved

The following actions are involved with this component:

1. Sign In to authenticate the Medicaid member

Component-Specific Non-Functional Requirements

1. None.

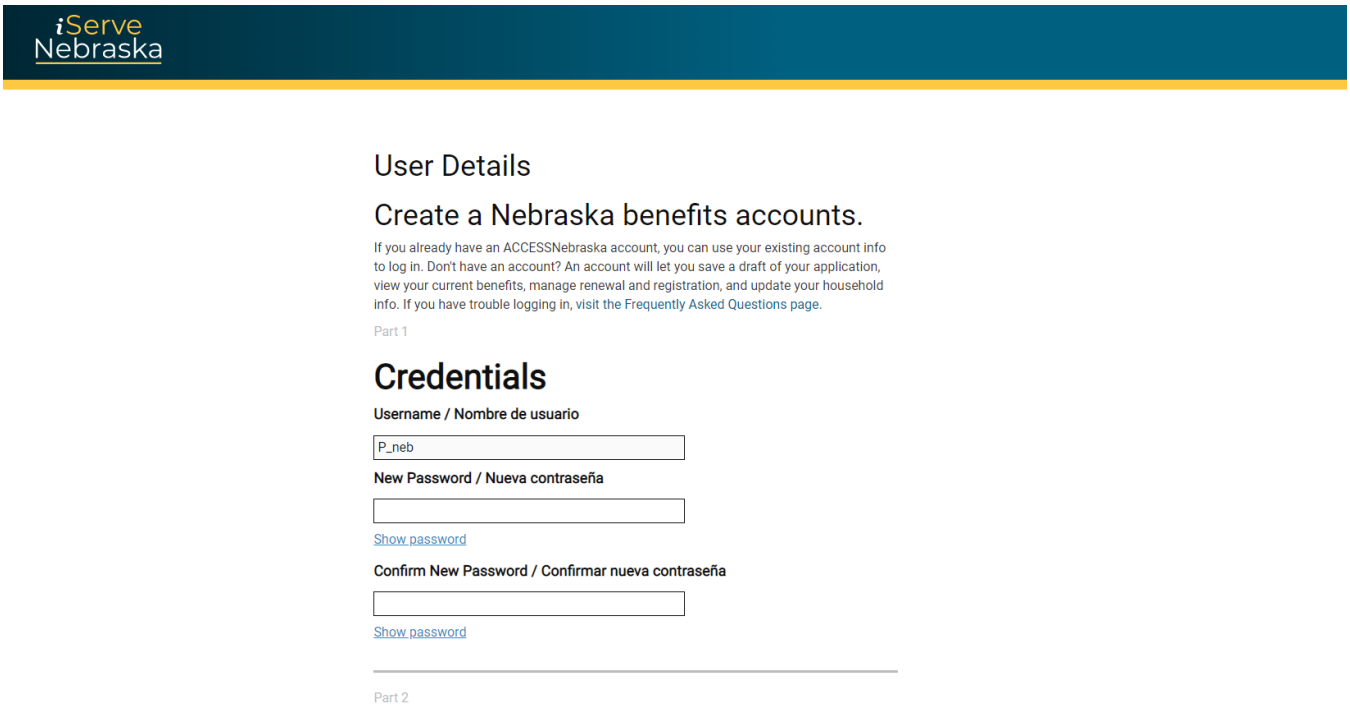
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Sign Up

The Sign Up process leverages DHHS B2C capability to enable Medicaid members to sign up for an account. Account information is shared with iServe Sign Up.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	The user name for the Medicaid member.
Password	User entered password.

Action Involved

The following actions are involved with this component:

1. This is the first of three steps to creating a user account.
2. User name must be unique.

Component-Specific Non-Functional Requirements

1. None.

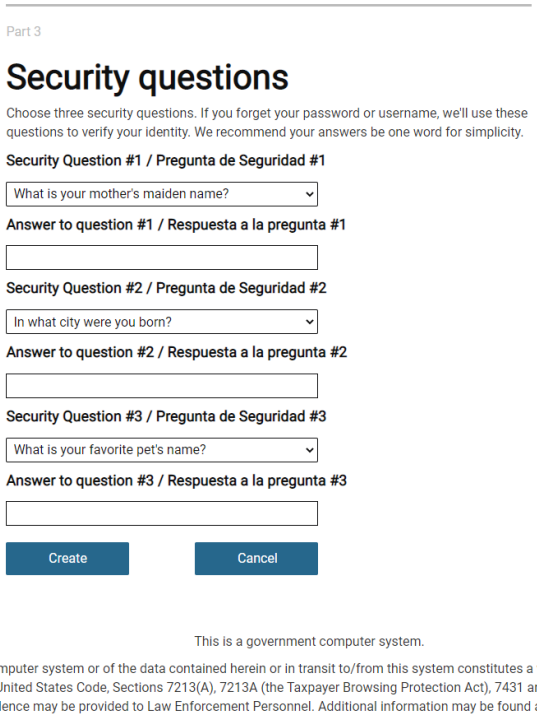
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Security Questions

This page provides three security questions that are used to recover the Medicaid member's account access (i.e., forgotten password).

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Security Questions 1 to 3	Enables the Medicaid member to select answers to three questions.

Action Involved

The following actions are involved with this component:

1. This is the second of three steps to creating a user account.
2. Create user account. Duplicate user accounts are not allows.
3. Cancel to stop the account creation process.

Component-Specific Non-Functional Requirements

1. None

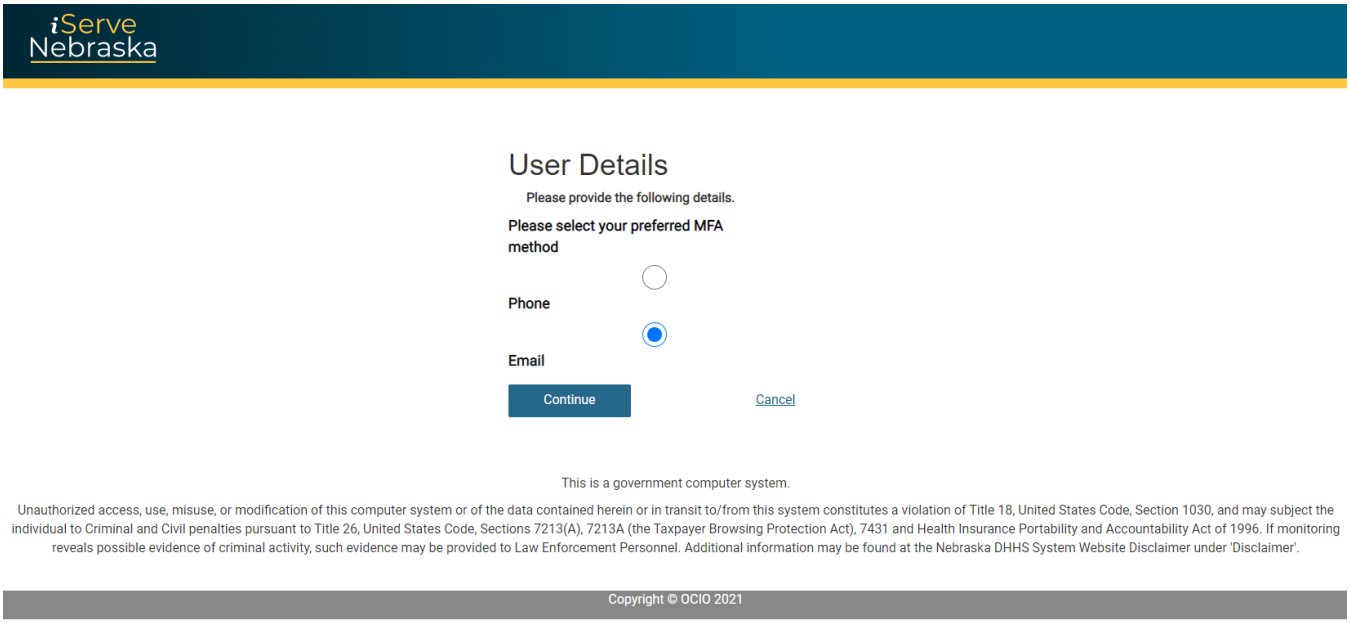
Constraints or Limitations

1. None.

B2C Multi-Factor Authentication

Multi-Factor Authentication (MFA) is required as a first step to linking a Medicaid member's record. This page enables the user to setup MFA. MFA provides an extra layer of security in case the Medicaid member attempts to log in the first time or from a different device.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MFA Method	The user selects
MFA Data Entry	Mobile phone number or email address to use for MFA verification.
MEMBER_MFAREGISTERED_IND	Stores the MFA registration flag.

Action Involved

The following actions are involved with this component:

1. This is the third of three steps to creating a user account.
2. The Medicaid member selects the method by which they will perform MFA. Typically, this will be a mobile number or email address.
3. The Medicaid member will be prompted a dialog box to turn on MFA.
4. The Medicaid member will be prompted to conduct MFA on first log on or if the Medicaid member is conducting log in from an unrecognized device.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. The Azure B2C capability will be extended to add MFA verification. MFA is not used by iServe.
2. The exact MFA methods available will depend on the Azure B2C configuration supported by DHHS.

Medicaid Member Home Page

This page provides the home page for Medicaid members. This page can be published as a standalone page and published as a part of the DHHS Member communications process. It can also be launched from the CMS Interoperability Home Page (see **App Registration Design**).

Diagram or Screen Design

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
None	

Action Involved

The following actions are involved with this component.

1. Sign In - Invokes the Sign In process (**Sign In Page** opens).
2. Sign Up - Invokes the Sign Up process (**Sign Up Page** opens).
3. Once the Medicaid member signs in, this page displays text above the tiles based on user properties:
    a. Medicaid registration status (MR)
    b. # of applications consented by the user (APP)
4. If MR = 0
    a. Text = "Your account is currently not linked with Medicaid. Doing so will allow you to view your Medicaid history and information on applications you authorize. "
    b. Button label = "Link your account with Medicaid". This button opens the **Medicaid Digital Registration - Step 1 Page**.
5. If MR > 0 and APP > 0
    a. Text = "Your account is linked with Medicaid. You have authorized applications so that you can view your Medicaid history and information. You can manage consent, meaning authorize or de-authorize applications for you to use to view your Medicaid history and information."
    b. Button label = "Manage consent for applications"
6. Link My Medicaid Account - enables the Medicaid member to link their B2C account with Medicaid (MMIS). By clicking on this tile, the **Medicaid Digital Registration - Step 1 Page** opens.
7. Documentation - view publicly documentation relevant to CMS Interoperability and other guides. NOT PART OF MVP

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

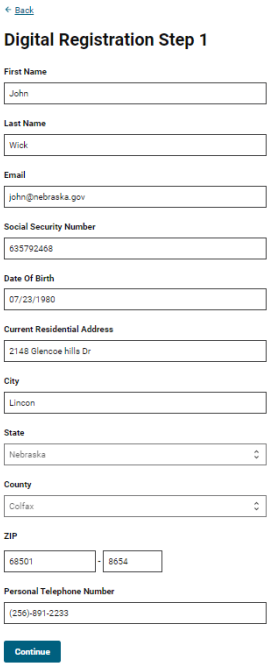
1. None.

Medicaid Digital Registration

ID.me Registration - Step 1

This page enables the user to begin the process of to launch the identity verification service provided by the DHHS selected identity provider, ID.me. (This will be an ID.me webpage where user validates with ID.me). We will show the info we get back from ID.me to the User so they can confirm and move further.

Diagram or Screen Design



Data Elements Involved

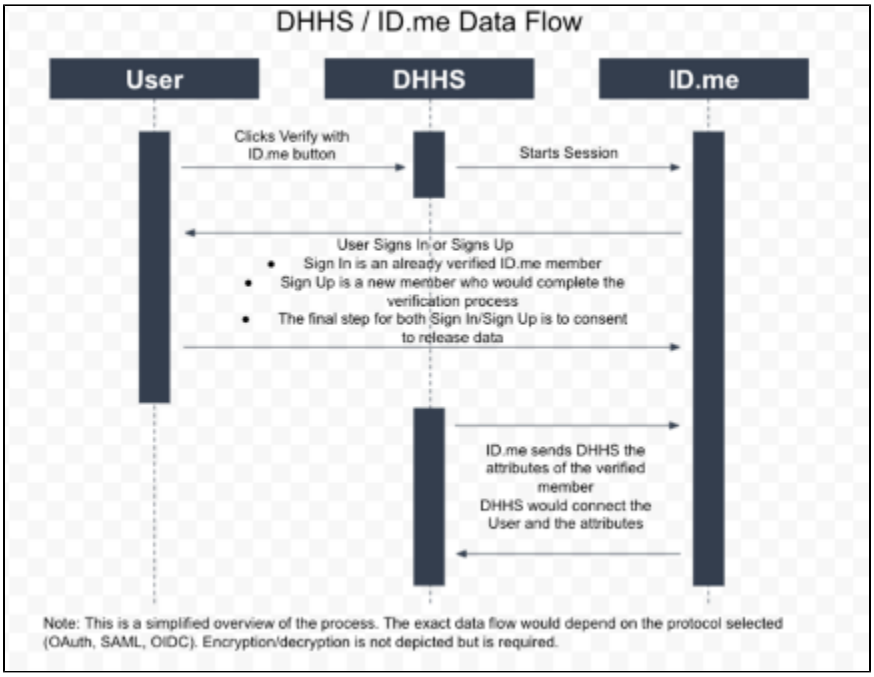
The following data elements are involved with this component.

Data Element	Description
UUID	Unique identifier from ID.me (not viewed on page)
Email	Read only view of the email address
First Name	Read only view of the first name of the Medicaid member
Middle Name	Read only view of the middle name of the Medicaid member
Last Name	Read only view of the last name of the Medicaid member
Birth Date	Read only view of the date of birth of the Medicaid member
Social Security Number	Read only view of the SSN of the Medicaid member
Address	Read only view of the address of the Medicaid member
Phone	Read only view of the phone number of the Medicaid member
Medicaid ID	The Medicaid identifier entered by the user

Action Involved

The following actions are involved with this component.

1. This page will present communication/ language that describes why the Medicaid member must perform identity verification. The following provides the text:
    a. TBD
2. ID.me will return the Medicaid member's identity information or an error response code.
3. Registration continues if the Medicaid member's identity information is returned.
4. Otherwise, the error response is displayed and the user will be directed to return to linking Medicaid at a later time.
5. The following flow describes the anticipated interaction with ID.me. At the end of the ID.me self-serve flow, the user consents to release their verified attributes (ex. UUID, name, SSN, date of birth, address, email), and these would be passed back to the Digital Registration application as a verified attribute bundle (AES-256 CBC encrypted) through an open federated identity protocols like SAML 2.0, OAuth 2.0, and OpenID Connect. Digital Registration will record the payload in Azure storage.



Component-Specific Non-Functional Requirements

1. ID.me returns a JSON object that contains the Medicaid member's identity information. This information will be stored in the CMSI database.

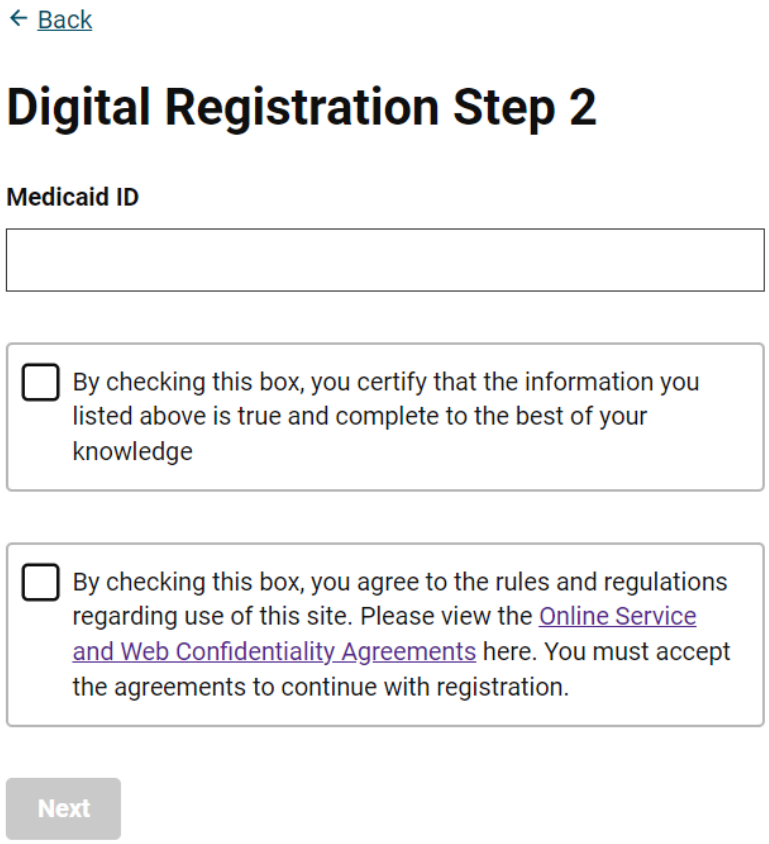
Constraints or Limitations

1. ID.me OpenID Connect Integration provides integration guidance (see Reference section of this document.

Medicaid Digital Registration - Step 2

This page presents the information returned from ID.me and presents a text box for the Medicaid member to enter their Medicaid identifier.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Launch ID.me	This button launches the ID.me identity verification process.

Action Involved

The following actions are involved with this component.

1. The Medicaid member has the option to continue with linking with Medicaid if the Medicaid member identity information is presented.
2. The Medicaid member enters their Medicaid ID.
3. If the member continues with valid member identity information presented, the system will perform a Member lookup against the MMIS data (**Query Member Identity API**).
4. The Medicaid member has the option to cancel out of the linking process.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Medicaid Digital Registration - Feed Back Response

This page shows that request has been submitted and someone will verify.

Diagram or Screen Design

TBD

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI (not displayed to user)
MEMBER_B2C_ID	UUID from the identity verification services
IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

1. Submit - enables the user to complete Medicaid linking. This action stores the Medicaid linkage data.
2. On submit, the database is updated.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Insert Member Identity API

This API adds the Medicaid member's identity information provided by identity services into the CMSI database. This API provides the call back URI for identity services to return the Medicaid member's identity information.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI.
IDME_UUID	The UUID provided by the identity verification services.

IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. The design of this API is available in Swagger.

Query Member Identity API

This API performs a member lookup against the MMIS database.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Medicaid ID	The Medicaid identifier entered by the user.
SSN	The Medicaid member's SSN as provided by identity services.
Date of Birth	The date of birth of the Medicaid member as provided by identity services.

Action Involved

The following actions are involved with this component:

1. None.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

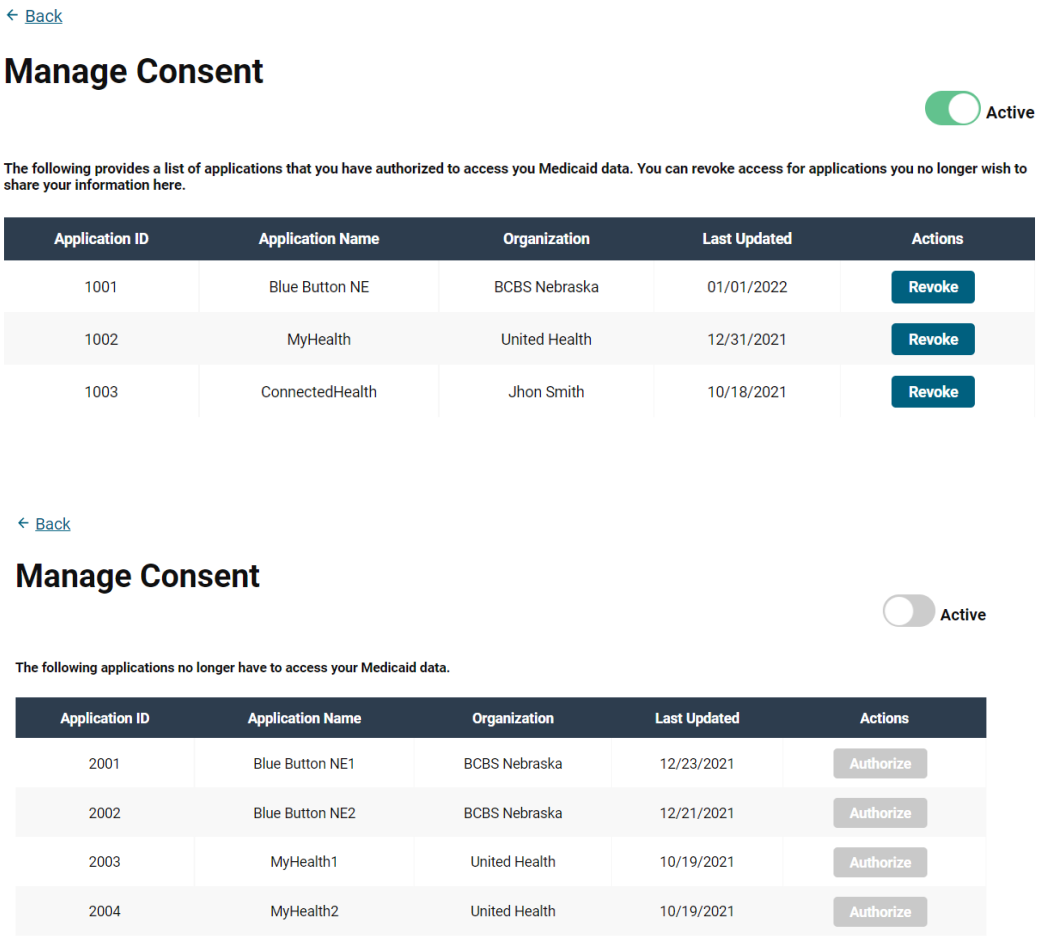
1. The design of this API is available in Swagger.

Manage Consent

Manage Consent List Page

This page will display a list of applications that the user has consented for access to the user's data via the application. Users can revoke consent from this listing of applications. The list of applications are those in production and made available for third party organizations and developers. The application registration process is managed via IBM API Connect Developer Portal.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Application ID	identifier of the application
Application Name	The name of the application
Organization	The organization providing the application
Last Updated	Last Modified Date
Actions	It is a Button for Converting Application to Active/ Inactive state

Action Involved

The following actions are involved with this component.

1. The user will be able to revoke consent of an application.
2. The user must verify revoking of consent with a second dialog box.
3. The system will retain the date / time and the user ID of the user revoking consent.

4. The user will be able to re-activate an application.
5. Active toggle button for show the active / Inactive Application Information in the table

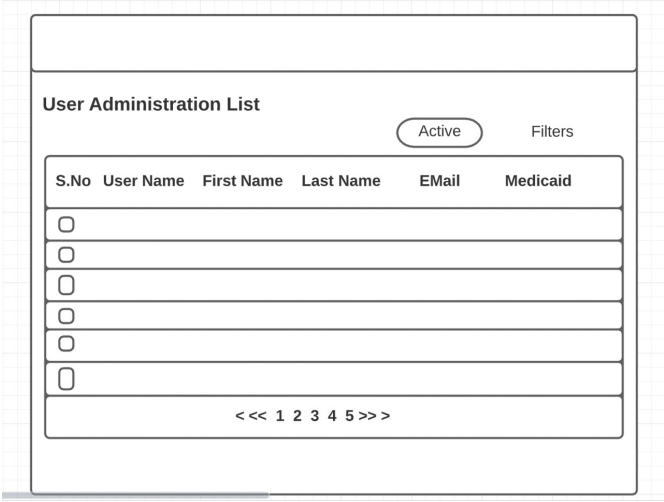
Component-Specific Non-Functional Requirements

Constraints or Limitations

User Administration - NOT PART OF MVP

User Administration List Page - NOT PART OF MVP

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS

Actions Involved

The following actions are involved with this component.

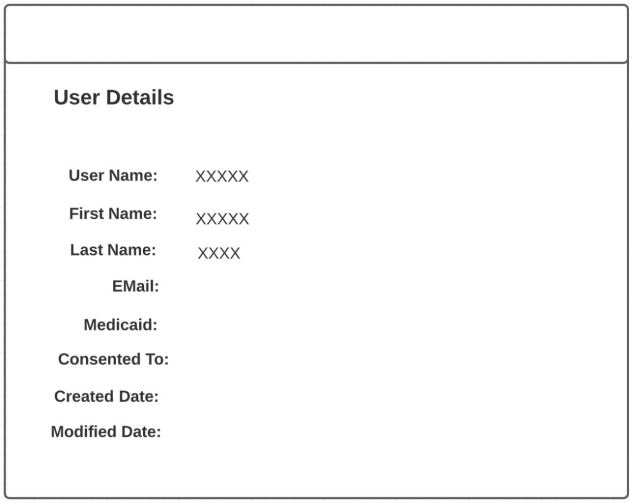
1. Show listing of users
2. Provide ability to filter user list by:
    a. Active / Inactive Status
    b. Name (search user name, first name, and last name)
    c. Medicaid Identifier
    d. Applications Consented To
3. Allow selecting of one or more users to perform bulk operations
4. Bulk operations provided:
    a. De-Activate User
    b. Delete User

Component-Specific Non-Functional Requirements

Constraints or Limitations

User Details - NOT PART OF MVP

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS
User Applications Consented To	List of applications the user has consented
Created Date	Created date of user record
Modified Date	Date when the user record was last modified

Action Involved

The following actions are involved with this component.

1. Revoke consent for a selected application
2. Set user password
3. Update user details:
    a. User Name
    b. User First Name
    c. User Last Name
    d. User Email

Component-Specific Non-Functional Requirements

1. Any change to the user record will be logged.

Constraints or Limitations

1. Medicaid Identifiers cannot be updated or removed from this component.

Non-Functional Requirements

1. None

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Scope

This document provides the design for the Web Application user log in, user registration, Medicaid digital registration, and user administration necessary to support the CMS Interoperability Project. The Web Application provides the ability for State of Nebraska public users (i.e., Medicaid Members) to register for an account and link their user account with their respective Medicaid identifiers. This is a necessary step to enable the user to use third-party provide applications to access Medicaid records. Third Party applications are not within the scope of this Web Application or the specifications provided here in.

Reference Materials and Documents

The following materials and documents are necessary for the Web Application and this design specification.

1. iServe Design Standards
2. Business to Consumer (B2C) templates
3. Application Registration Design - Application Registration Design Document
4. ID.me OIDC Integration Guide v1.1 - (located at: ID.me Files)

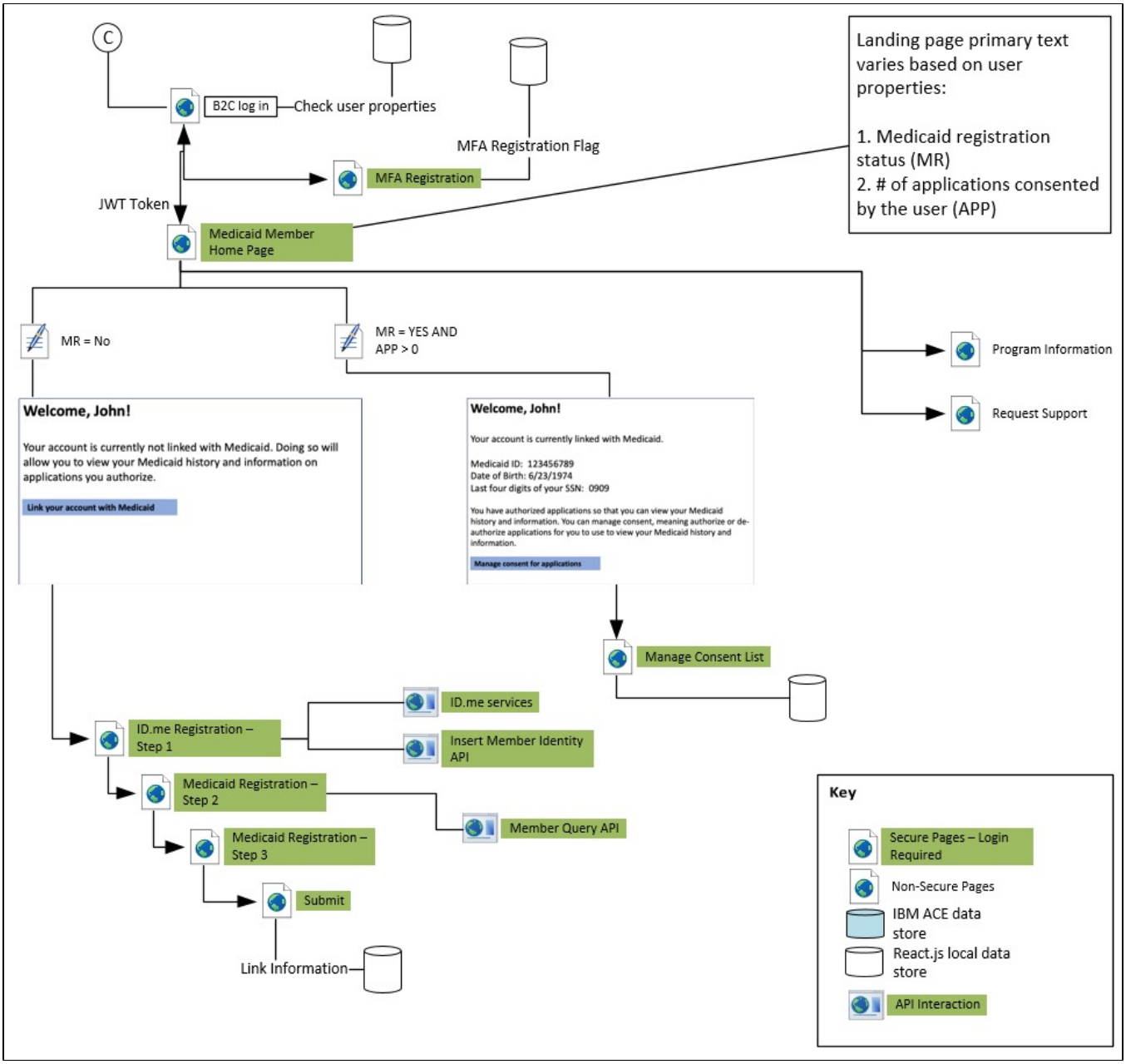
Functional Design

The following subsections provides system pages and components for the following major areas of functionality:

- Log In
- User Registration
- Medicaid Digital Registration
- User Administration

Navigation Overview

The system provides navigation for end users and administrators. The following provides the overall navigation flow for **User Registration**.



Actors or Personas Involved

Actor	Description
Non Registered User	A Medicaid member who has not yet registered with the State's B2C process.
Registered User	A Medicaid member who has registered with the State's B2C process.
MMIS	Enables lookup of user for the purpose of linking the user registration with Medicaid.
Identity Proofing	Verifies the user is identified using an outsourced service provided by ID.me
Multi-Factor Authentication	Requires user to log in with additional data using an outsourced service.
Administrators	Manages users and application consent for users.

System Pages or Components

The following subsections provides system pages and components for the following major areas of functionality:

- Sign In / Sign Up
- Medicaid Digital Registration
- Manage Consent
- Administration

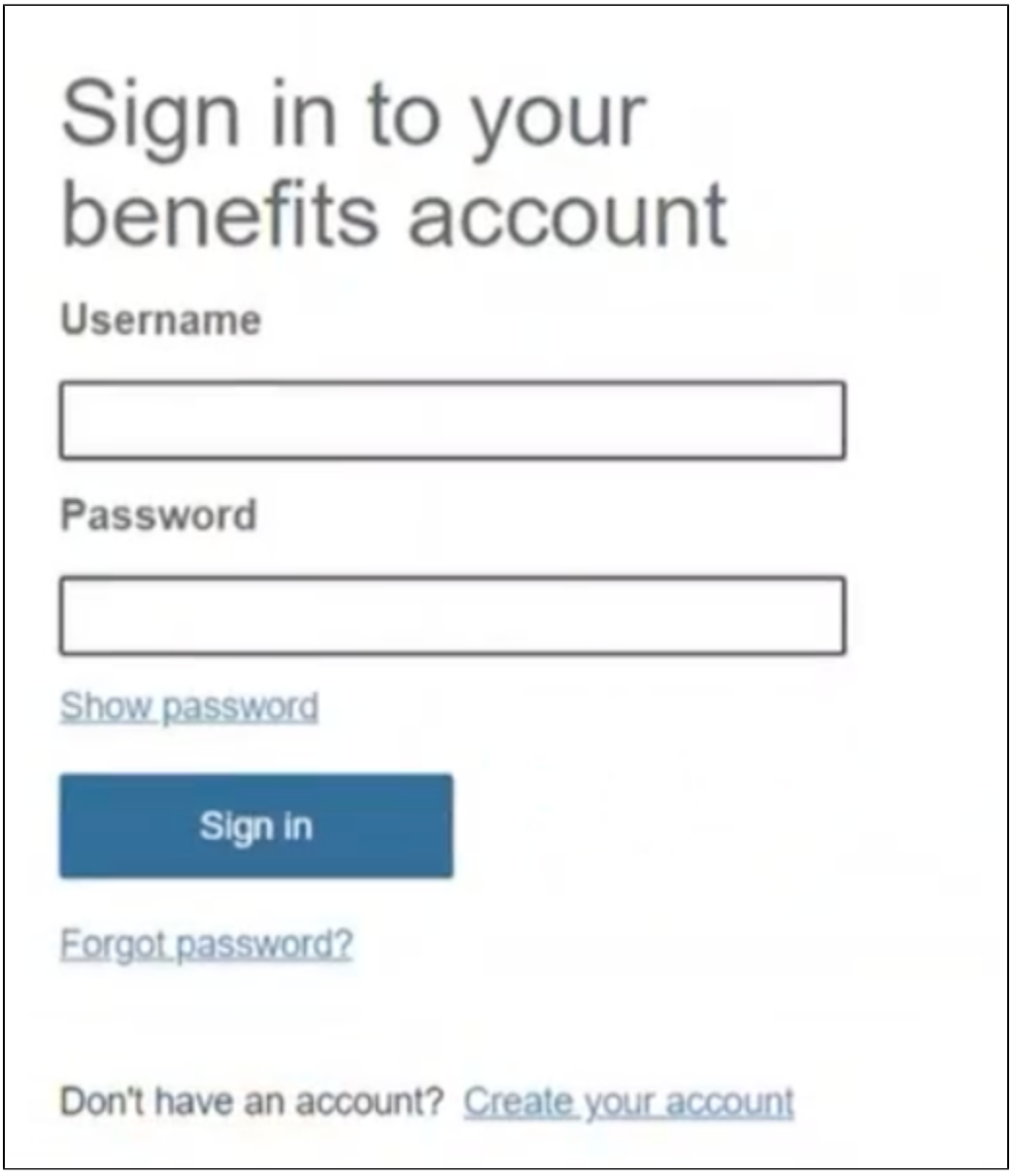
Sign In / Sign Up

Sign In / Sign Up is conducted by the DHHS Business to Consumer (B2C) Azure functionality.

B2C Sign In

This page enables the Medicaid user to sign into their B2C account.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	It is text field and it is mandatory field

Password	It is password field and it is mandatory field
Sign In	Performs Sign In of the user against the B2C database
Create Your Account	Enables Medicaid members to sign up.

Action Involved

The following actions are involved with this component:

1. Sign In to authenticate the Medicaid member

Component-Specific Non-Functional Requirements

1. None.

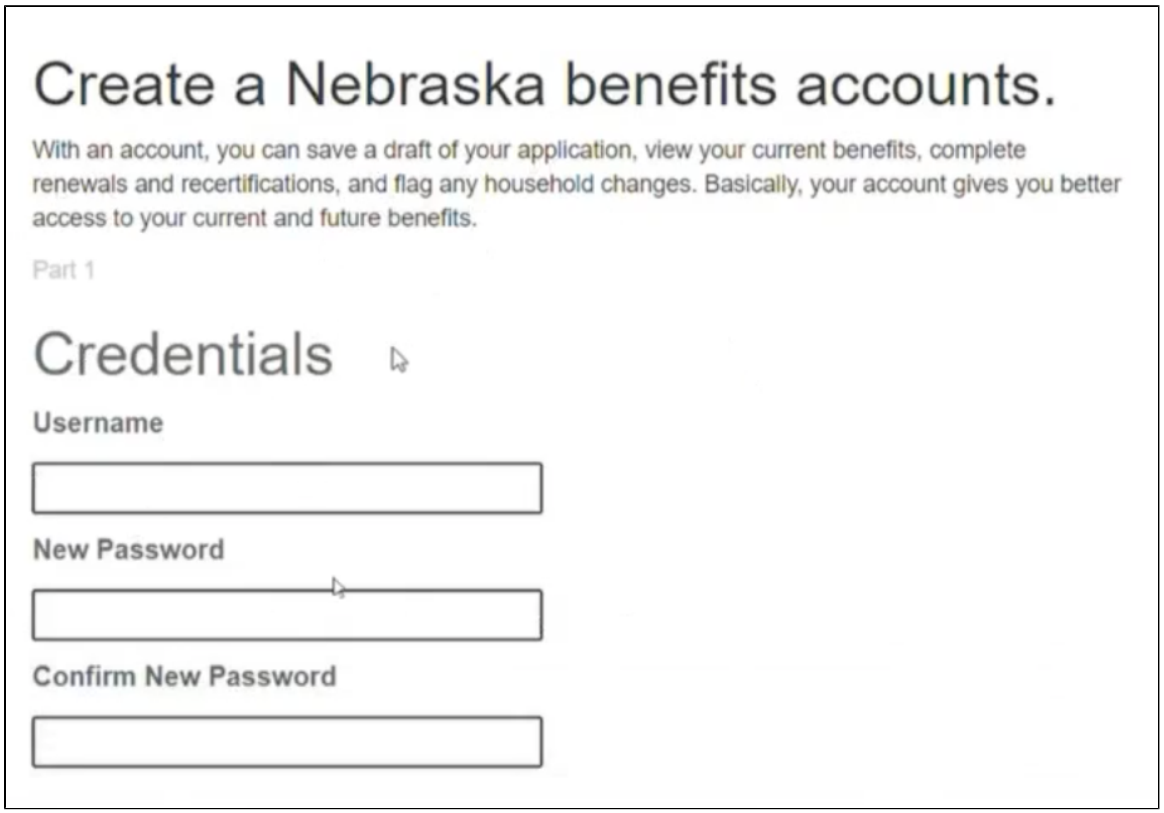
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Sign Up

The Sign Up process leverages DHHS B2C capability to enable Medicaid members to sign up for an account. Account information is shared with iServe Sign Up.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	The user name for the Medicaid member.
Password	User entered password.

Action Involved

The following actions are involved with this component:

1. This is the first of three steps to creating a user account.
2. User name must be unique.

Component-Specific Non-Functional Requirements

1. None.

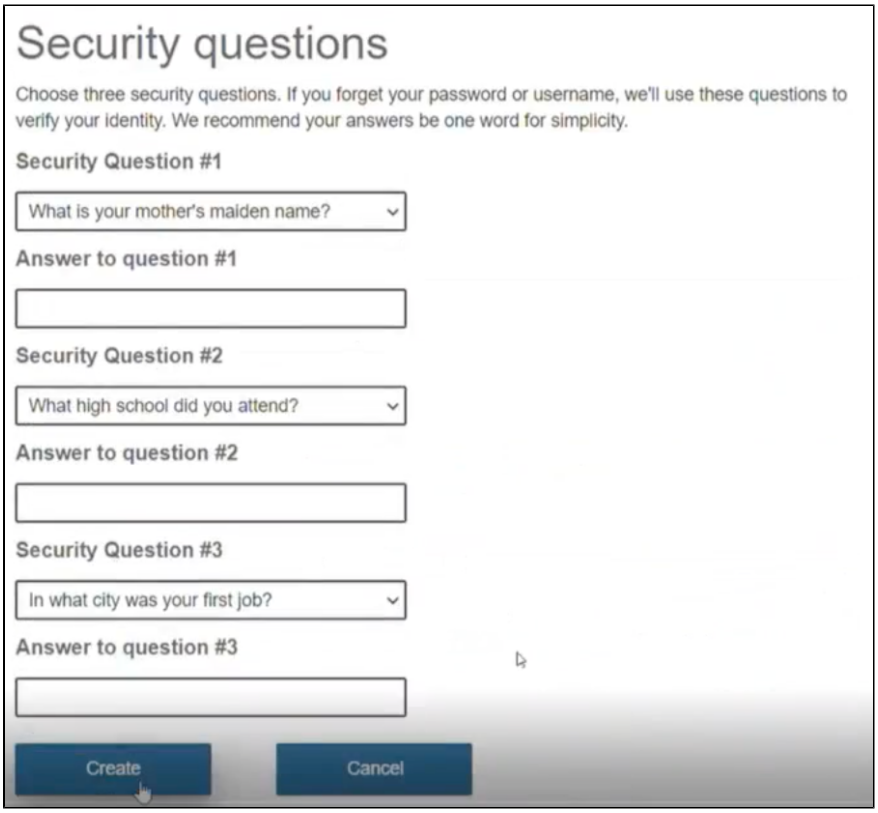
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Security Questions

This page provides three security questions that are used to recover the Medicaid member's account access (i.e., forgotten password).

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Security Questions 1 to 3	Enables the Medicaid member to select answers to three questions.

Action Involved

The following actions are involved with this component:

1. This is the second of three steps to creating a user account.
2. Create user account. Duplicate user accounts are not allows.
3. Cancel to stop the account creation process.

Component-Specific Non-Functional Requirements

1. None

Constraints or Limitations

1. None.

B2C Multi-Factor Authentication

Multi-Factor Authentication (MFA) is required as a first step to linking a Medicaid member's record. This page enables the user to setup MFA. MFA provides an extra layer of security in case the Medicaid member attempts to log in the first time or from a different device.

Diagram or Screen Design

TBD

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MFA Method	The user selects
MFA Data Entry	Mobile phone number or email address to use for MFA verification.
MEMBER_MFAREGISTERED_IND	Stores the MFA registration flag.

Action Involved

The following actions are involved with this component:

1. This is the third of three steps to creating a user account.
2. The Medicaid member selects the method by which they will perform MFA. Typically, this will be a mobile number or email address.
3. The Medicaid member will be prompted a dialog box to turn on MFA.
4. The Medicaid member will be prompted to conduct MFA on first log on or if the Medicaid member is conducting log in from an unrecognized device.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. The Azure B2C capability will be extended to add MFA verification. MFA is not used by iServe.
2. The exact MFA methods available will depend on the Azure B2C configuration supported by DHHS.

Medicaid Member Home Page

This page provides the home page for Medicaid members. This page can be published as a standalone page and published as a part of the DHHS Member communications process. It can also be launched from the CMS Interoperabilty Home Page (see App Registration Design).

Diagram or Screen Design

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
None	

Action Involved

The following actions are involved with this component.

1. Sign In - Invokes the Sign In process (**Sign In Page** opens).
2. Sign Up - Invokes the Sign Up process (**Sign Up Page** opens).
3. Once the Medicaid member signs in, this page displays text above the tiles based on user properties:
    a. Medicaid registration status (MR)
    b. # of applications consented by the user (APP)
4. If MR = 0
    a. Text = "Your account is currently not linked with Medicaid. Doing so will allow you to view your Medicaid history and information on applications you authorize. "
    b. Button label = "Link your account with Medicaid". This button opens the **Medicaid Digital Registration - Step 1 Page**.
5. If MR > 0 and APP > 0
    a. Text = "Your account is linked with Medicaid. You have authorized applications so that you can view your Medicaid history and information. You can manage consent, meaning authorize or de-authorize applications for you to use to view your Medicaid history and information."
    b. Button label = "Manage consent for applications"
6. Link My Medicaid Account - enables the Medicaid member to link their B2C account with Medicaid (MMIS). By clicking on this tile, the **Medicaid Digital Registration - Step 1 Page** opens.
7. Documentation - view publicly documentation relevant to CMS Interoperability and other guides. NOT PART OF MVP

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Medicaid Digital Registration

ID.me Registration - Step 1

This page enables the user to begin the process of to launch the identity verification service provided by the DHHS selected identity provider, ID.me.

Diagram or Screen Design

TBD

Data Elements Involved

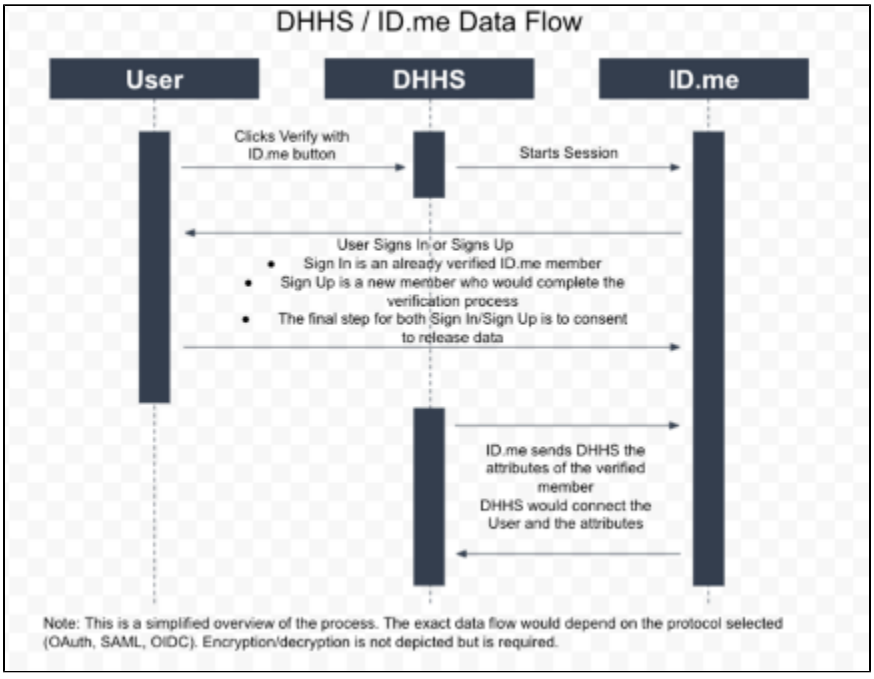
The following data elements are involved with this component.

Data Element	Description
Launch ID.me	This button launches the ID.me identity verification process.

Action Involved

The following actions are involved with this component.

1. This page will present communication/ language that describes why the Medicaid member must perform identity verification. The following provides the text:
    a. TBD
2. ID.me will return the Medicaid member's identity information or an error response code.
3. Registration continues if the Medicaid member's identity information is returned.
4. Otherwise, the error response is displayed and the user will be directed to return to linking Medicaid at a later time.
5. The following flow describes the anticipated interaction with ID.me. At the end of the ID.me self-serve flow, the user consents to release their verified attributes (ex. UUID, name, SSN, date of birth, address, email), and these would be passed back to the Digital Registration application as a verified attribute bundle (AES-256 CBC encrypted) through an open federated identity protocols like SAML 2.0, OAuth 2.0, and OpenID Connect. Digital Registration will record the payload in Azure storage.



Component-Specific Non-Functional Requirements

1. ID.me returns a JSON object that contains the Medicaid member's identity information. This information will be stored in the CMSI database.

Constraints or Limitations

1. ID.me OpenID Connect Integration provides integration guidance (see Reference section of this document.

Medicaid Digital Registration - Step 2

This page presents the information returned from ID.me and presents a text box for the Medicaid member to enter their Medicaid identifier.

Diagram or Screen Design

TBD

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
UUID	Unique identifier from ID.me (not viewed on page)
Email	Read only view of the email address
First Name	Read only view of the first name of the Medicaid member
Middle Name	Read only view of the middle name of the Medicaid member
Last Name	Read only view of the last name of the Medicaid member
Birth Date	Read only view of the date of birth of the Medicaid member
Social Security Number	Read only view of the SSN of the Medicaid member
Address	Read only view of the address of the Medicaid member
Phone	Read only view of the phone number of the Medicaid member
Medicaid ID	The Medicaid identifier entered by the user

Action Involved

The following actions are involved with this component.

1. The Medicaid member has the option to continue with linking with Medicaid if the Medicaid member identity information is presented.
2. The Medicaid member enters their Medicaid ID.
3. If the member continues with valid member identity information presented, the system will perform a Member lookup against the MMIS data (**Query Member Identity API**).
4. The Medicaid member has the option to cancel out of the linking process.

Component-Specific Non-Functional Requirements

1. None.

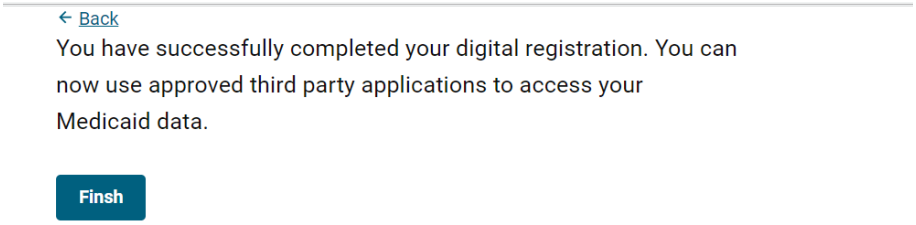
Constraints or Limitations

1. None.

Medicaid Digital Registration - Feed Back Page

This page presents the feed back to the user saying that their request will be reviewed and a decision will be communicated.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI (not displayed to user)
MEMBER_B2C_ID	UUID from the identity verification services
IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

1. Submit - enables the user to complete Medicaid linking. This action stores the Medicaid linkage data.
2. On submit, the database is updated.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Insert Member Identity API

This API adds the Medicaid member's identity information provided by identity services into the CMSI database. This API provides the call back URI for identity services to return the Medicaid member's identity information.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI.
IDME_UUID	The UUID provided by the identity verification services.
IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. The design of this API is available in Swagger.

Query Member Identity API

This API performs a member lookup against the MMIS database.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Medicaid ID	The Medicaid identifier entered by the user.
SSN	The Medicaid member's SSN as provided by identity services.
Date of Birth	The date of birth of the Medicaid member as provided by identity services.

Action Involved

The following actions are involved with this component:

1. None.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

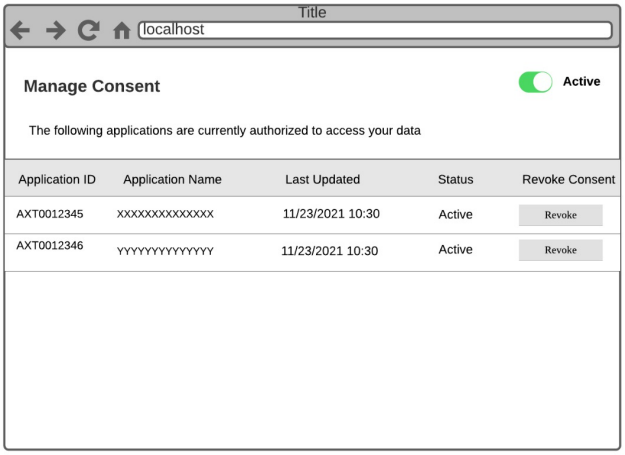
1. The design of this API is available in Swagger.

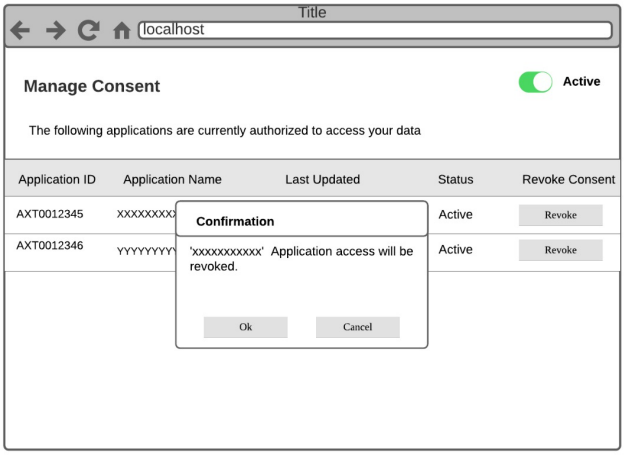
Manage Consent

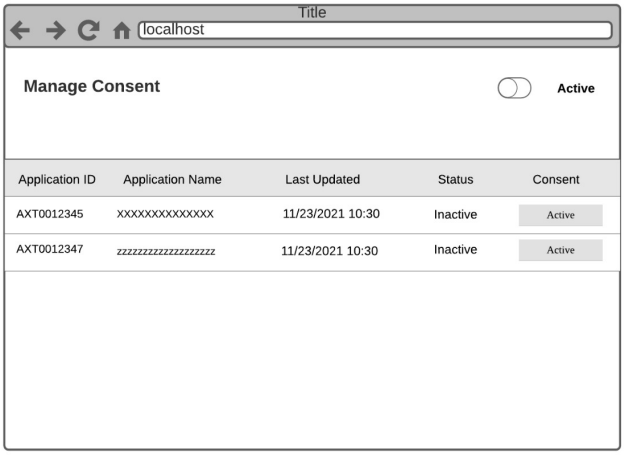
Manage Consent List Page

This page will display a list of applications that the user has consented for access to the user's data via the application. Users can revoke consent from this listing of applications. The list of applications are those in production and made available for third party organizations and developers. The application registration process is managed via IBM API Connect Developer Portal.

Diagram or Screen Design







Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Application ID	identifier of the application
Application Name	The name of the application
Organization	The organization providing the application

Action Involved

The following actions are involved with this component.

1. The user will be able to revoke consent of an application.
2. The user must verify revoking of consent with a second dialog box.
3. The system will retain the date / time and the user ID of the user revoking consent.
4. The user will be able to re-activate an application.

Component-Specific Non-Functional Requirements

Constraints or Limitations

User Administration - NOT PART OF MVP

User Administration List Page - NOT PART OF MVP

Diagram or Screen Design

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS

Actions Involved

The following actions are involved with this component.

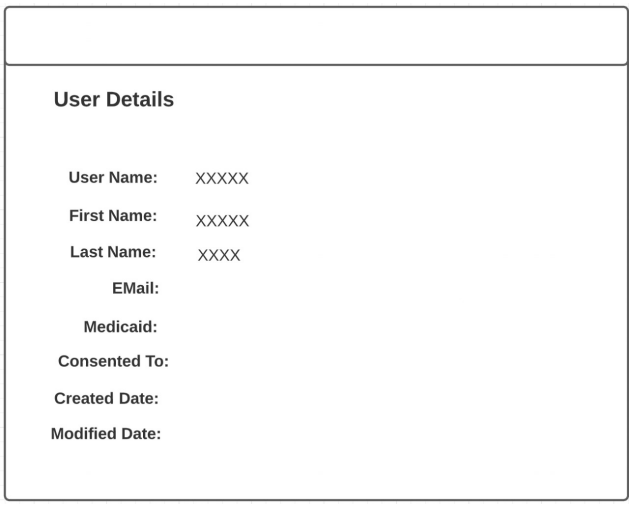
1. Show listing of users
2. Provide ability to filter user list by:
    a. Active / Inactive Status
    b. Name (search user name, first name, and last name)
    c. Medicaid Identifier
    d. Applications Consented To
3. Allow selecting of one or more users to perform bulk operations
4. Bulk operations provided:
    a. De-Activate User
    b. Delete User

Component-Specific Non-Functional Requirements

Constraints or Limitations

User Details - NOT PART OF MVP

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS
User Applications Consented To	List of applications the user has consented
Created Date	Created date of user record
Modified Date	Date when the user record was last modified

Action Involved

The following actions are involved with this component.

1. Revoke consent for a selected application
2. Set user password
3. Update user details:
    a. User Name
    b. User First Name
    c. User Last Name
    d. User Email

Component-Specific Non-Functional Requirements

1. Any change to the user record will be logged.

Constraints or Limitations

1. Medicaid Identifiers cannot be updated or removed from this component.

Non-Functional Requirements

1. None

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Scope

This document provides the design for the Web Application user log in, user registration, Medicaid digital registration, and user administration necessary to support the CMS Interoperability Project. The Web Application provides the ability for State of Nebraska public users (i.e., Medicaid Members) to register for an account and link their user account with their respective Medicaid identifiers. This is a necessary step to enable the user to use third-party provide applications to access Medicaid records. Third Party applications are not within the scope of this Web Application or the specifications provided here in.

Reference Materials and Documents

The following materials and documents are necessary for the Web Application and this design specification.

1. iServe Design Standards
2. Business to Consumer (B2C) templates
3. Application Registration Design - Application Registration Design Document
4. ID.me OIDC Integration Guide v1.1 - (located at: ID.me Files)

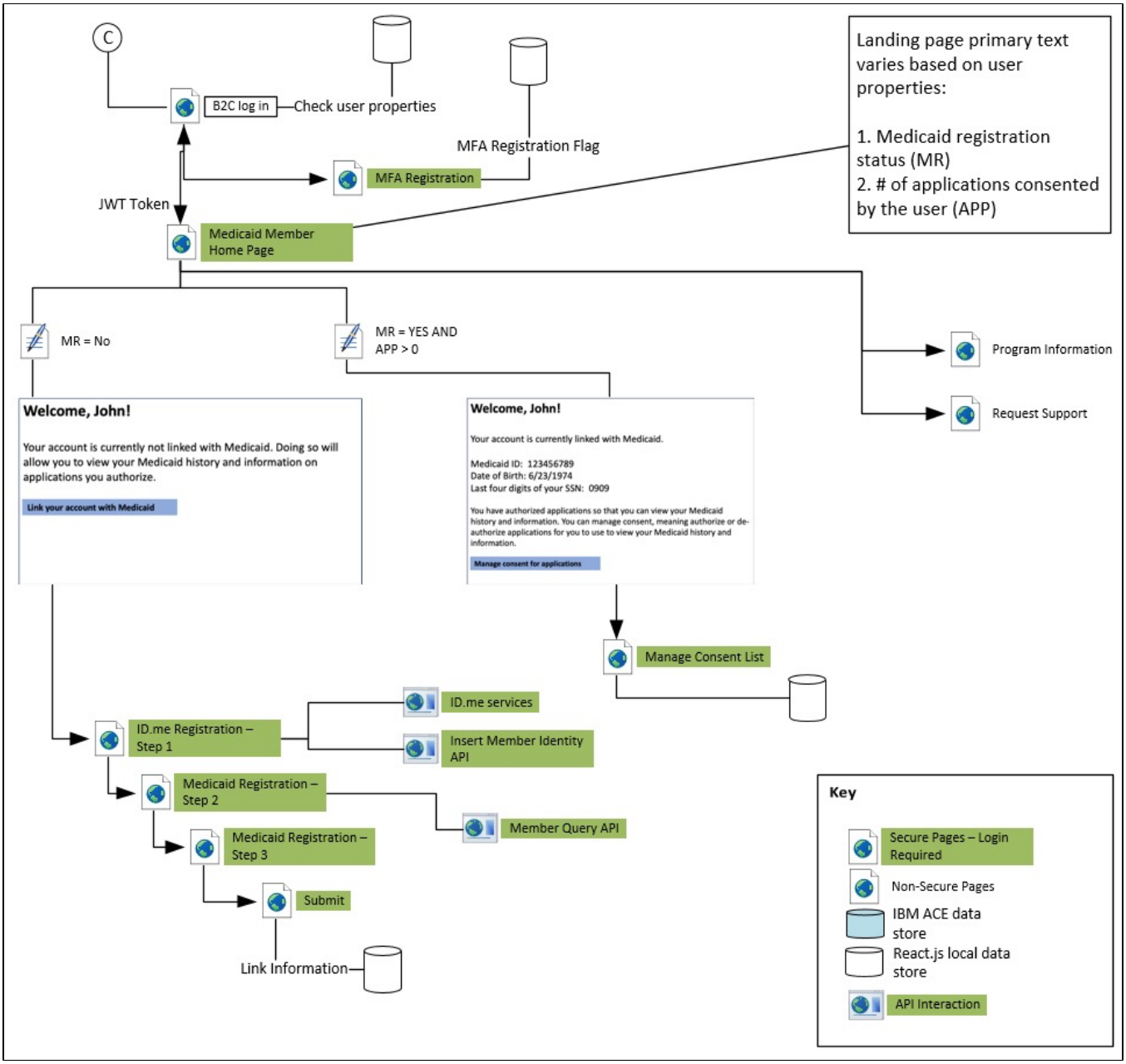
Functional Design

The following subsections provides system pages and components for the following major areas of functionality:

- Log In
- User Registration
- Medicaid Digital Registration
- User Administration

Navigation Overview

The system provides navigation for end users and administrators. The following provides the overall navigation flow for **User Registration**.



Actors or Personas Involved

Actor	Description
Non Registered User	A Medicaid member who has not yet registered with the State's B2C process.
Registered User	A Medicaid member who has registered with the State's B2C process.
MMIS	Enables lookup of user for the purpose of linking the user registration with Medicaid.
Identity Proofing	Verifies the user is identified using an outsourced service provided by ID.me
Multi-Factor Authentication	Requires user to log in with additional data using an outsourced service.
Administrators	Manages users and application consent for users.

System Pages or Components

The following subsections provides system pages and components for the following major areas of functionality:

- Sign In / Sign Up
- Medicaid Digital Registration
- Manage Consent
- Administration

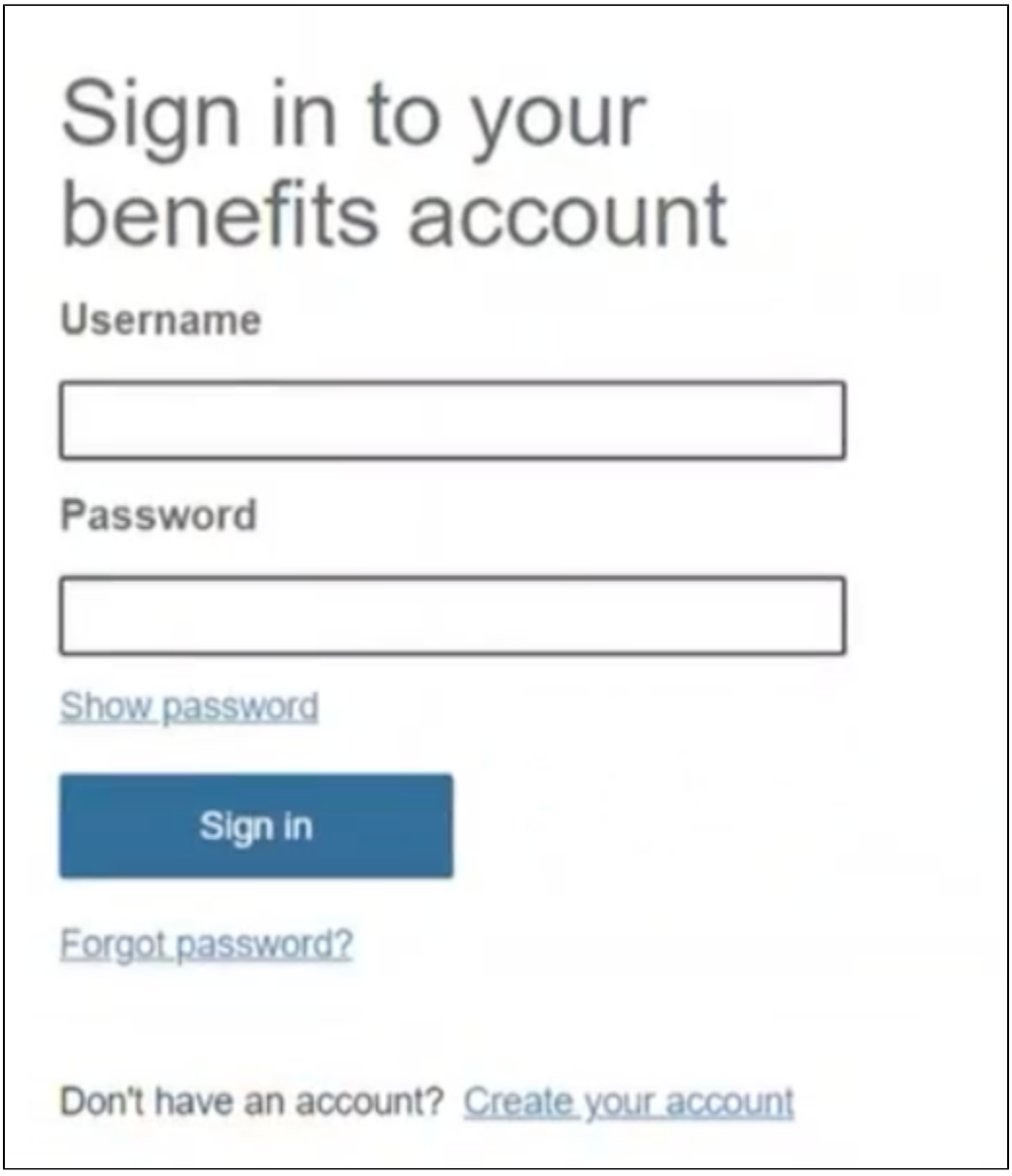
Sign In / Sign Up

Sign In / Sign Up is conducted by the DHHS Business to Consumer (B2C) Azure functionality.

B2C Sign In

This page enables the Medicaid user to sign into their B2C account.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	It is text field and it is mandatory field

Password	It is password field and it is mandatory field
Sign In	Performs Sign In of the user against the B2C database
Create Your Account	Enables Medicaid members to sign up.

Action Involved

The following actions are involved with this component:

1. Sign In to authenticate the Medicaid member

Component-Specific Non-Functional Requirements

1. None.

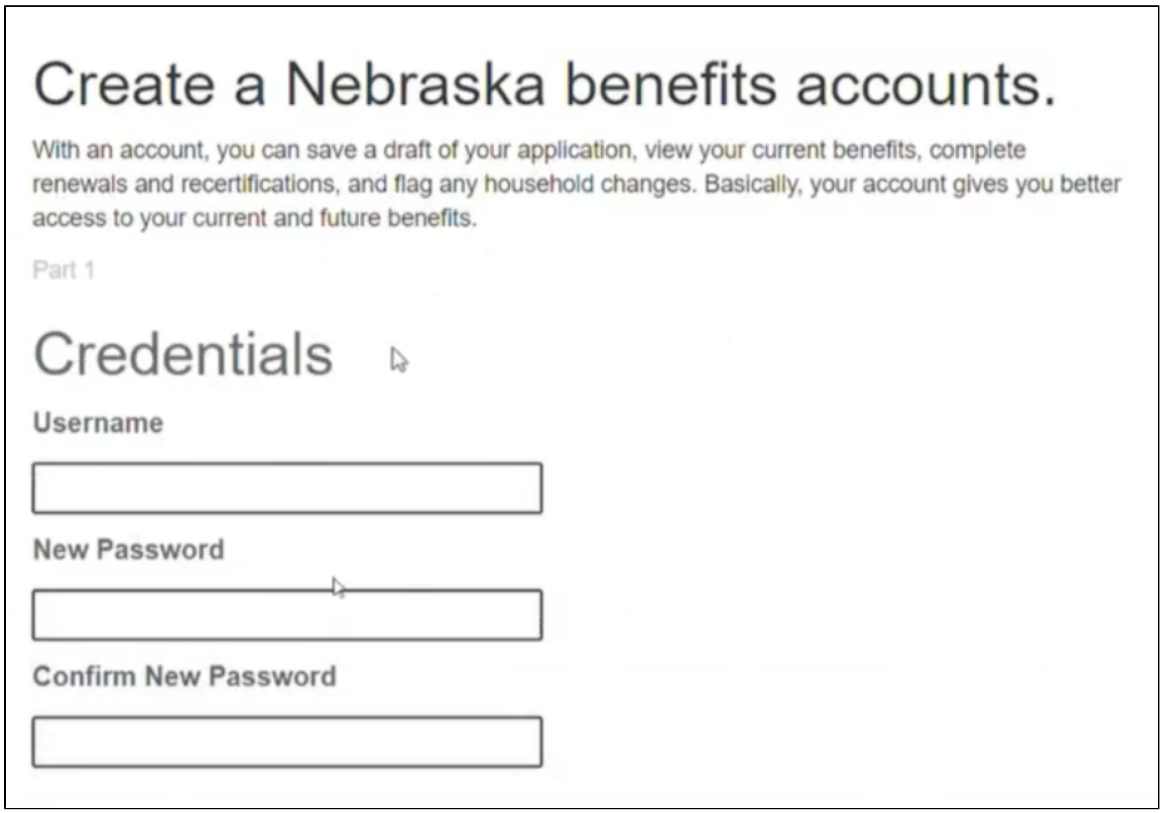
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Sign Up

The Sign Up process leverages DHHS B2C capability to enable Medicaid members to sign up for an account. Account information is shared with iServe Sign Up.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	The user name for the Medicaid member.
Password	User entered password.

Action Involved

The following actions are involved with this component:

1. This is the first of three steps to creating a user account.
2. User name must be unique.

Component-Specific Non-Functional Requirements

1. None.

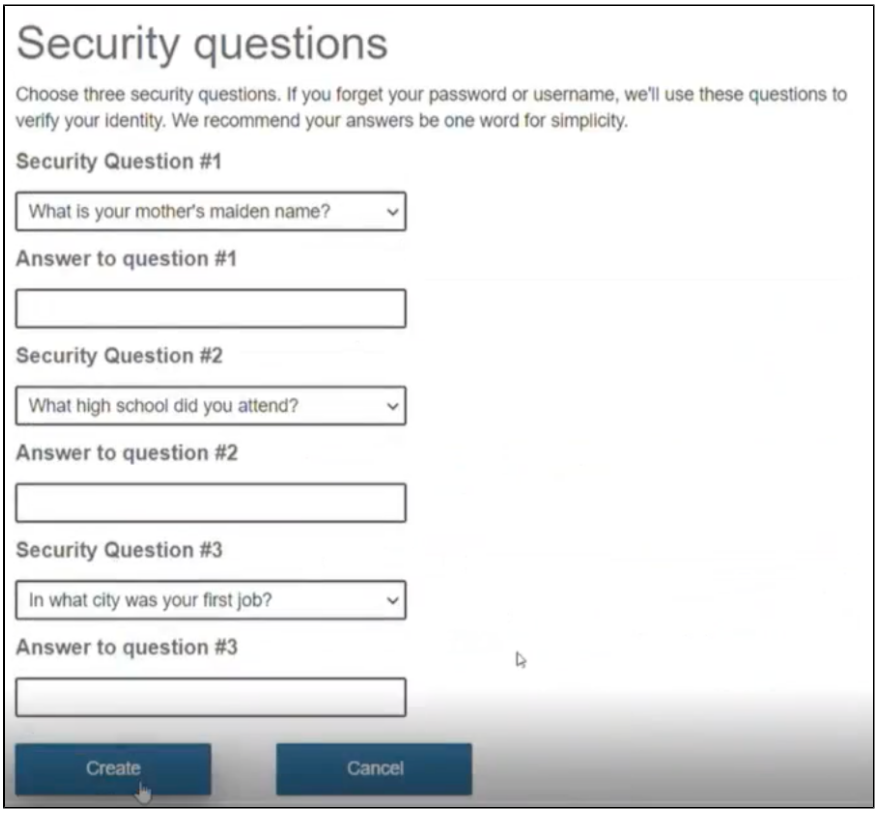
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Security Questions

This page provides three security questions that are used to recover the Medicaid member's account access (i.e., forgotten password).

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Security Questions 1 to 3	Enables the Medicaid member to select answers to three questions.

Action Involved

The following actions are involved with this component:

1. This is the second of three steps to creating a user account.
2. Create user account. Duplicate user accounts are not allows.
3. Cancel to stop the account creation process.

Component-Specific Non-Functional Requirements

1. None

Constraints or Limitations

1. None.

B2C Multi-Factor Authentication

Multi-Factor Authentication (MFA) is required as a first step to linking a Medicaid member's record. This page enables the user to setup MFA. MFA provides an extra layer of security in case the Medicaid member attempts to log in the first time or from a different device.

Diagram or Screen Design

TBD

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MFA Method	The user selects
MFA Data Entry	Mobile phone number or email address to use for MFA verification.
MEMBER_MFAREGISTERED_IND	Stores the MFA registration flag.

Action Involved

The following actions are involved with this component:

1. This is the third of three steps to creating a user account.
2. The Medicaid member selects the method by which they will perform MFA. Typically, this will be a mobile number or email address.
3. The Medicaid member will be prompted a dialog box to turn on MFA.
4. The Medicaid member will be prompted to conduct MFA on first log on or if the Medicaid member is conducting log in from an unrecognized device.

Component-Specific Non-Functional Requirements

1. None.

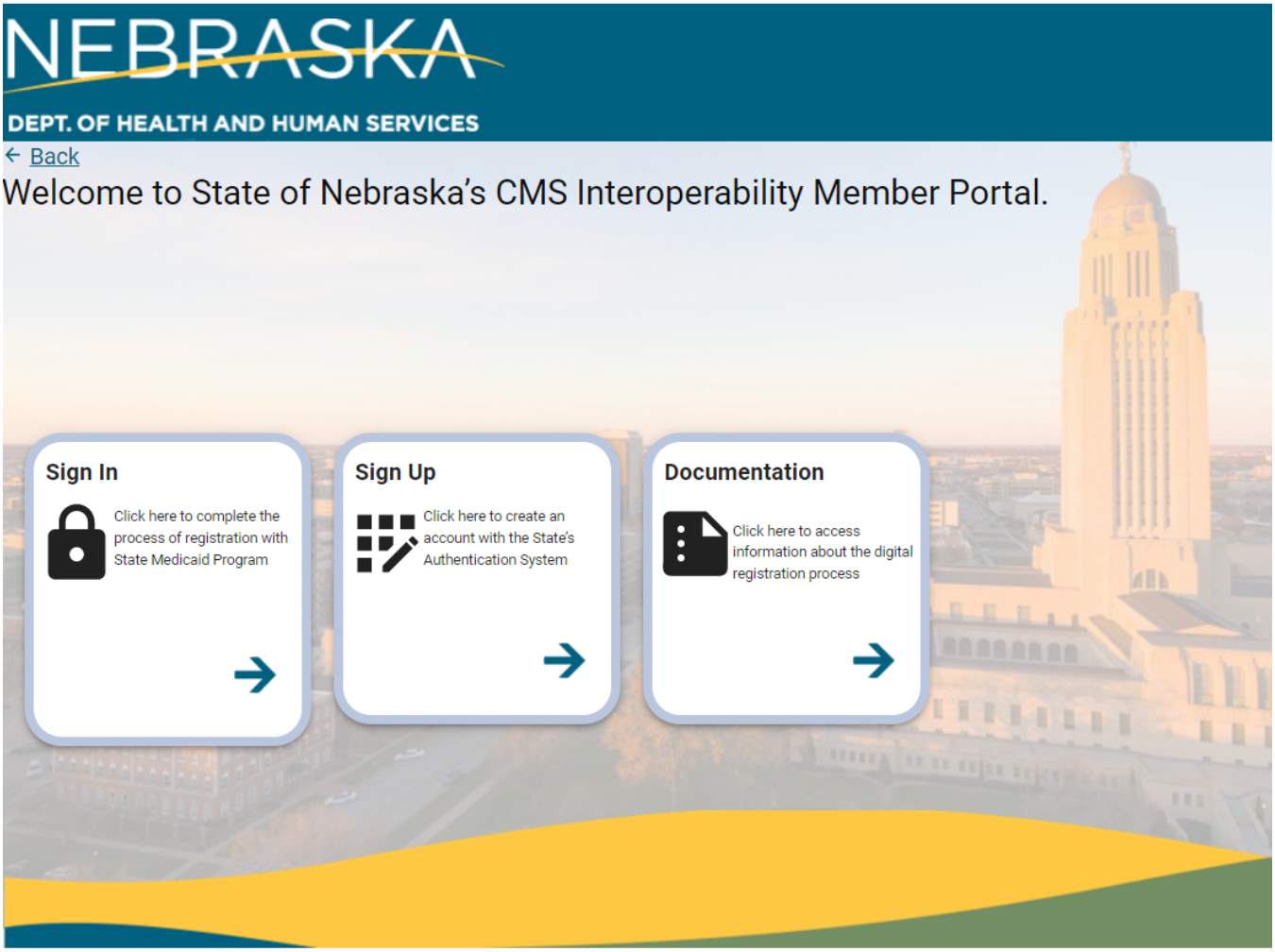
Constraints or Limitations

1. The Azure B2C capability will be extended to add MFA verification. MFA is not used by iServe.
2. The exact MFA methods available will depend on the Azure B2C configuration supported by DHHS.

Medicaid Member Home Page

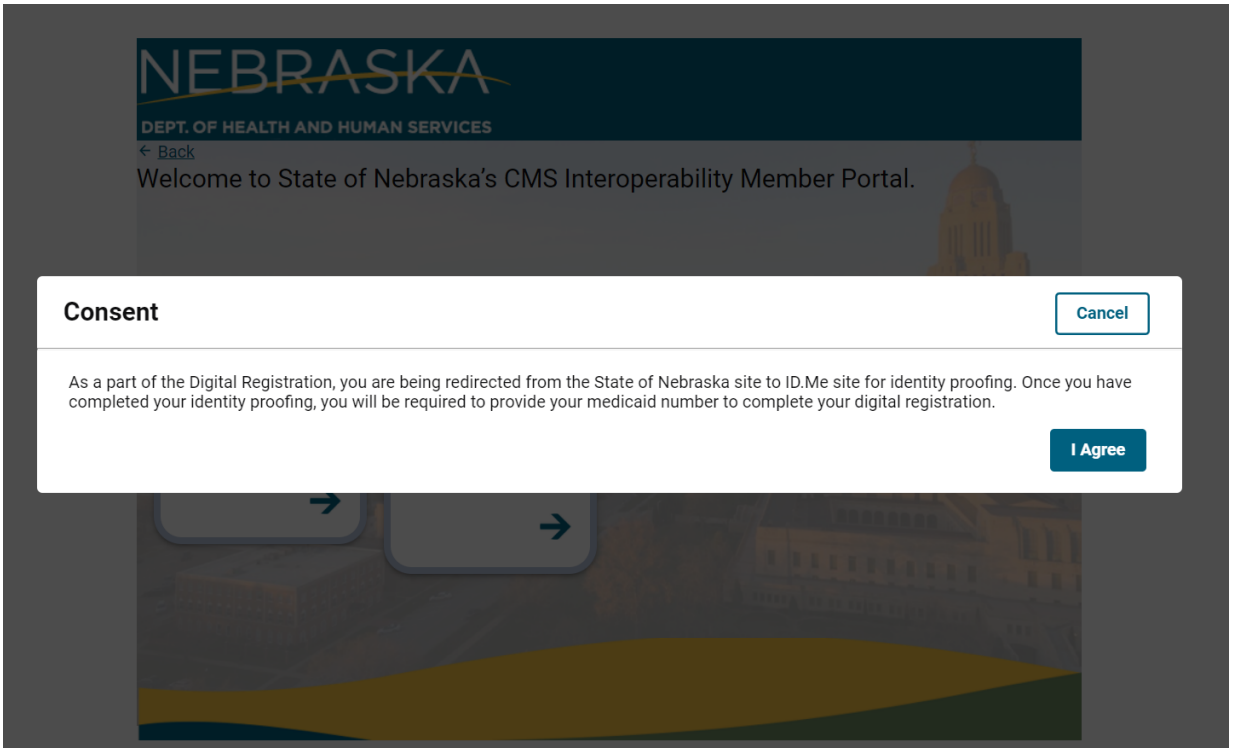
This page provides the home page for Medicaid members. This page can be published as a standalone page and published as a part of the DHHS Member communications process. It can also be launched from the CMS Interoperability Home Page (see **App Registration Design**).

Diagram or Screen Design



When the user successfully Sign In below screen is shown giving them a option to do a Digital registration

When the user click on the Digital Registration then have to read our T&C , if they accept we will allow them to for Digital Registration



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
None	

Action Involved

The following actions are involved with this component.

1. Sign In - Invokes the Sign In process (**Sign In Page** opens).
2. Sign Up - Invokes the Sign Up process (**Sign Up Page** opens).
3. Once the Medicaid member signs in, this page displays text above the tiles based on user properties:
    a. Medicaid registration status (MR)
    b. # of applications consented by the user (APP)
4. If MR = 0
    a. Text = "Your account is currently not linked with Medicaid. Doing so will allow you to view your Medicaid history and information on applications you authorize. "
    b. Button label = "Link your account with Medicaid". This button opens the **Medicaid Digital Registration - Step 1 Page**.
5. If MR > 0 and APP > 0
    a. Text = "Your account is linked with Medicaid. You have authorized applications so that you can view your Medicaid history and information. You can manage consent, meaning authorize or de-authorize applications for you to use to view your Medicaid history and information."
    b. Button label = "Manage consent for applications"
6. Link My Medicaid Account - enables the Medicaid member to link their B2C account with Medicaid (MMIS). By clicking on this tile, the **Medicaid Digital Registration - Step 1 Page** opens.
7. Documentation - view publicly documentation relevant to CMS Interoperability and other guides. NOT PART OF MVP

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

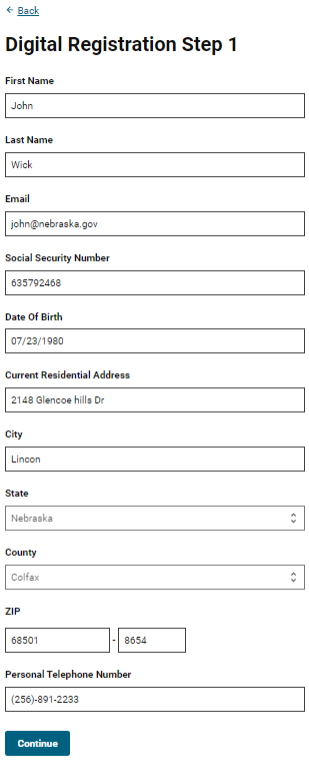
1. None.

Medicaid Digital Registration

ID.me Registration - Step 1

This page enables the user to begin the process of to launch the identity verification service provided by the DHHS selected identity provider, ID.me. (This will be an ID.me webpage where user validates with ID.me). We will show the info we get back from ID.me to the User so they can confirm and move further.

Diagram or Screen Design



Data Elements Involved

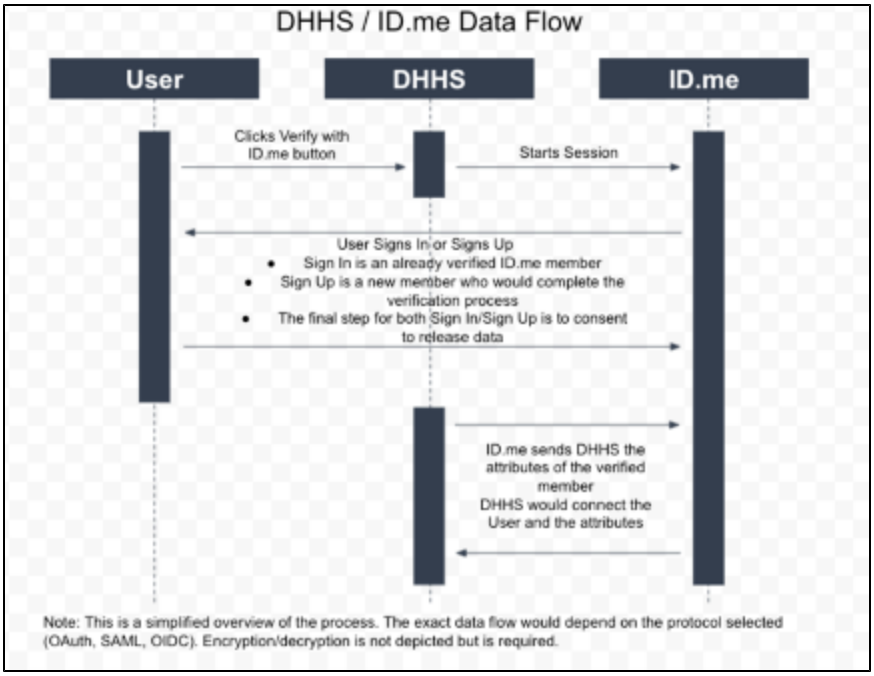
The following data elements are involved with this component.

Data Element	Description
Launch ID.me	This button launches the ID.me identity verification process.

Action Involved

The following actions are involved with this component.

1. This page will present communication/ language that describes why the Medicaid member must perform identity verification. The following provides the text:
    a. TBD
2. ID.me will return the Medicaid member's identity information or an error response code.
3. Registration continues if the Medicaid member's identity information is returned.
4. Otherwise, the error response is displayed and the user will be directed to return to linking Medicaid at a later time.
5. The following flow describes the anticipated interaction with ID.me. At the end of the ID.me self-serve flow, the user consents to release their verified attributes (ex. UUID, name, SSN, date of birth, address, email), and these would be passed back to the Digital Registration application as a verified attribute bundle (AES-256 CBC encrypted) through an open federated identity protocols like SAML 2.0, OAuth 2.0, and OpenID Connect. Digital Registration will record the payload in Azure storage.



Component-Specific Non-Functional Requirements

1. ID.me returns a JSON object that contains the Medicaid member's identity information. This information will be stored in the CMSI database.

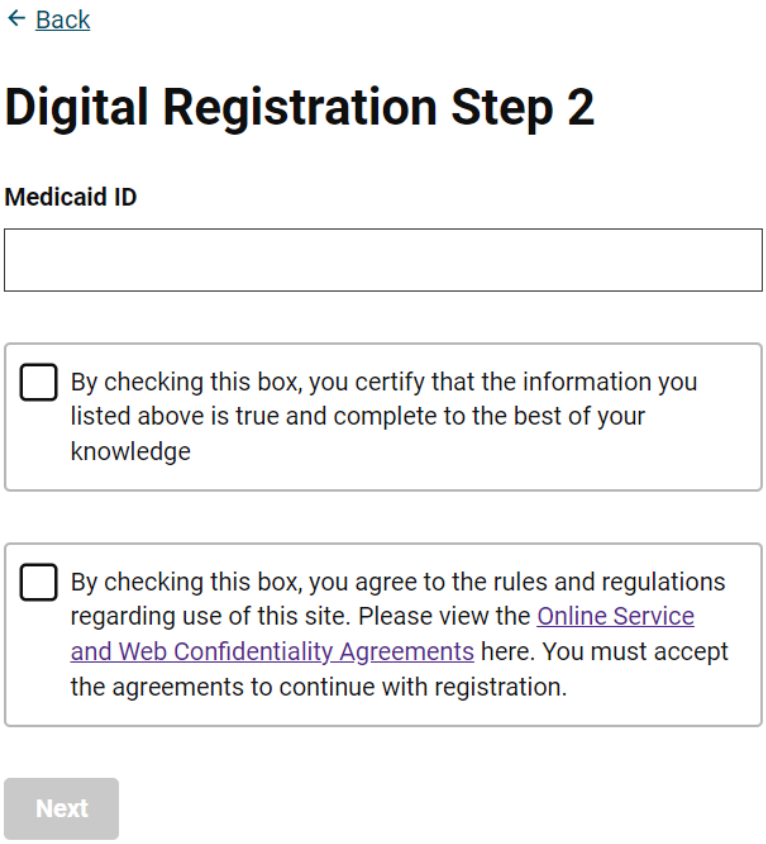
Constraints or Limitations

1. ID.me OpenID Connect Integration provides integration guidance (see Reference section of this document.

Medicaid Digital Registration - Step 2

This page presents the information returned from ID.me and presents a text box for the Medicaid member to enter their Medicaid identifier.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
UUID	Unique identifier from ID.me (not viewed on page)
Email	Read only view of the email address
First Name	Read only view of the first name of the Medicaid member
Middle Name	Read only view of the middle name of the Medicaid member
Last Name	Read only view of the last name of the Medicaid member
Birth Date	Read only view of the date of birth of the Medicaid member
Social Security Number	Read only view of the SSN of the Medicaid member
Address	Read only view of the address of the Medicaid member
Phone	Read only view of the phone number of the Medicaid member
Medicaid ID	The Medicaid identifier entered by the user

Action Involved

The following actions are involved with this component.

1. The Medicaid member has the option to continue with linking with Medicaid if the Medicaid member identity information is presented.
2. The Medicaid member enters their Medicaid ID.
3. If the member continues with valid member identity information presented, the system will perform a Member lookup against the MMIS data (**Query Member Identity API**).
4. The Medicaid member has the option to cancel out of the linking process.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Medicaid Digital Registration - Feed Back Response

This page shows that request has been submitted and someone will verify.

Diagram or Screen Design

TBD

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI (not displayed to user)
MEMBER_B2C_ID	UUID from the identity verification services
IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

1. Submit - enables the user to complete Medicaid linking. This action stores the Medicaid linkage data.
2. On submit, the database is updated.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Insert Member Identity API

This API adds the Medicaid member's identity information provided by identity services into the CMSI database. This API provides the call back URI for identity services to return the Medicaid member's identity information.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI.
IDME_UUID	The UUID provided by the identity verification services.
IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. The design of this API is available in Swagger.

Query Member Identity API

This API performs a member lookup against the MMIS database.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Medicaid ID	The Medicaid identifier entered by the user.
SSN	The Medicaid member's SSN as provided by identity services.
Date of Birth	The date of birth of the Medicaid member as provided by identity services.

Action Involved

The following actions are involved with this component:

1. None.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

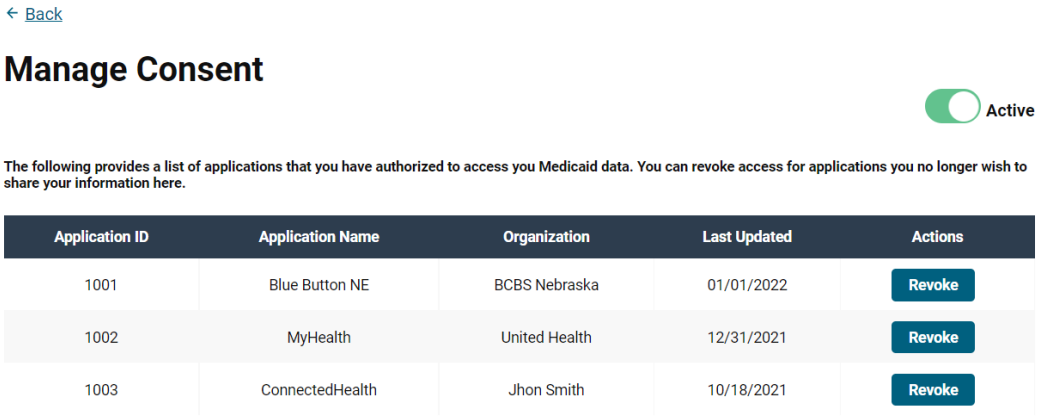
1. The design of this API is available in Swagger.

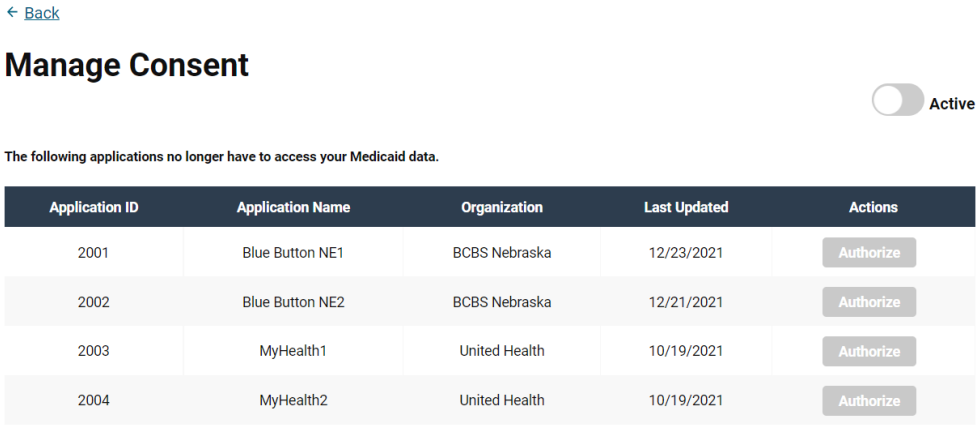
Manage Consent

Manage Consent List Page

This page will display a list of applications that the user has consented for access to the user's data via the application. Users can revoke consent from this listing of applications. The list of applications are those in production and made available for third party organizations and developers. The application registration process is managed via IBM API Connect Developer Portal.

Diagram or Screen Design





Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Application ID	identifier of the application
Application Name	The name of the application
Organization	The organization providing the application
Last Updated	Last Modified Date
Actions	It is a Button for Converting Application to Active/ Inactive state

Action Involved

The following actions are involved with this component.

1. The user will be able to revoke consent of an application.
2. The user must verify revoking of consent with a second dialog box.
3. The system will retain the date / time and the user ID of the user revoking consent.
4. The user will be able to re-activate an application.
5. Active toggle button for show the active / Inactive Application Information in the table

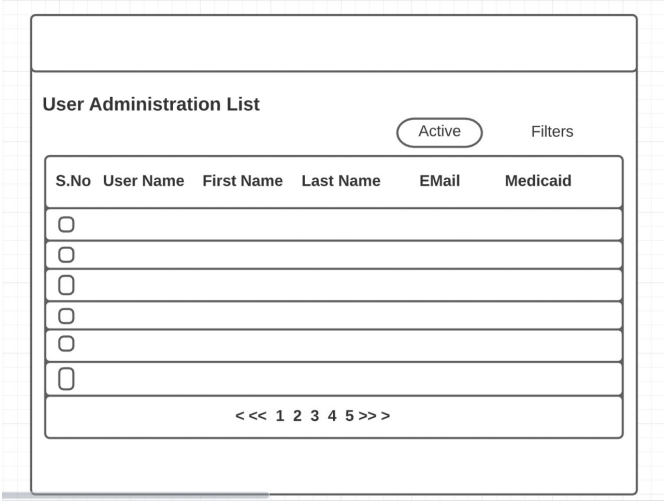
Component-Specific Non-Functional Requirements

Constraints or Limitations

User Administration - NOT PART OF MVP

User Administration List Page - NOT PART OF MVP

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS

Actions Involved

The following actions are involved with this component.

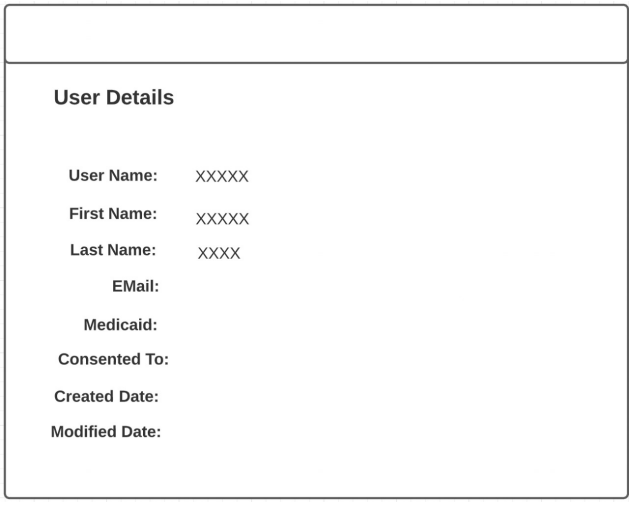
1. Show listing of users
2. Provide ability to filter user list by:
    a. Active / Inactive Status
    b. Name (search user name, first name, and last name)
    c. Medicaid Identifier
    d. Applications Consented To
3. Allow selecting of one or more users to perform bulk operations
4. Bulk operations provided:
    a. De-Activate User
    b. Delete User

Component-Specific Non-Functional Requirements

Constraints or Limitations

User Details - NOT PART OF MVP

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS
User Applications Consented To	List of applications the user has consented
Created Date	Created date of user record
Modified Date	Date when the user record was last modified

Action Involved

The following actions are involved with this component.

1. Revoke consent for a selected application
2. Set user password
3. Update user details:
    a. User Name
    b. User First Name
    c. User Last Name
    d. User Email

Component-Specific Non-Functional Requirements

1. Any change to the user record will be logged.

Constraints or Limitations

1. Medicaid Identifiers cannot be updated or removed from this component.

Non-Functional Requirements

1. None

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Scope

This document provides the design for the Web Application user log in, user registration, Medicaid digital registration, and user administration necessary to support the CMS Interoperability Project. The Web Application provides the ability for State of Nebraska public users (i.e., Medicaid Members) to register for an account and link their user account with their respective Medicaid identifiers. This is a necessary step to enable the user to use third-party provide applications to access Medicaid records. Third Party applications are not within the scope of this Web Application or the specifications provided here in.

Reference Materials and Documents

The following materials and documents are necessary for the Web Application and this design specification.

1. iServe Design Standards
2. Business to Consumer (B2C) templates
3. Application Registration Design - Application Registration Design Document
4. ID.me OIDC Integration Guide v1.1 - (located at: ID.me Files)

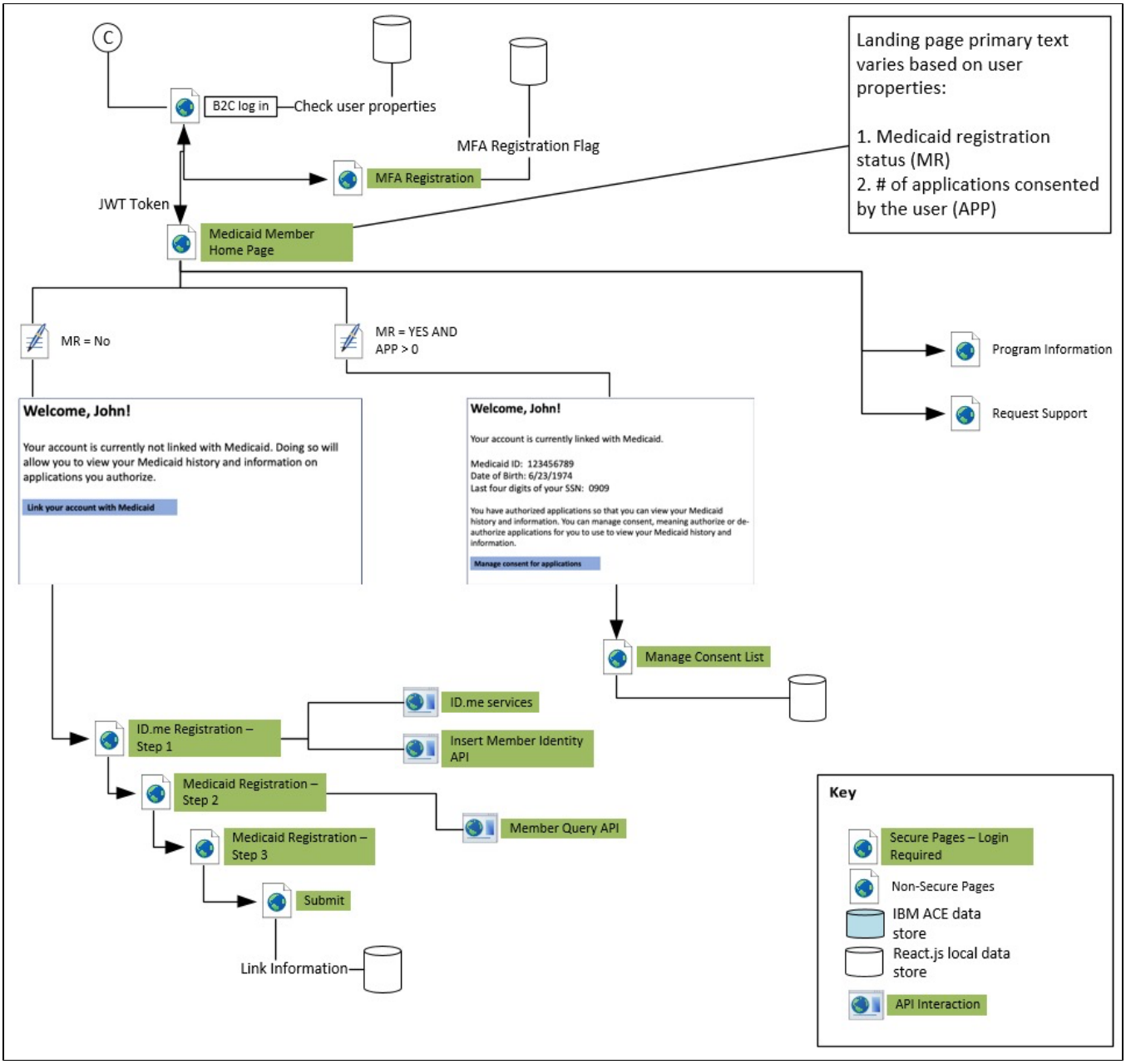
Functional Design

The following subsections provides system pages and components for the following major areas of functionality:

- Log In
- User Registration
- Medicaid Digital Registration
- User Administration

Navigation Overview

The system provides navigation for end users and administrators. The following provides the overall navigation flow for **User Registration**.



Actors or Personas Involved

Actor	Description
Non Registered User	A Medicaid member who has not yet registered with the State's B2C process.
Registered User	A Medicaid member who has registered with the State's B2C process.
MMIS	Enables lookup of user for the purpose of linking the user registration with Medicaid.
Identity Proofing	Verifies the user is identified using an outsourced service provided by ID.me
Multi-Factor Authentication	Requires user to log in with additional data using an outsourced service.
Administrators	Manages users and application consent for users.

System Pages or Components

The following subsections provides system pages and components for the following major areas of functionality:

- Sign In / Sign Up
- Medicaid Digital Registration
- Manage Consent
- Administration

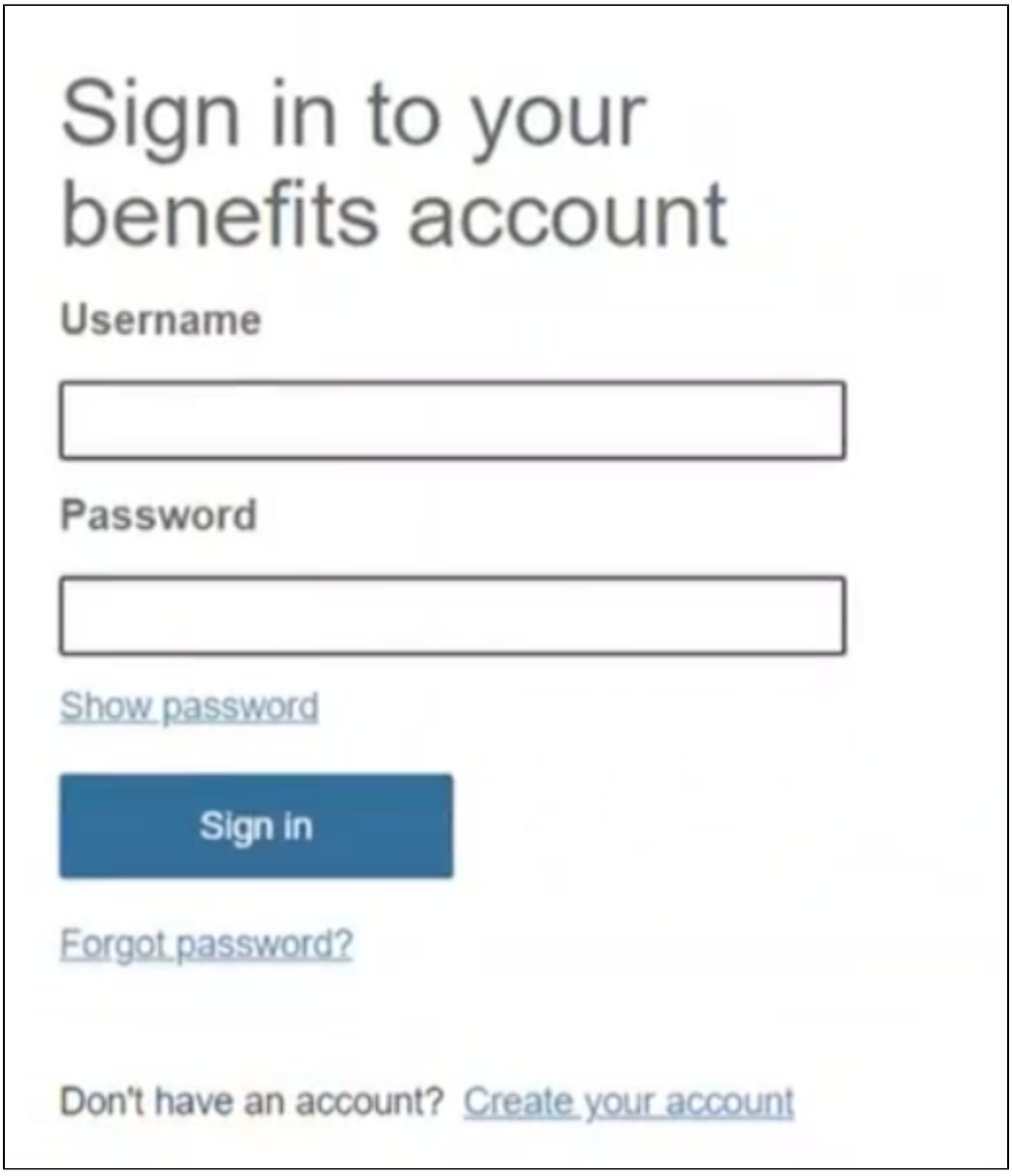
Sign In / Sign Up

Sign In / Sign Up is conducted by the DHHS Business to Consumer (B2C) Azure functionality.

B2C Sign In

This page enables the Medicaid user to sign into their B2C account.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	It is text field and it is mandatory field

Password	It is password field and it is mandatory field
Sign In	Performs Sign In of the user against the B2C database
Create Your Account	Enables Medicaid members to sign up.

Action Involved

The following actions are involved with this component:

1. Sign In to authenticate the Medicaid member

Component-Specific Non-Functional Requirements

1. None.

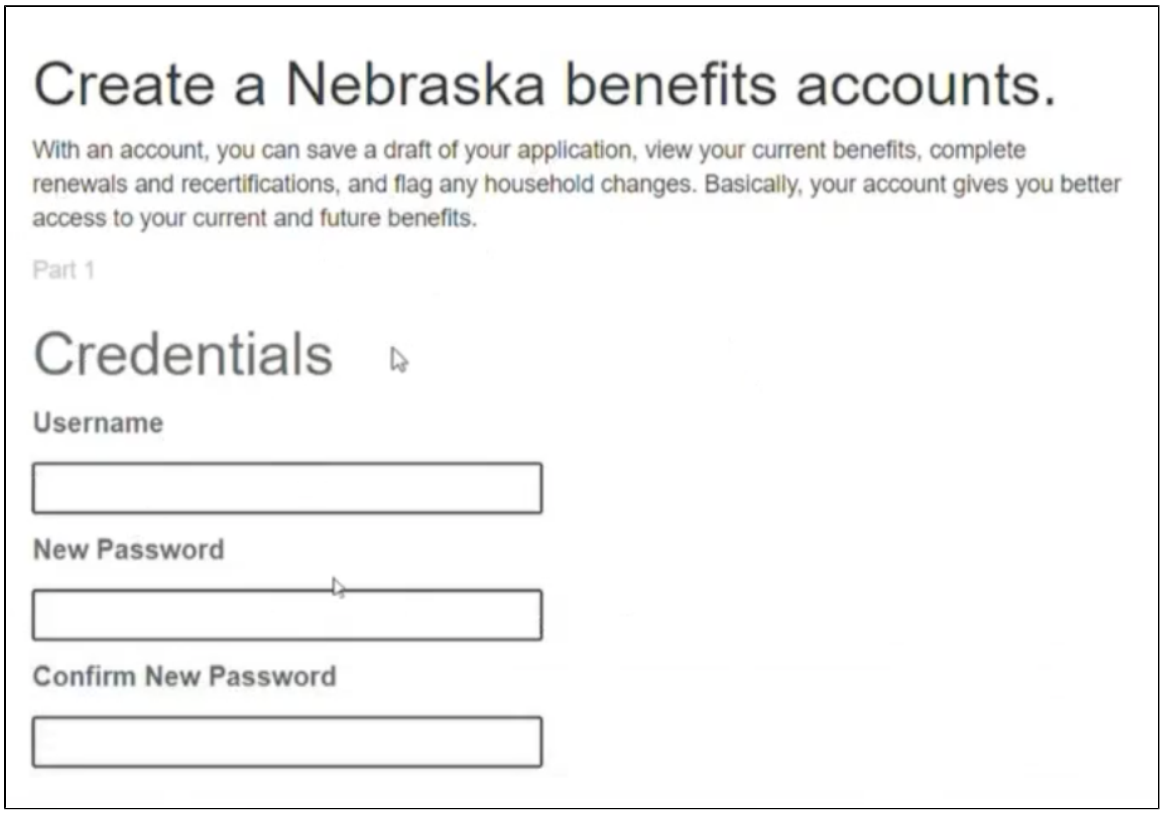
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Sign Up

The Sign Up process leverages DHHS B2C capability to enable Medicaid members to sign up for an account. Account information is shared with iServe Sign Up.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	The user name for the Medicaid member.
Password	User entered password.

Action Involved

The following actions are involved with this component:

1. This is the first of three steps to creating a user account.
2. User name must be unique.

Component-Specific Non-Functional Requirements

1. None.

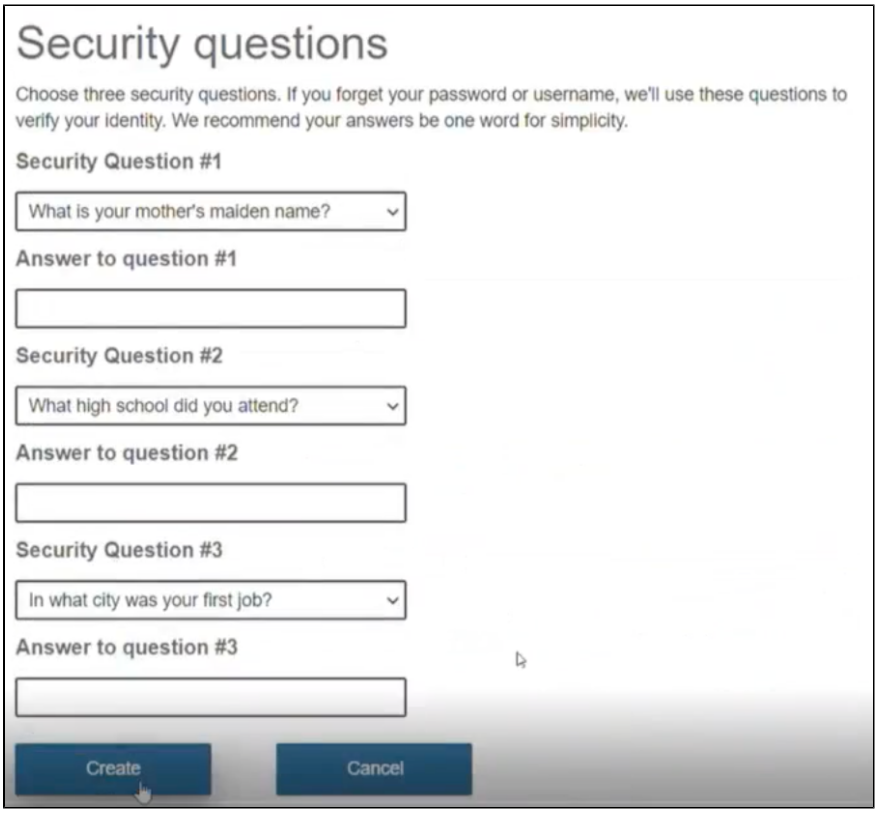
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Security Questions

This page provides three security questions that are used to recover the Medicaid member's account access (i.e., forgotten password).

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Security Questions 1 to 3	Enables the Medicaid member to select answers to three questions.

Action Involved

The following actions are involved with this component:

1. This is the second of three steps to creating a user account.
2. Create user account. Duplicate user accounts are not allows.
3. Cancel to stop the account creation process.

Component-Specific Non-Functional Requirements

1. None

Constraints or Limitations

1. None.

B2C Multi-Factor Authentication

Multi-Factor Authentication (MFA) is required as a first step to linking a Medicaid member's record. This page enables the user to setup MFA. MFA provides an extra layer of security in case the Medicaid member attempts to log in the first time or from a different device.

Diagram or Screen Design

TBD

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MFA Method	The user selects
MFA Data Entry	Mobile phone number or email address to use for MFA verification.
MEMBER_MFAREGISTERED_IND	Stores the MFA registration flag.

Action Involved

The following actions are involved with this component:

1. This is the third of three steps to creating a user account.
2. The Medicaid member selects the method by which they will perform MFA. Typically, this will be a mobile number or email address.
3. The Medicaid member will be prompted a dialog box to turn on MFA.
4. The Medicaid member will be prompted to conduct MFA on first log on or if the Medicaid member is conducting log in from an unrecognized device.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. The Azure B2C capability will be extended to add MFA verification. MFA is not used by iServe.
2. The exact MFA methods available will depend on the Azure B2C configuration supported by DHHS.

Medicaid Member Home Page

This page provides the home page for Medicaid members. This page can be published as a standalone page and published as a part of the DHHS Member communications process. It can also be launched from the CMS Interoperabilty Home Page (see App Registration Design).

Diagram or Screen Design

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
None	

Action Involved

The following actions are involved with this component.

1. Sign In - Invokes the Sign In process (**Sign In Page** opens).
2. Sign Up - Invokes the Sign Up process (**Sign Up Page** opens).
3. Once the Medicaid member signs in, this page displays text above the tiles based on user properties:
    a. Medicaid registration status (MR)
    b. # of applications consented by the user (APP)
4. If MR = 0
    a. Text = "Your account is currently not linked with Medicaid. Doing so will allow you to view your Medicaid history and information on applications you authorize. "
    b. Button label = "Link your account with Medicaid". This button opens the **Medicaid Digital Registration - Step 1 Page**.
5. If MR > 0 and APP > 0
    a. Text = "Your account is linked with Medicaid. You have authorized applications so that you can view your Medicaid history and information. You can manage consent, meaning authorize or de-authorize applications for you to use to view your Medicaid history and information."
    b. Button label = "Manage consent for applications"
6. Link My Medicaid Account - enables the Medicaid member to link their B2C account with Medicaid (MMIS). By clicking on this tile, the **Medicaid Digital Registration - Step 1 Page** opens.
7. Documentation - view publicly documentation relevant to CMS Interoperability and other guides. NOT PART OF MVP

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Medicaid Digital Registration

ID.me Registration - Step 1

This page enables the user to begin the process of to launch the identity verification service provided by the DHHS selected identity provider, ID.me.

Diagram or Screen Design

TBD

Data Elements Involved

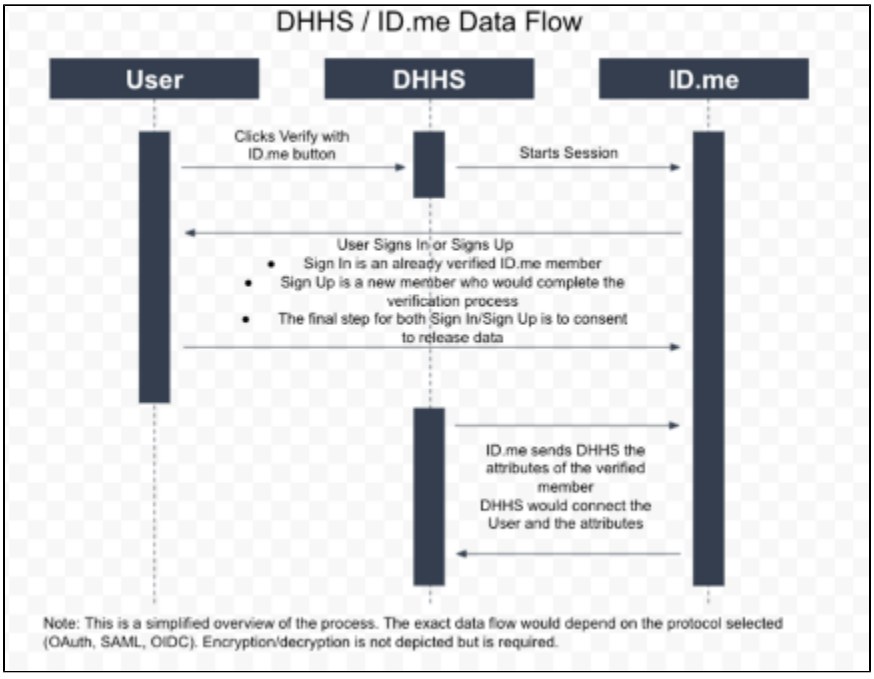
The following data elements are involved with this component.

Data Element	Description
Launch ID.me	This button launches the ID.me identity verification process.

Action Involved

The following actions are involved with this component.

1. This page will present communication/ language that describes why the Medicaid member must perform identity verification. The following provides the text:
    a. TBD
2. ID.me will return the Medicaid member's identity information or an error response code.
3. Registration continues if the Medicaid member's identity information is returned.
4. Otherwise, the error response is displayed and the user will be directed to return to linking Medicaid at a later time.
5. The following flow describes the anticipated interaction with ID.me. At the end of the ID.me self-serve flow, the user consents to release their verified attributes (ex. UUID, name, SSN, date of birth, address, email), and these would be passed back to the Digital Registration application as a verified attribute bundle (AES-256 CBC encrypted) through an open federated identity protocols like SAML 2.0, OAuth 2.0, and OpenID Connect. Digital Registration will record the payload in Azure storage.



Component-Specific Non-Functional Requirements

1. ID.me returns a JSON object that contains the Medicaid member's identity information. This information will be stored in the CMSI database.

Constraints or Limitations

1. ID.me OpenID Connect Integration provides integration guidance (see Reference section of this document.

Medicaid Digital Registration - Step 2

This page presents the information returned from ID.me and presents a text box for the Medicaid member to enter their Medicaid identifier.

Diagram or Screen Design

TBD

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
UUID	Unique identifier from ID.me (not viewed on page)
Email	Read only view of the email address
First Name	Read only view of the first name of the Medicaid member
Middle Name	Read only view of the middle name of the Medicaid member
Last Name	Read only view of the last name of the Medicaid member
Birth Date	Read only view of the date of birth of the Medicaid member
Social Security Number	Read only view of the SSN of the Medicaid member
Address	Read only view of the address of the Medicaid member
Phone	Read only view of the phone number of the Medicaid member
Medicaid ID	The Medicaid identifier entered by the user

Action Involved

The following actions are involved with this component.

1. The Medicaid member has the option to continue with linking with Medicaid if the Medicaid member identity information is presented.
2. The Medicaid member enters their Medicaid ID.
3. If the member continues with valid member identity information presented, the system will perform a Member lookup against the MMIS data (**Query Member Identity API**).
4. The Medicaid member has the option to cancel out of the linking process.

Component-Specific Non-Functional Requirements

1. None.

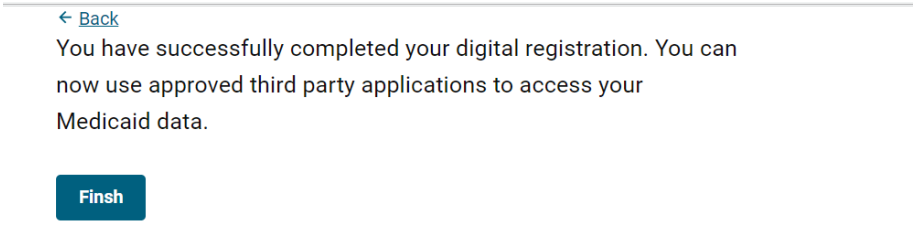
Constraints or Limitations

1. None.

Medicaid Digital Registration - Feed Back Page

This page presents the feed back to the user saying that their request will be reviewed and a decision will be communicated.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI (not displayed to user)
MEMBER_B2C_ID	UUID from the identity verification services
IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

1. Submit - enables the user to complete Medicaid linking. This action stores the Medicaid linkage data.
2. On submit, the database is updated.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Insert Member Identity API

This API adds the Medicaid member's identity information provided by identity services into the CMSI database. This API provides the call back URI for identity services to return the Medicaid member's identity information.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI.
IDME_UUID	The UUID provided by the identity verification services.
IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. The design of this API is available in Swagger.

Query Member Identity API

This API performs a member lookup against the MMIS database.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Medicaid ID	The Medicaid identifier entered by the user.
SSN	The Medicaid member's SSN as provided by identity services.
Date of Birth	The date of birth of the Medicaid member as provided by identity services.

Action Involved

The following actions are involved with this component:

1. None.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

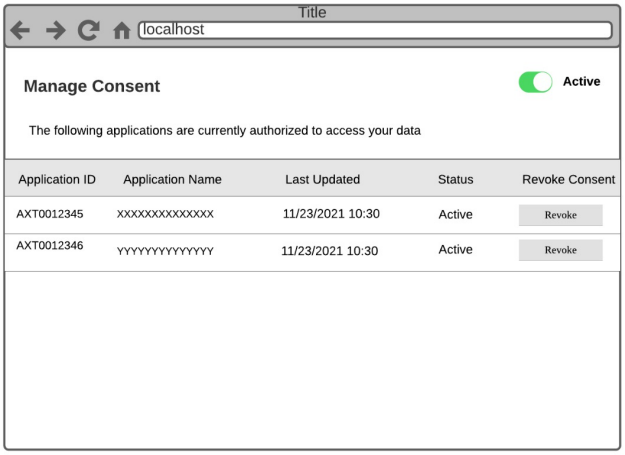
1. The design of this API is available in Swagger.

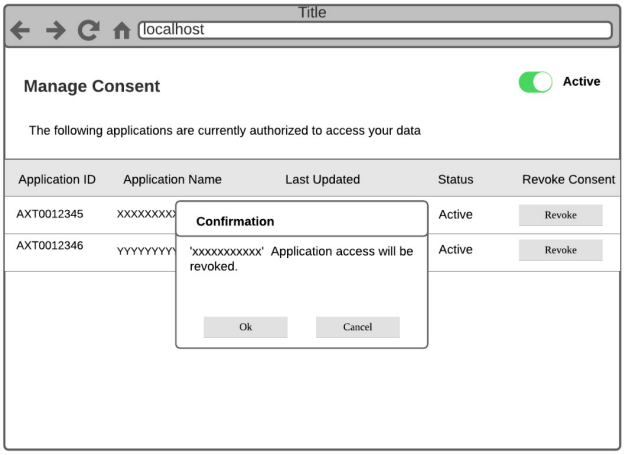
Manage Consent

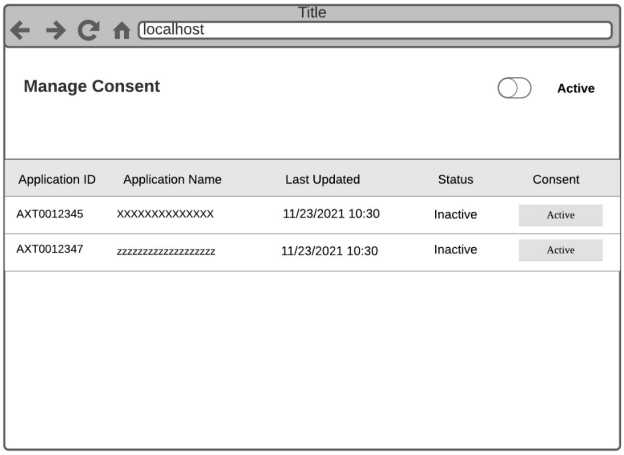
Manage Consent List Page

This page will display a list of applications that the user has consented for access to the user's data via the application. Users can revoke consent from this listing of applications. The list of applications are those in production and made available for third party organizations and developers. The application registration process is managed via IBM API Connect Developer Portal.

Diagram or Screen Design







Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Application ID	identifier of the application
Application Name	The name of the application
Organization	The organization providing the application

Action Involved

The following actions are involved with this component.

1. The user will be able to revoke consent of an application.
2. The user must verify revoking of consent with a second dialog box.
3. The system will retain the date / time and the user ID of the user revoking consent.
4. The user will be able to re-activate an application.

Component-Specific Non-Functional Requirements

Constraints or Limitations

User Administration - NOT PART OF MVP

User Administration List Page - NOT PART OF MVP

Diagram or Screen Design

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS

Actions Involved

The following actions are involved with this component.

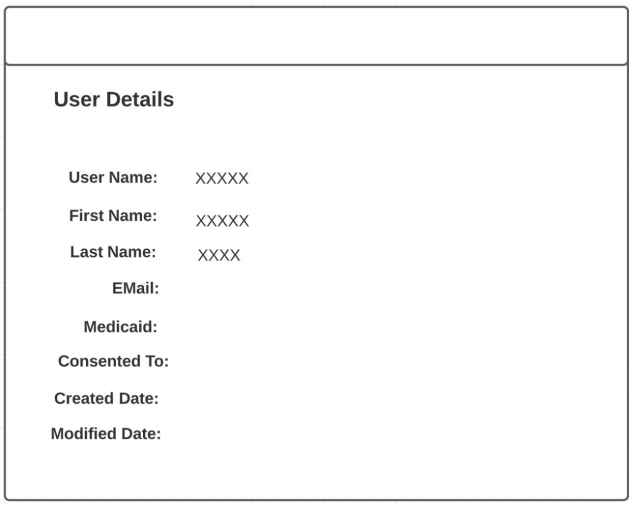
1. Show listing of users
2. Provide ability to filter user list by:
    a. Active / Inactive Status
    b. Name (search user name, first name, and last name)
    c. Medicaid Identifier
    d. Applications Consented To
3. Allow selecting of one or more users to perform bulk operations
4. Bulk operations provided:
    a. De-Activate User
    b. Delete User

Component-Specific Non-Functional Requirements

Constraints or Limitations

User Details - NOT PART OF MVP

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS
User Applications Consented To	List of applications the user has consented
Created Date	Created date of user record
Modified Date	Date when the user record was last modified

Action Involved

The following actions are involved with this component.

1. Revoke consent for a selected application
2. Set user password
3. Update user details:
    a. User Name
    b. User First Name
    c. User Last Name
    d. User Email

Component-Specific Non-Functional Requirements

1. Any change to the user record will be logged.

Constraints or Limitations

1. Medicaid Identifiers cannot be updated or removed from this component.

Non-Functional Requirements

1. None

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Scope

This document provides the design for the Web Application user log in, user registration, Medicaid digital registration, and user administration necessary to support the CMS Interoperability Project. The Web Application provides the ability for State of Nebraska public users (i.e., Medicaid Members) to register for an account and link their user account with their respective Medicaid identifiers. This is a necessary step to enable the user to use third-party provide applications to access Medicaid records. Third Party applications are not within the scope of this Web Application or the specifications provided here in.

Reference Materials and Documents

The following materials and documents are necessary for the Web Application and this design specification.

1. iServe Design Standards
2. Business to Consumer (B2C) templates
3. Application Registration Design - Application Registration Design Document
4. ID.me OIDC Integration Guide v1.1 - (located at: ID.me Files)

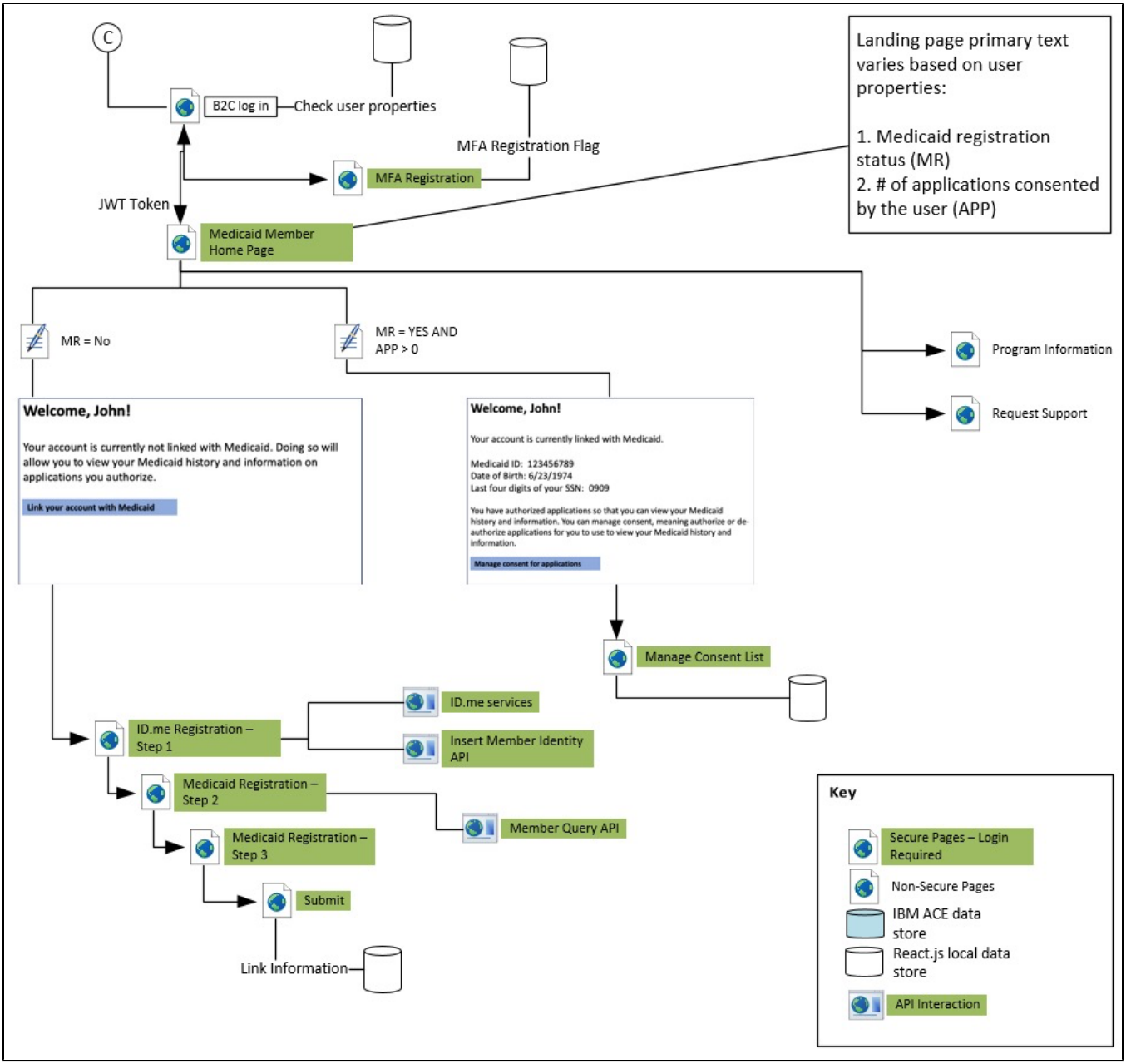
Functional Design

The following subsections provides system pages and components for the following major areas of functionality:

- Log In
- User Registration
- Medicaid Digital Registration
- User Administration

Navigation Overview

The system provides navigation for end users and administrators. The following provides the overall navigation flow for **User Registration**.



Actors or Personas Involved

Actor	Description
Non Registered User	A Medicaid member who has not yet registered with the State's B2C process.
Registered User	A Medicaid member who has registered with the State's B2C process.
MMIS	Enables lookup of user for the purpose of linking the user registration with Medicaid.
Identity Proofing	Verifies the user is identified using an outsourced service provided by ID.me
Multi-Factor Authentication	Requires user to log in with additional data using an outsourced service.
Administrators	Manages users and application consent for users.

System Pages or Components

The following subsections provides system pages and components for the following major areas of functionality:

- Sign In / Sign Up
- Medicaid Digital Registration
- Manage Consent
- Administration

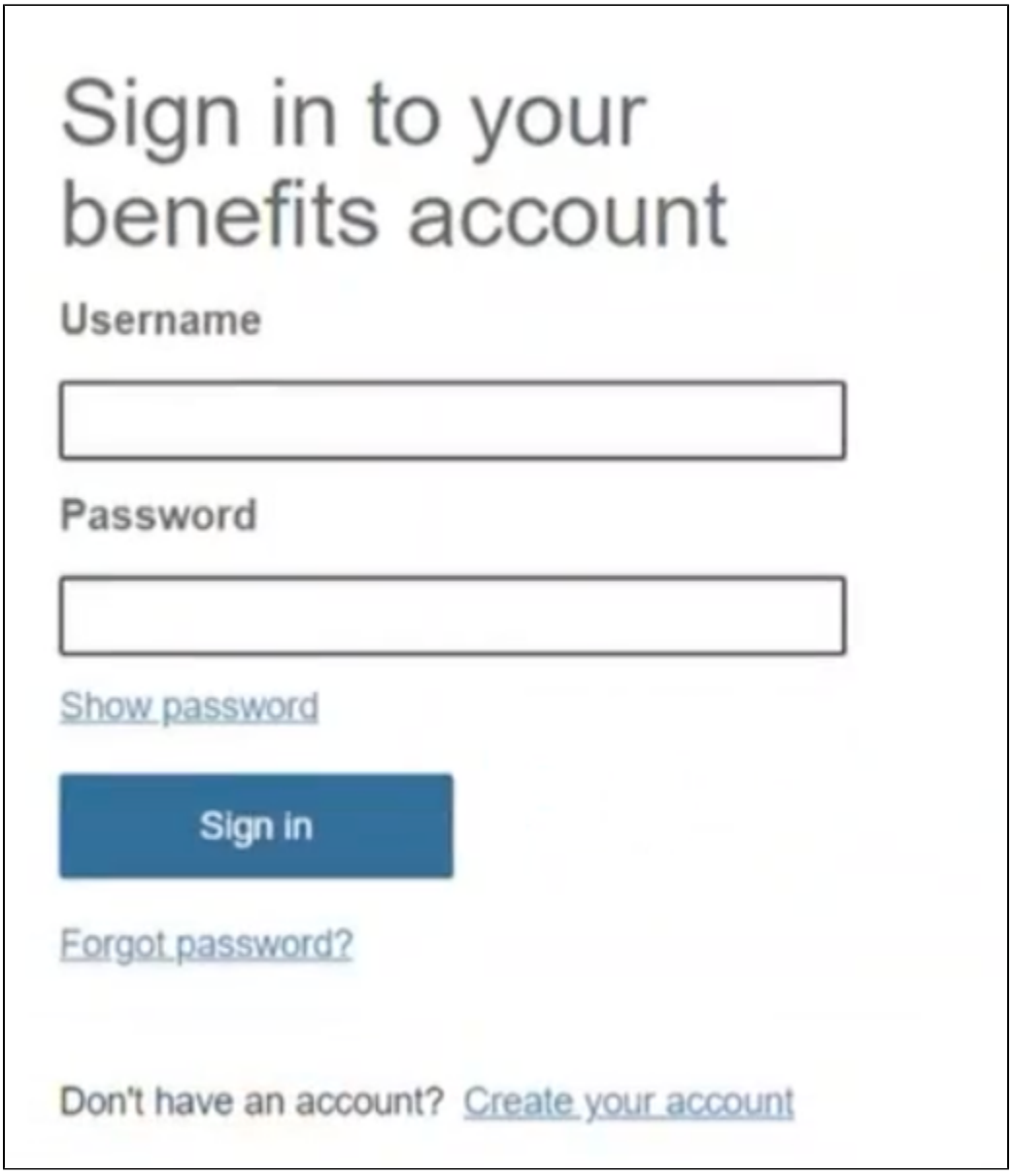
Sign In / Sign Up

Sign In / Sign Up is conducted by the DHHS Business to Consumer (B2C) Azure functionality.

B2C Sign In

This page enables the Medicaid user to sign into their B2C account.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	It is text field and it is mandatory field

Password	It is password field and it is mandatory field
Sign In	Performs Sign In of the user against the B2C database
Create Your Account	Enables Medicaid members to sign up.

Action Involved

The following actions are involved with this component:

1. Sign In to authenticate the Medicaid member

Component-Specific Non-Functional Requirements

1. None.

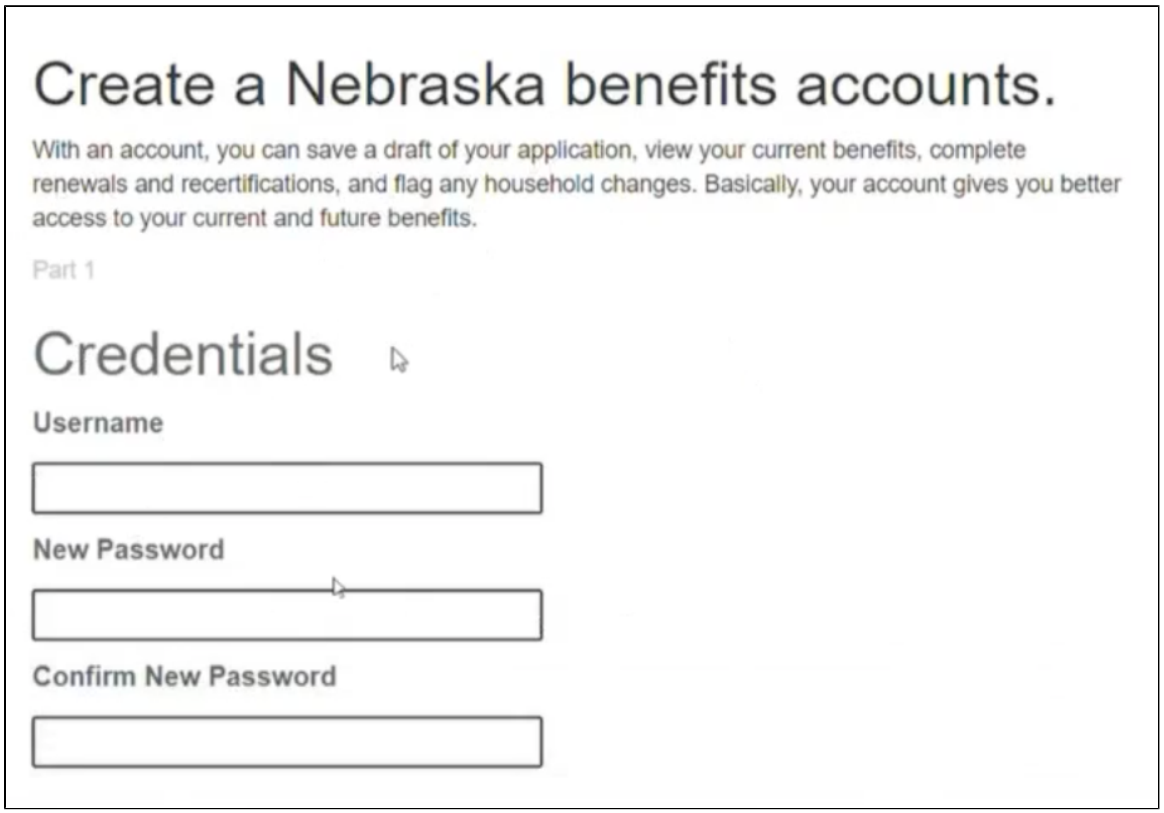
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Sign Up

The Sign Up process leverages DHHS B2C capability to enable Medicaid members to sign up for an account. Account information is shared with iServe Sign Up.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	The user name for the Medicaid member.
Password	User entered password.

Action Involved

The following actions are involved with this component:

1. This is the first of three steps to creating a user account.
2. User name must be unique.

Component-Specific Non-Functional Requirements

1. None.

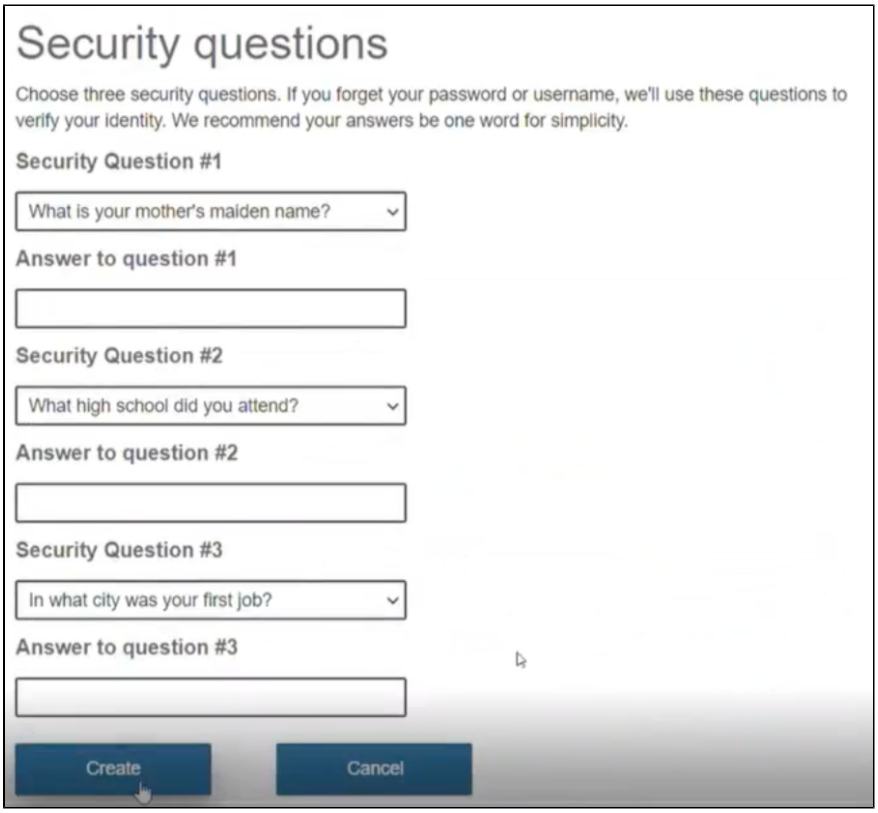
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Security Questions

This page provides three security questions that are used to recover the Medicaid member's account access (i.e., forgotten password).

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Security Questions 1 to 3	Enables the Medicaid member to select answers to three questions.

Action Involved

The following actions are involved with this component:

1. This is the second of three steps to creating a user account.
2. Create user account. Duplicate user accounts are not allows.
3. Cancel to stop the account creation process.

Component-Specific Non-Functional Requirements

1. None

Constraints or Limitations

1. None.

B2C Multi-Factor Authentication

Multi-Factor Authentication (MFA) is required as a first step to linking a Medicaid member's record. This page enables the user to setup MFA. MFA provides an extra layer of security in case the Medicaid member attempts to log in the first time or from a different device.

Diagram or Screen Design

TBD

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MFA Method	The user selects
MFA Data Entry	Mobile phone number or email address to use for MFA verification.
MEMBER_MFAREGISTERED_IND	Stores the MFA registration flag.

Action Involved

The following actions are involved with this component:

1. This is the third of three steps to creating a user account.
2. The Medicaid member selects the method by which they will perform MFA. Typically, this will be a mobile number or email address.
3. The Medicaid member will be prompted a dialog box to turn on MFA.
4. The Medicaid member will be prompted to conduct MFA on first log on or if the Medicaid member is conducting log in from an unrecognized device.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. The Azure B2C capability will be extended to add MFA verification. MFA is not used by iServe.
2. The exact MFA methods available will depend on the Azure B2C configuration supported by DHHS.

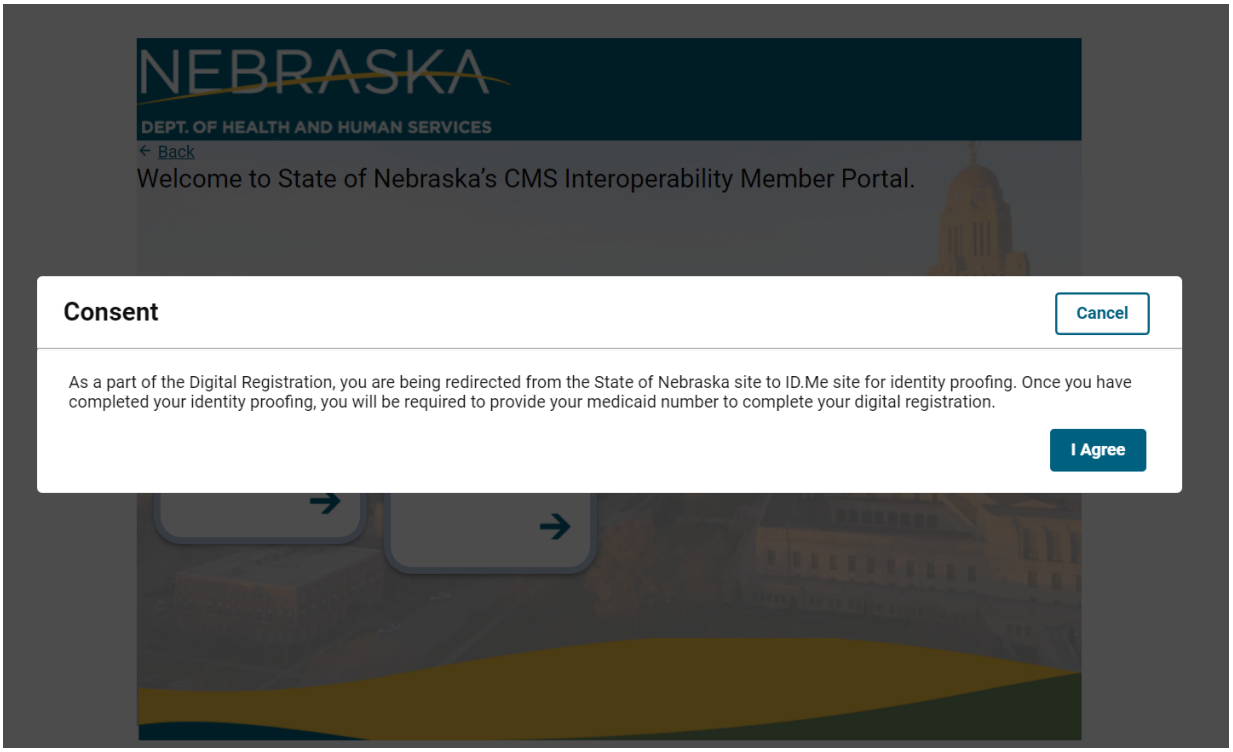
Medicaid Member Home Page

This page provides the home page for Medicaid members. This page can be published as a standalone page and published as a part of the DHHS Member communications process. It can also be launched from the CMS Interoperability Home Page (see **App Registration Design**).

Diagram or Screen Design

When the user successfully Sign In below screen is shown giving them a option to do a Digital registration

When the user click on the Digital Registration then have to read our T&C , if they accept we will allow them to for Digital Registration



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
None	

Action Involved

The following actions are involved with this component.

1. Sign In - Invokes the Sign In process (**Sign In Page** opens).
2. Sign Up - Invokes the Sign Up process (**Sign Up Page** opens).
3. Once the Medicaid member signs in, this page displays text above the tiles based on user properties:
    a. Medicaid registration status (MR)
    b. # of applications consented by the user (APP)
4. If MR = 0
    a. Text = "Your account is currently not linked with Medicaid. Doing so will allow you to view your Medicaid history and information on applications you authorize. "
    b. Button label = "Link your account with Medicaid". This button opens the **Medicaid Digital Registration - Step 1 Page**.
5. If MR > 0 and APP > 0
    a. Text = "Your account is linked with Medicaid. You have authorized applications so that you can view your Medicaid history and information. You can manage consent, meaning authorize or de-authorize applications for you to use to view your Medicaid history and information."
    b. Button label = "Manage consent for applications"
6. Link My Medicaid Account - enables the Medicaid member to link their B2C account with Medicaid (MMIS). By clicking on this tile, the **Medicaid Digital Registration - Step 1 Page** opens.
7. Documentation - view publicly documentation relevant to CMS Interoperability and other guides. NOT PART OF MVP

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

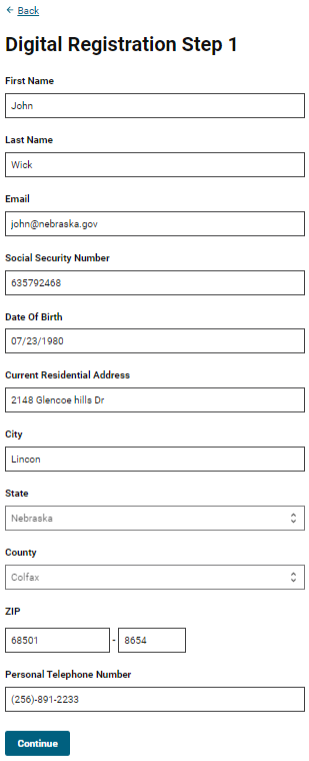
1. None.

Medicaid Digital Registration

ID.me Registration - Step 1

This page enables the user to begin the process of to launch the identity verification service provided by the DHHS selected identity provider, ID.me. (This will be an ID.me webpage where user validates with ID.me). We will show the info we get back from ID.me to the User so they can confirm and move further.

Diagram or Screen Design



Data Elements Involved

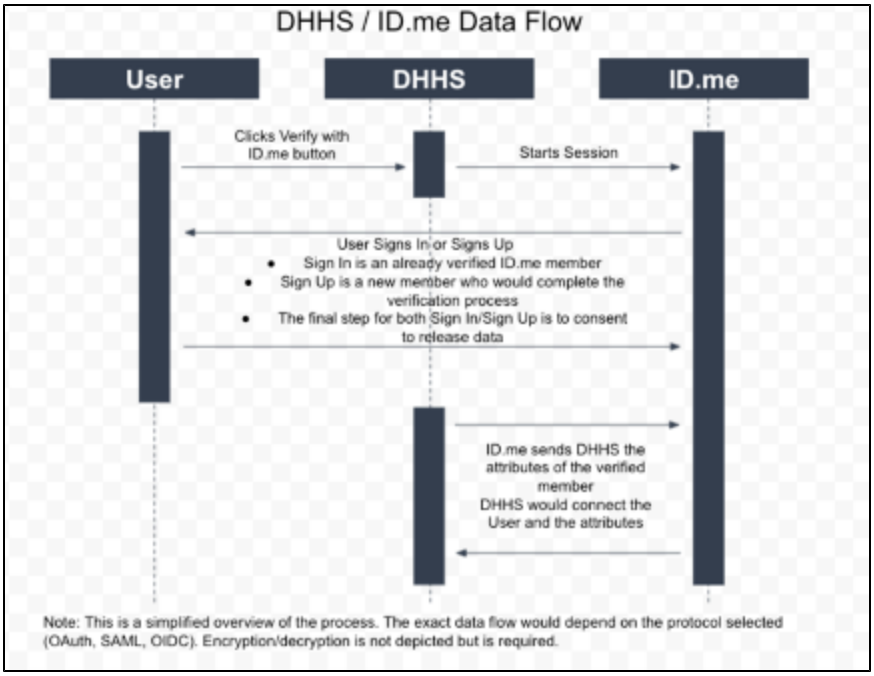
The following data elements are involved with this component.

Data Element	Description
Launch ID.me	This button launches the ID.me identity verification process.

Action Involved

The following actions are involved with this component.

1. This page will present communication/ language that describes why the Medicaid member must perform identity verification. The following provides the text:
    a. TBD
2. ID.me will return the Medicaid member's identity information or an error response code.
3. Registration continues if the Medicaid member's identity information is returned.
4. Otherwise, the error response is displayed and the user will be directed to return to linking Medicaid at a later time.
5. The following flow describes the anticipated interaction with ID.me. At the end of the ID.me self-serve flow, the user consents to release their verified attributes (ex. UUID, name, SSN, date of birth, address, email), and these would be passed back to the Digital Registration application as a verified attribute bundle (AES-256 CBC encrypted) through an open federated identity protocols like SAML 2.0, OAuth 2.0, and OpenID Connect. Digital Registration will record the payload in Azure storage.



Component-Specific Non-Functional Requirements

1. ID.me returns a JSON object that contains the Medicaid member's identity information. This information will be stored in the CMSI database.

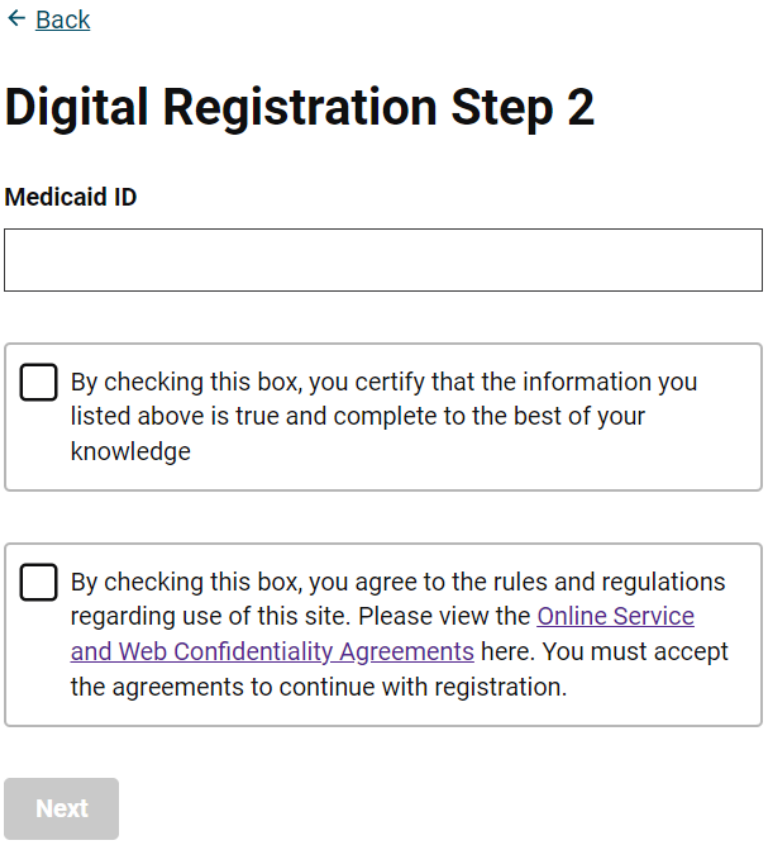
Constraints or Limitations

1. ID.me OpenID Connect Integration provides integration guidance (see Reference section of this document.

Medicaid Digital Registration - Step 2

This page presents the information returned from ID.me and presents a text box for the Medicaid member to enter their Medicaid identifier.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
UUID	Unique identifier from ID.me (not viewed on page)
Email	Read only view of the email address
First Name	Read only view of the first name of the Medicaid member
Middle Name	Read only view of the middle name of the Medicaid member
Last Name	Read only view of the last name of the Medicaid member
Birth Date	Read only view of the date of birth of the Medicaid member
Social Security Number	Read only view of the SSN of the Medicaid member
Address	Read only view of the address of the Medicaid member
Phone	Read only view of the phone number of the Medicaid member
Medicaid ID	The Medicaid identifier entered by the user

Action Involved

The following actions are involved with this component.

1. The Medicaid member has the option to continue with linking with Medicaid if the Medicaid member identity information is presented.
2. The Medicaid member enters their Medicaid ID.
3. If the member continues with valid member identity information presented, the system will perform a Member lookup against the MMIS data (**Query Member Identity API**).
4. The Medicaid member has the option to cancel out of the linking process.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Medicaid Digital Registration - Feed Back Response

This page shows that request has been submitted and someone will verify.

Diagram or Screen Design

TBD

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI (not displayed to user)
MEMBER_B2C_ID	UUID from the identity verification services
IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

1. Submit - enables the user to complete Medicaid linking. This action stores the Medicaid linkage data.
2. On submit, the database is updated.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Insert Member Identity API

This API adds the Medicaid member's identity information provided by identity services into the CMSI database. This API provides the call back URI for identity services to return the Medicaid member's identity information.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI.
IDME_UUID	The UUID provided by the identity verification services.
IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. The design of this API is available in Swagger.

Query Member Identity API

This API performs a member lookup against the MMIS database.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Medicaid ID	The Medicaid identifier entered by the user.
SSN	The Medicaid member's SSN as provided by identity services.
Date of Birth	The date of birth of the Medicaid member as provided by identity services.

Action Involved

The following actions are involved with this component:

1. None.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

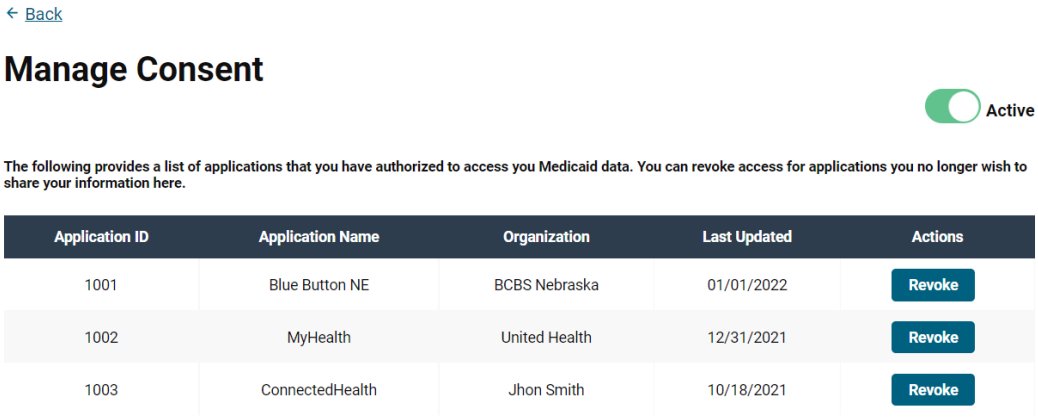
1. The design of this API is available in Swagger.

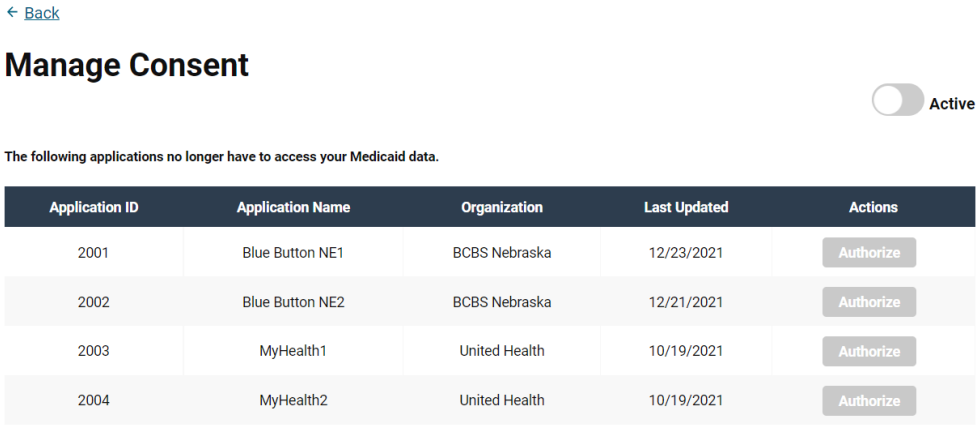
Manage Consent

Manage Consent List Page

This page will display a list of applications that the user has consented for access to the user's data via the application. Users can revoke consent from this listing of applications. The list of applications are those in production and made available for third party organizations and developers. The application registration process is managed via IBM API Connect Developer Portal.

Diagram or Screen Design





Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Application ID	identifier of the application
Application Name	The name of the application
Organization	The organization providing the application
Last Updated	Last Modified Date
Actions	It is a Button for Converting Application to Active/ Inactive state

Action Involved

The following actions are involved with this component.

1. The user will be able to revoke consent of an application.
2. The user must verify revoking of consent with a second dialog box.
3. The system will retain the date / time and the user ID of the user revoking consent.
4. The user will be able to re-activate an application.
5. Active toggle button for show the active / Inactive Application Information in the table

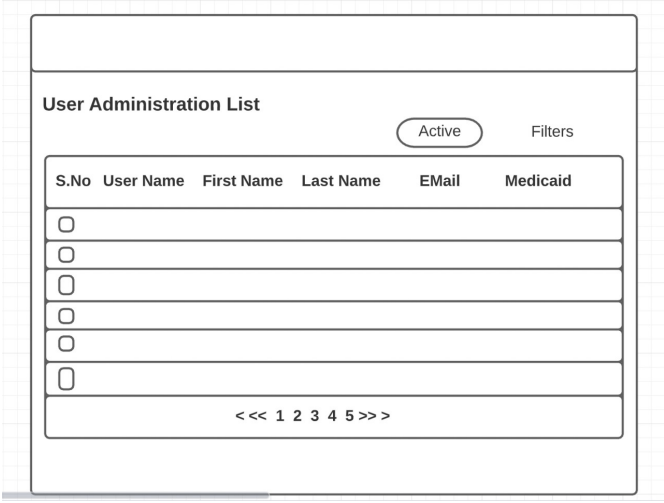
Component-Specific Non-Functional Requirements

Constraints or Limitations

User Administration - NOT PART OF MVP

User Administration List Page - NOT PART OF MVP

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS

Actions Involved

The following actions are involved with this component.

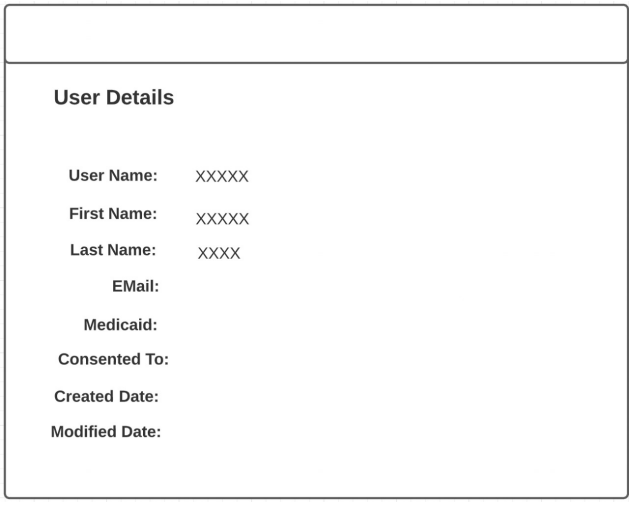
1. Show listing of users
2. Provide ability to filter user list by:
    a. Active / Inactive Status
    b. Name (search user name, first name, and last name)
    c. Medicaid Identifier
    d. Applications Consented To
3. Allow selecting of one or more users to perform bulk operations
4. Bulk operations provided:
    a. De-Activate User
    b. Delete User

Component-Specific Non-Functional Requirements

Constraints or Limitations

User Details - NOT PART OF MVP

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS
User Applications Consented To	List of applications the user has consented
Created Date	Created date of user record
Modified Date	Date when the user record was last modified

Action Involved

The following actions are involved with this component.

1. Revoke consent for a selected application
2. Set user password
3. Update user details:
    a. User Name
    b. User First Name
    c. User Last Name
    d. User Email

Component-Specific Non-Functional Requirements

1. Any change to the user record will be logged.

Constraints or Limitations

1. Medicaid Identifiers cannot be updated or removed from this component.

Non-Functional Requirements

1. None

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Scope

This document provides the design for the Web Application user log in, user registration, Medicaid digital registration, and user administration necessary to support the CMS Interoperability Project. The Web Application provides the ability for State of Nebraska public users (i.e., Medicaid Members) to register for an account and link their user account with their respective Medicaid identifiers. This is a necessary step to enable the user to use third-party provide applications to access Medicaid records. Third Party applications are not within the scope of this Web Application or the specifications provided here in.

Reference Materials and Documents

The following materials and documents are necessary for the Web Application and this design specification.

1. iServe Design Standards
2. Business to Consumer (B2C) templates
3. Application Registration Design - Application Registration Design Document
4. ID.me OIDC Integration Guide v1.1 - (located at: ID.me Files)

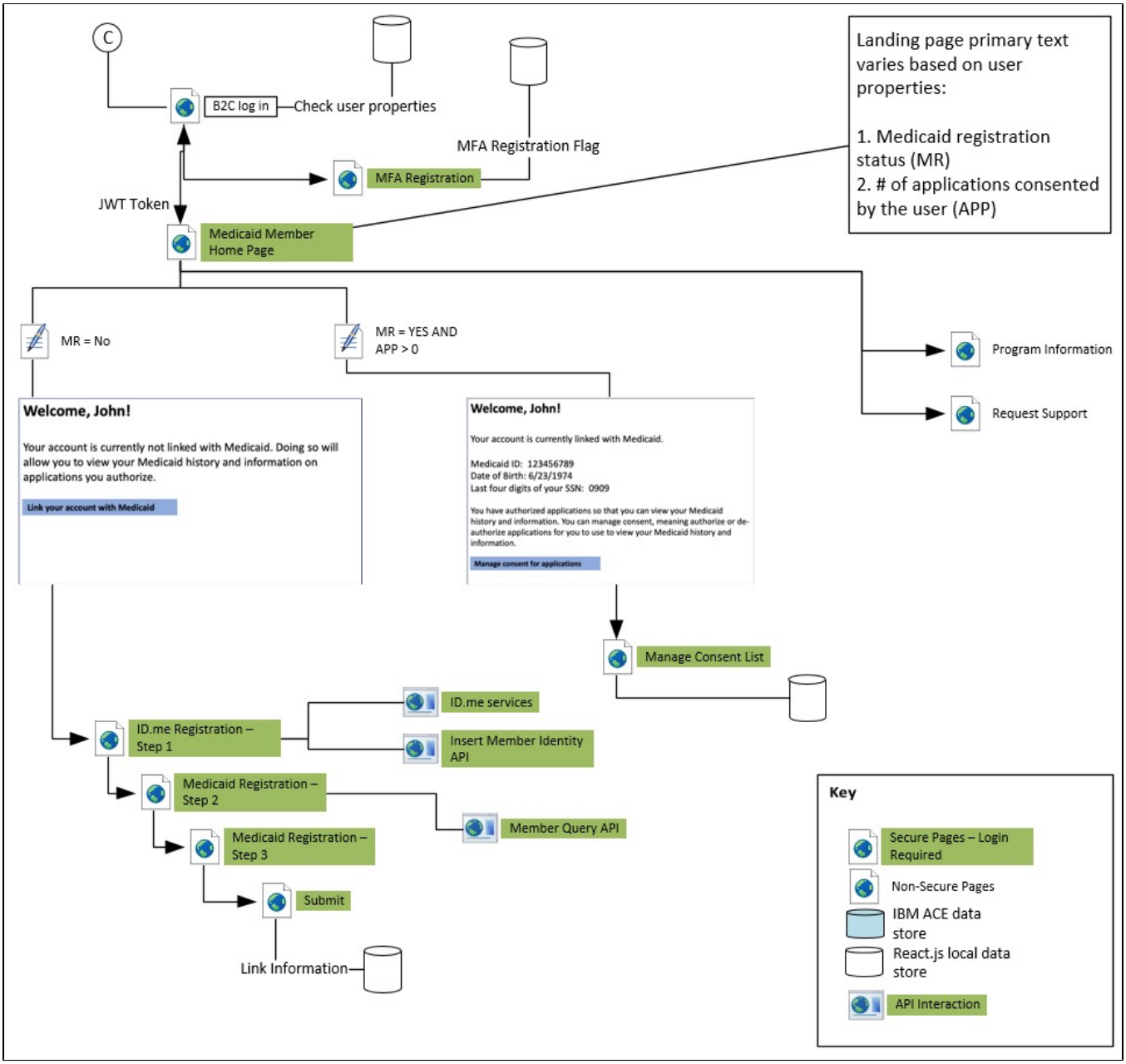
Functional Design

The following subsections provides system pages and components for the following major areas of functionality:

- Log In
- User Registration
- Medicaid Digital Registration
- User Administration

Navigation Overview

The system provides navigation for end users and administrators. The following provides the overall navigation flow for **User Registration**.



Actors or Personas Involved

Actor	Description
Non Registered User	A Medicaid member who has not yet registered with the State's B2C process.
Registered User	A Medicaid member who has registered with the State's B2C process.
MMIS	Enables lookup of user for the purpose of linking the user registration with Medicaid.
Identity Proofing	Verifies the user is identified using an outsourced service provided by ID.me
Multi-Factor Authentication	Requires user to log in with additional data using an outsourced service.
Administrators	Manages users and application consent for users.

System Pages or Components

The following subsections provides system pages and components for the following major areas of functionality:

- Sign In / Sign Up
- Medicaid Digital Registration
- Manage Consent
- Administration

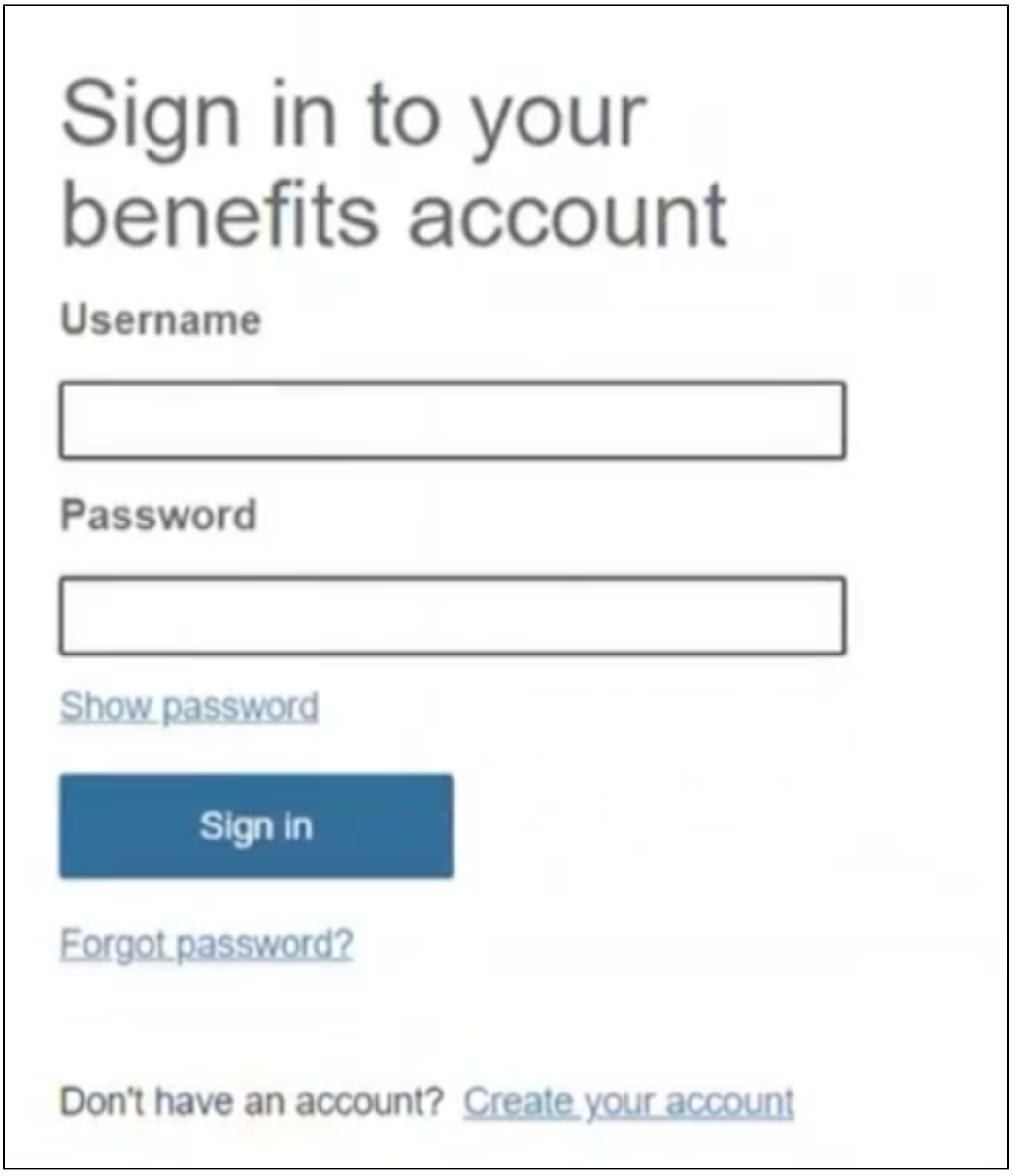
Sign In / Sign Up

Sign In / Sign Up is conducted by the DHHS Business to Consumer (B2C) Azure functionality.

B2C Sign In

This page enables the Medicaid user to sign into their B2C account.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	It is text field and it is mandatory field

Password	It is password field and it is mandatory field
Sign In	Performs Sign In of the user against the B2C database
Create Your Account	Enables Medicaid members to sign up.

Action Involved

The following actions are involved with this component:

1. Sign In to authenticate the Medicaid member

Component-Specific Non-Functional Requirements

1. None.

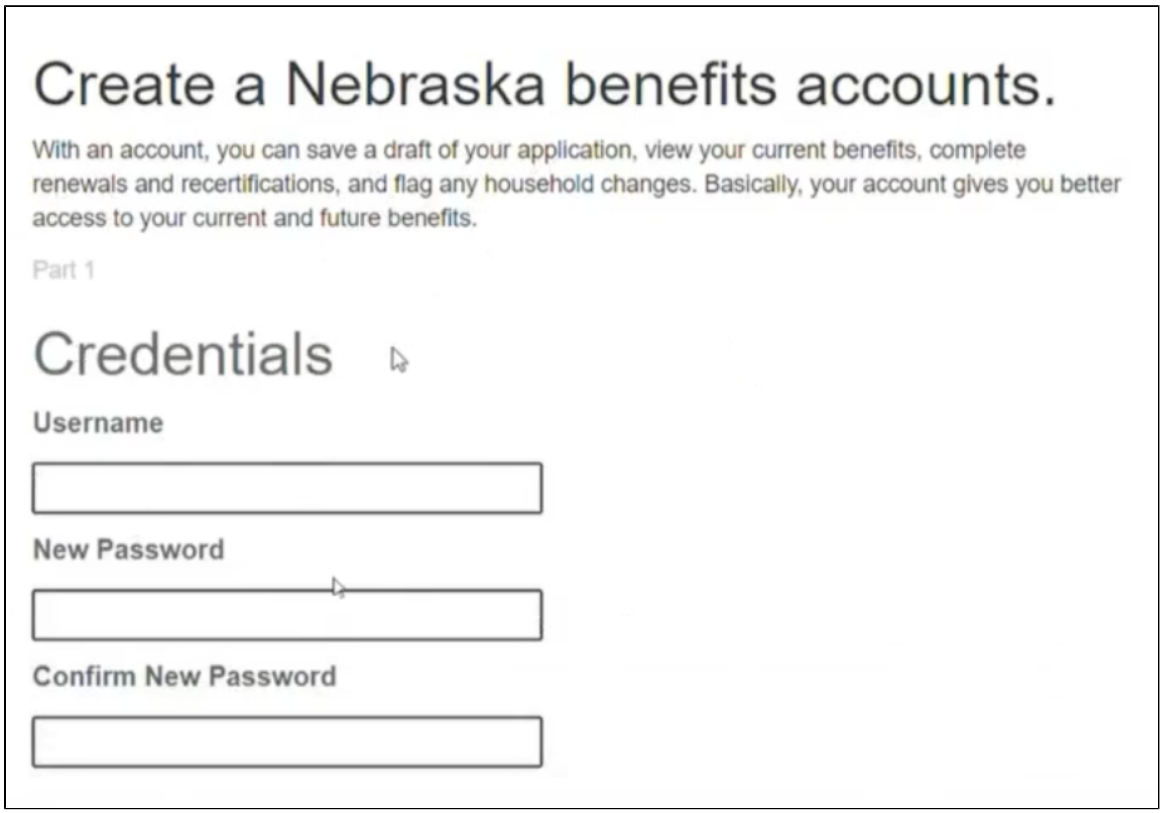
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Sign Up

The Sign Up process leverages DHHS B2C capability to enable Medicaid members to sign up for an account. Account information is shared with iServe Sign Up.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	The user name for the Medicaid member.
Password	User entered password.

Action Involved

The following actions are involved with this component:

1. This is the first of three steps to creating a user account.
2. User name must be unique.

Component-Specific Non-Functional Requirements

1. None.

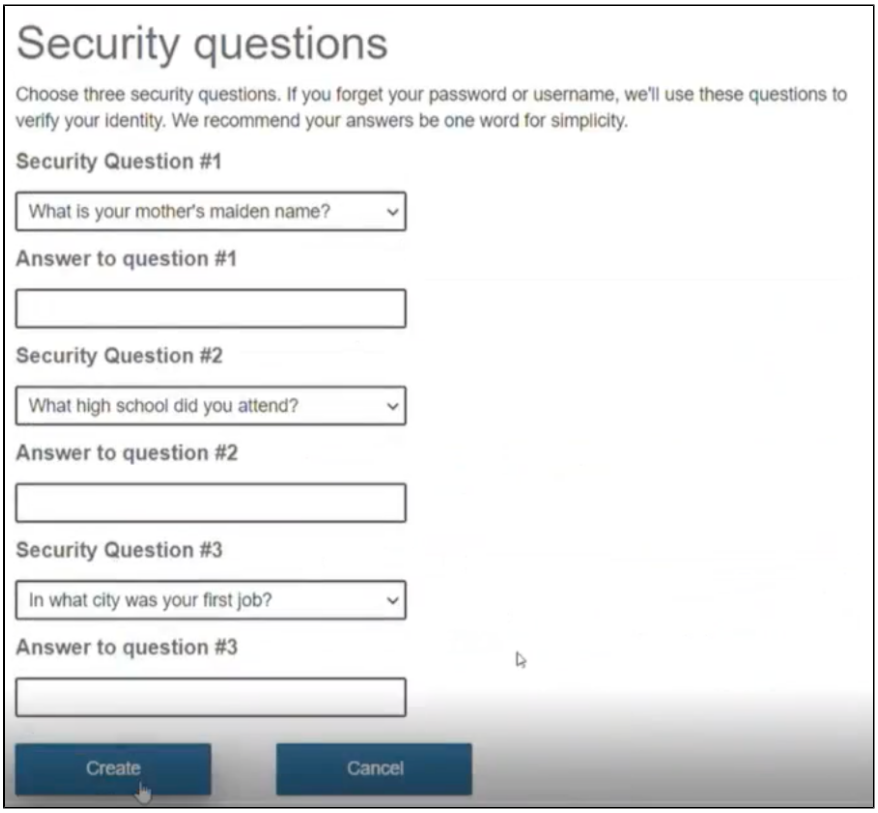
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Security Questions

This page provides three security questions that are used to recover the Medicaid member's account access (i.e., forgotten password).

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Security Questions 1 to 3	Enables the Medicaid member to select answers to three questions.

Action Involved

The following actions are involved with this component:

1. This is the second of three steps to creating a user account.
2. Create user account. Duplicate user accounts are not allows.
3. Cancel to stop the account creation process.

Component-Specific Non-Functional Requirements

1. None

Constraints or Limitations

1. None.

B2C Multi-Factor Authentication

Multi-Factor Authentication (MFA) is required as a first step to linking a Medicaid member's record. This page enables the user to setup MFA. MFA provides an extra layer of security in case the Medicaid member attempts to log in the first time or from a different device.

Diagram or Screen Design

TBD

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MFA Method	The user selects
MFA Data Entry	Mobile phone number or email address to use for MFA verification.
MEMBER_MFAREGISTERED_IND	Stores the MFA registration flag.

Action Involved

The following actions are involved with this component:

1. This is the third of three steps to creating a user account.
2. The Medicaid member selects the method by which they will perform MFA. Typically, this will be a mobile number or email address.
3. The Medicaid member will be prompted a dialog box to turn on MFA.
4. The Medicaid member will be prompted to conduct MFA on first log on or if the Medicaid member is conducting log in from an unrecognized device.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. The Azure B2C capability will be extended to add MFA verification. MFA is not used by iServe.
2. The exact MFA methods available will depend on the Azure B2C configuration supported by DHHS.

Medicaid Member Home Page

This page provides the home page for Medicaid members. This page can be published as a standalone page and published as a part of the DHHS Member communications process. It can also be launched from the CMS Interoperabilty Home Page (see App Registration Design).

Diagram or Screen Design

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
None	

Action Involved

The following actions are involved with this component.

1. Sign In - Invokes the Sign In process (**Sign In Page** opens).
2. Sign Up - Invokes the Sign Up process (**Sign Up Page** opens).
3. Once the Medicaid member signs in, this page displays text above the tiles based on user properties:
    a. Medicaid registration status (MR)
    b. # of applications consented by the user (APP)
4. If MR = 0
    a. Text = "Your account is currently not linked with Medicaid. Doing so will allow you to view your Medicaid history and information on applications you authorize. "
    b. Button label = "Link your account with Medicaid". This button opens the **Medicaid Digital Registration - Step 1 Page**.
5. If MR > 0 and APP > 0
    a. Text = "Your account is linked with Medicaid. You have authorized applications so that you can view your Medicaid history and information. You can manage consent, meaning authorize or de-authorize applications for you to use to view your Medicaid history and information."
    b. Button label = "Manage consent for applications"
6. Link My Medicaid Account - enables the Medicaid member to link their B2C account with Medicaid (MMIS). By clicking on this tile, the **Medicaid Digital Registration - Step 1 Page** opens.
7. Documentation - view publicly documentation relevant to CMS Interoperability and other guides. NOT PART OF MVP

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Medicaid Digital Registration

ID.me Registration - Step 1

This page enables the user to begin the process of to launch the identity verification service provided by the DHHS selected identity provider, ID.me.

Diagram or Screen Design

TBD

Data Elements Involved

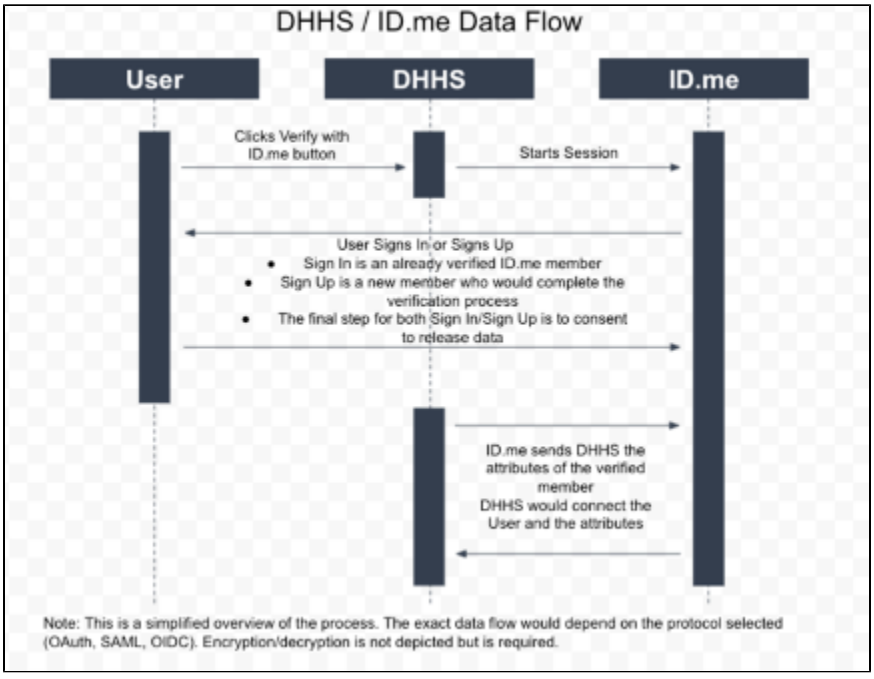
The following data elements are involved with this component.

Data Element	Description
Launch ID.me	This button launches the ID.me identity verification process.

Action Involved

The following actions are involved with this component.

1. This page will present communication/ language that describes why the Medicaid member must perform identity verification. The following provides the text:
    a. TBD
2. ID.me will return the Medicaid member's identity information or an error response code.
3. Registration continues if the Medicaid member's identity information is returned.
4. Otherwise, the error response is displayed and the user will be directed to return to linking Medicaid at a later time.
5. The following flow describes the anticipated interaction with ID.me. At the end of the ID.me self-serve flow, the user consents to release their verified attributes (ex. UUID, name, SSN, date of birth, address, email), and these would be passed back to the Digital Registration application as a verified attribute bundle (AES-256 CBC encrypted) through an open federated identity protocols like SAML 2.0, OAuth 2.0, and OpenID Connect. Digital Registration will record the payload in Azure storage.



Component-Specific Non-Functional Requirements

1. ID.me returns a JSON object that contains the Medicaid member's identity information. This information will be stored in the CMSI database.

Constraints or Limitations

1. ID.me OpenID Connect Integration provides integration guidance (see Reference section of this document.

Medicaid Digital Registration - Step 2

This page presents the information returned from ID.me and presents a text box for the Medicaid member to enter their Medicaid identifier.

Diagram or Screen Design

TBD

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
UUID	Unique identifier from ID.me (not viewed on page)
Email	Read only view of the email address
First Name	Read only view of the first name of the Medicaid member
Middle Name	Read only view of the middle name of the Medicaid member
Last Name	Read only view of the last name of the Medicaid member
Birth Date	Read only view of the date of birth of the Medicaid member
Social Security Number	Read only view of the SSN of the Medicaid member
Address	Read only view of the address of the Medicaid member
Phone	Read only view of the phone number of the Medicaid member
Medicaid ID	The Medicaid identifier entered by the user

Action Involved

The following actions are involved with this component.

1. The Medicaid member has the option to continue with linking with Medicaid if the Medicaid member identity information is presented.
2. The Medicaid member enters their Medicaid ID.
3. If the member continues with valid member identity information presented, the system will perform a Member lookup against the MMIS data (**Query Member Identity API**).
4. The Medicaid member has the option to cancel out of the linking process.

Component-Specific Non-Functional Requirements

1. None.

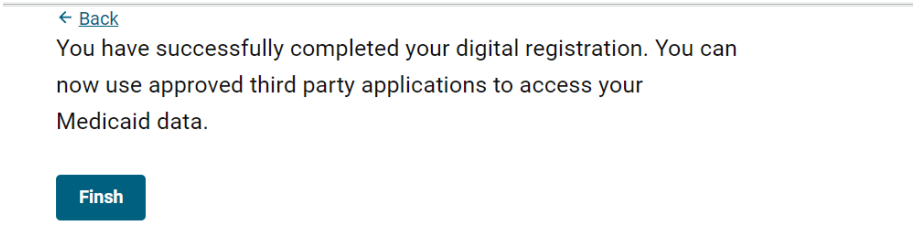
Constraints or Limitations

1. None.

Medicaid Digital Registration - Feed Back Page

This page presents the feed back to the user saying that their request will be reviewed and a decision will be communicated.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI (not displayed to user)
MEMBER_B2C_ID	UUID from the identity verification services
IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

1. Submit - enables the user to complete Medicaid linking. This action stores the Medicaid linkage data.
2. On submit, the database is updated.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Insert Member Identity API

This API adds the Medicaid member's identity information provided by identity services into the CMSI database. This API provides the call back URI for identity services to return the Medicaid member's identity information.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI.
IDME_UUID	The UUID provided by the identity verification services.
IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. The design of this API is available in Swagger.

Query Member Identity API

This API performs a member lookup against the MMIS database.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Medicaid ID	The Medicaid identifier entered by the user.
SSN	The Medicaid member's SSN as provided by identity services.
Date of Birth	The date of birth of the Medicaid member as provided by identity services.

Action Involved

The following actions are involved with this component:

1. None.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

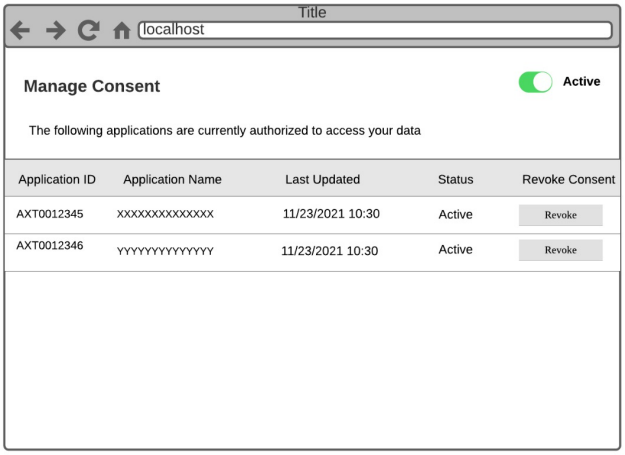
1. The design of this API is available in Swagger.

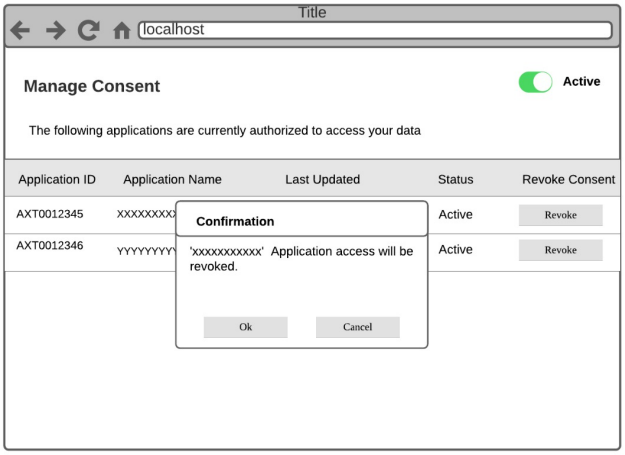
Manage Consent

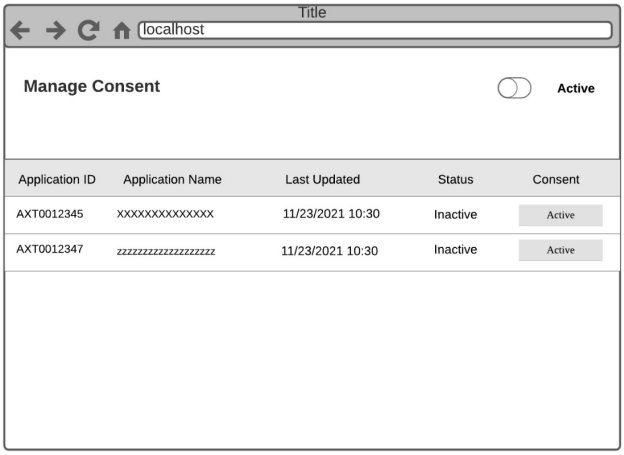
Manage Consent List Page

This page will display a list of applications that the user has consented for access to the user's data via the application. Users can revoke consent from this listing of applications. The list of applications are those in production and made available for third party organizations and developers. The application registration process is managed via IBM API Connect Developer Portal.

Diagram or Screen Design







Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Application ID	identifier of the application
Application Name	The name of the application
Organization	The organization providing the application

Action Involved

The following actions are involved with this component.

1. The user will be able to revoke consent of an application.
2. The user must verify revoking of consent with a second dialog box.
3. The system will retain the date / time and the user ID of the user revoking consent.
4. The user will be able to re-activate an application.

Component-Specific Non-Functional Requirements

Constraints or Limitations

User Administration - NOT PART OF MVP

User Administration List Page - NOT PART OF MVP

Diagram or Screen Design

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS

Actions Involved

The following actions are involved with this component.

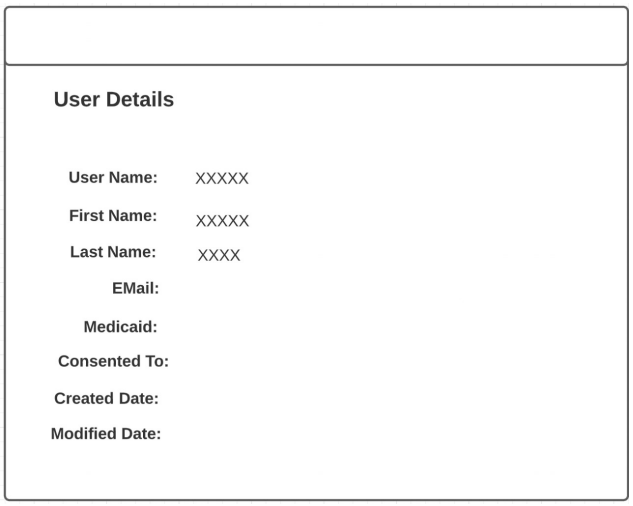
1. Show listing of users
2. Provide ability to filter user list by:
    a. Active / Inactive Status
    b. Name (search user name, first name, and last name)
    c. Medicaid Identifier
    d. Applications Consented To
3. Allow selecting of one or more users to perform bulk operations
4. Bulk operations provided:
    a. De-Activate User
    b. Delete User

Component-Specific Non-Functional Requirements

Constraints or Limitations

User Details - NOT PART OF MVP

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS
User Applications Consented To	List of applications the user has consented
Created Date	Created date of user record
Modified Date	Date when the user record was last modified

Action Involved

The following actions are involved with this component.

1. Revoke consent for a selected application
2. Set user password
3. Update user details:
    a. User Name
    b. User First Name
    c. User Last Name
    d. User Email

Component-Specific Non-Functional Requirements

1. Any change to the user record will be logged.

Constraints or Limitations

1. Medicaid Identifiers cannot be updated or removed from this component.

Non-Functional Requirements

1. None

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Scope

This document provides the design for the Web Application user log in, user registration, Medicaid digital registration, and user administration necessary to support the CMS Interoperability Project. The Web Application provides the ability for State of Nebraska public users (i.e., Medicaid Members) to register for an account and link their user account with their respective Medicaid identifiers. This is a necessary step to enable the user to use third-party provide applications to access Medicaid records. Third Party applications are not within the scope of this Web Application or the specifications provided here in.

Reference Materials and Documents

The following materials and documents are necessary for the Web Application and this design specification.

1. iServe Design Standards
2. Business to Consumer (B2C) templates
3. Application Registration Design - Application Registration Design Document
4. ID.me OIDC Integration Guide v1.1 - (located at: ID.me Files)

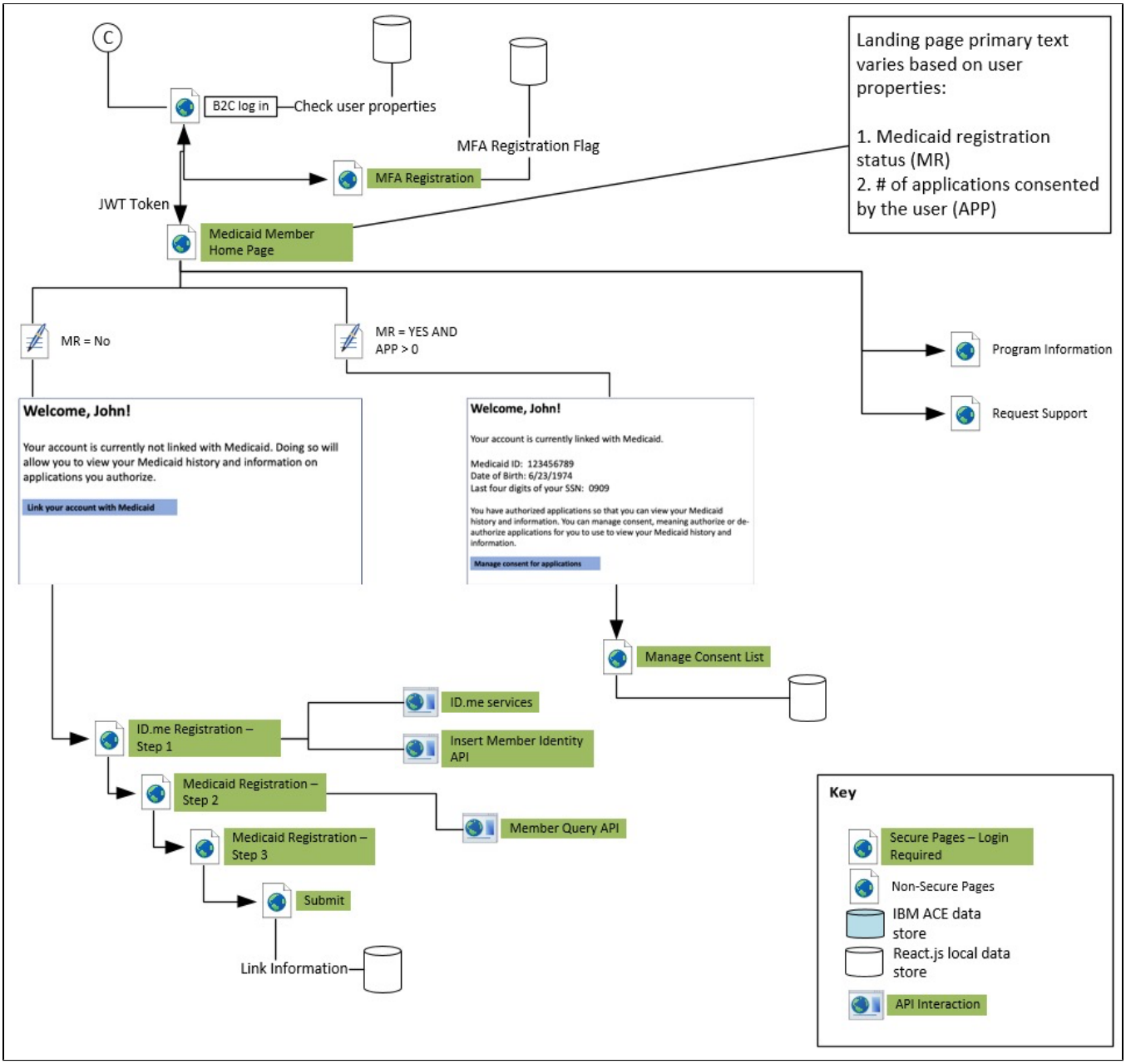
Functional Design

The following subsections provides system pages and components for the following major areas of functionality:

- Log In
- User Registration
- Medicaid Digital Registration
- User Administration

Navigation Overview

The system provides navigation for end users and administrators. The following provides the overall navigation flow for **User Registration**.



Actors or Personas Involved

Actor	Description
Non Registered User	A Medicaid member who has not yet registered with the State's B2C process.
Registered User	A Medicaid member who has registered with the State's B2C process.
MMIS	Enables lookup of user for the purpose of linking the user registration with Medicaid.
Identity Proofing	Verifies the user is identified using an outsourced service provided by ID.me
Multi-Factor Authentication	Requires user to log in with additional data using an outsourced service.
Administrators	Manages users and application consent for users.

System Pages or Components

The following subsections provides system pages and components for the following major areas of functionality:

- Sign In / Sign Up
- Medicaid Digital Registration
- Manage Consent
- Administration

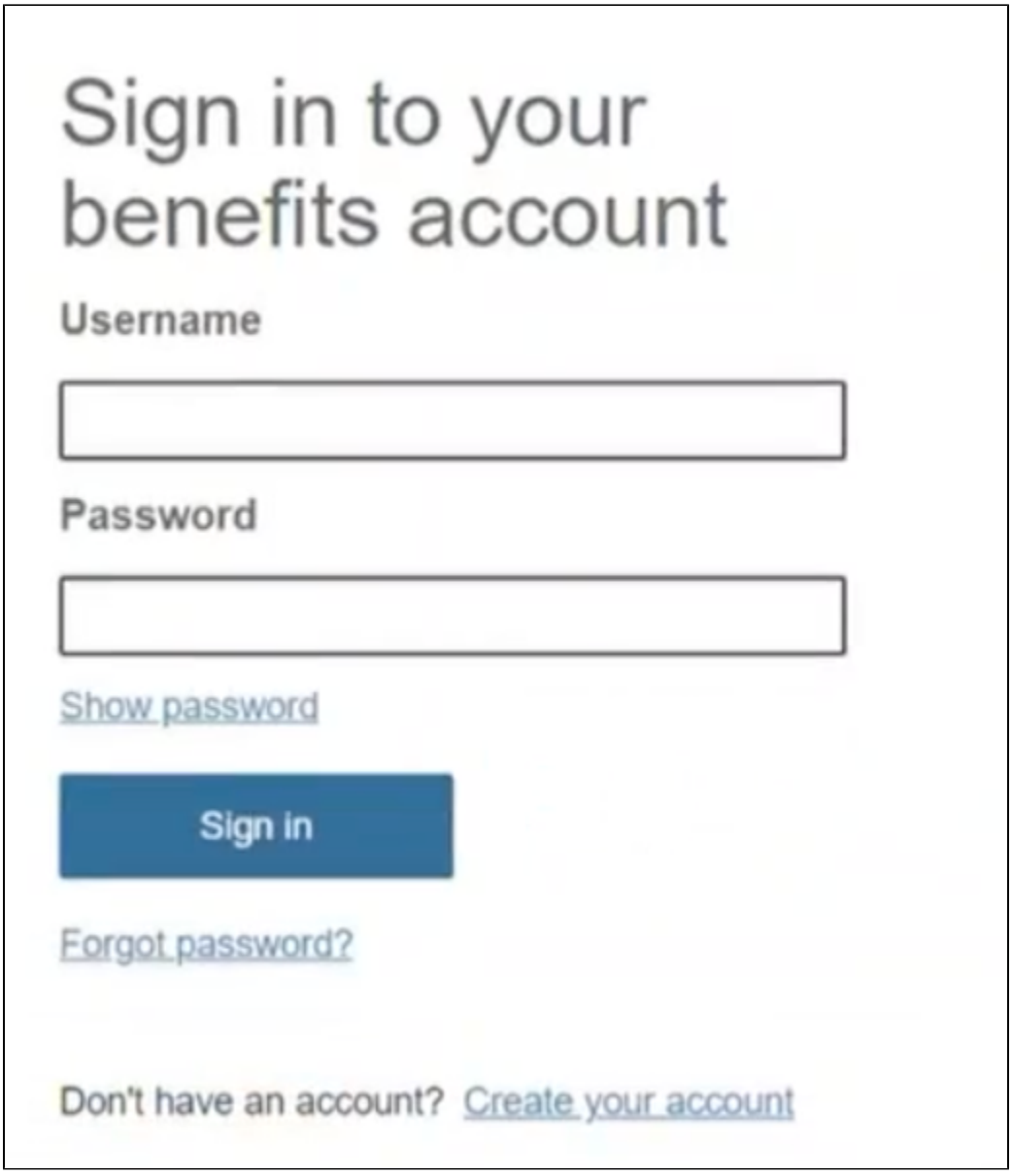
Sign In / Sign Up

Sign In / Sign Up is conducted by the DHHS Business to Consumer (B2C) Azure functionality.

B2C Sign In

This page enables the Medicaid user to sign into their B2C account.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	It is text field and it is mandatory field

Password	It is password field and it is mandatory field
Sign In	Performs Sign In of the user against the B2C database
Create Your Account	Enables Medicaid members to sign up.

Action Involved

The following actions are involved with this component:

1. Sign In to authenticate the Medicaid member

Component-Specific Non-Functional Requirements

1. None.

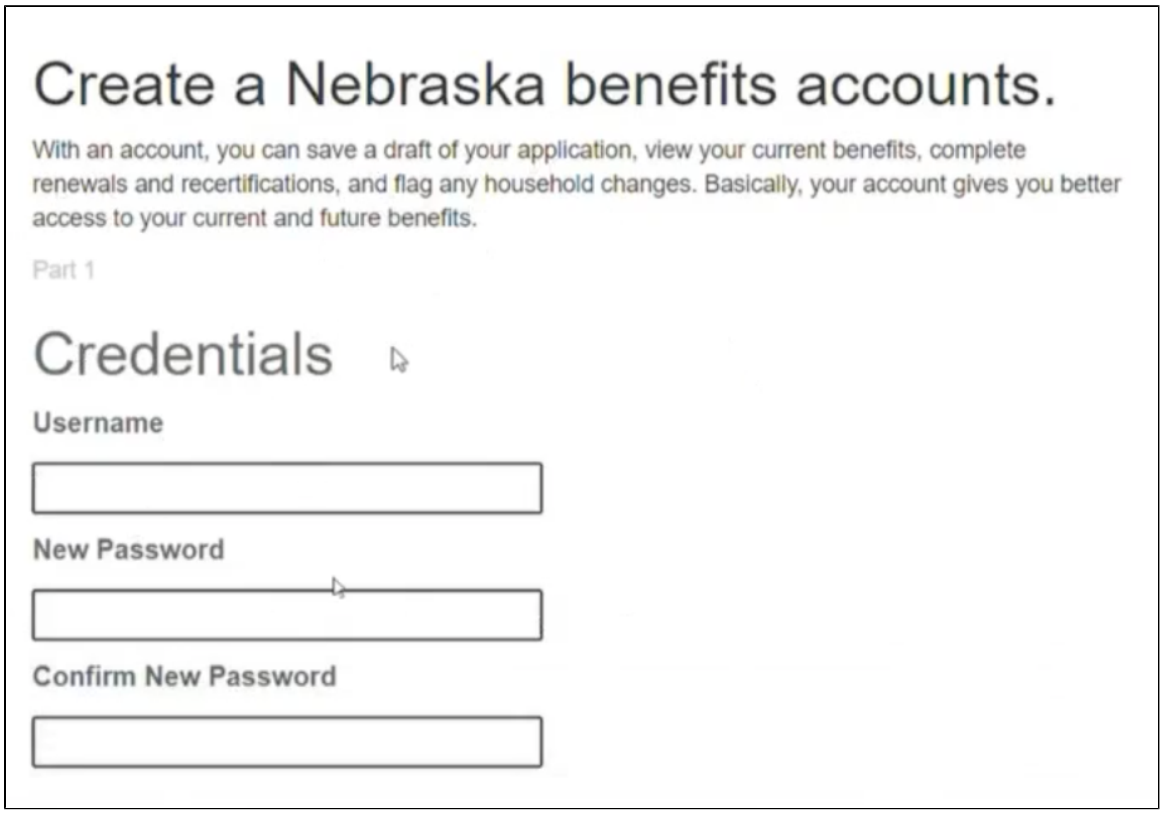
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Sign Up

The Sign Up process leverages DHHS B2C capability to enable Medicaid members to sign up for an account. Account information is shared with iServe Sign Up.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	The user name for the Medicaid member.
Password	User entered password.

Action Involved

The following actions are involved with this component:

1. This is the first of three steps to creating a user account.
2. User name must be unique.

Component-Specific Non-Functional Requirements

1. None.

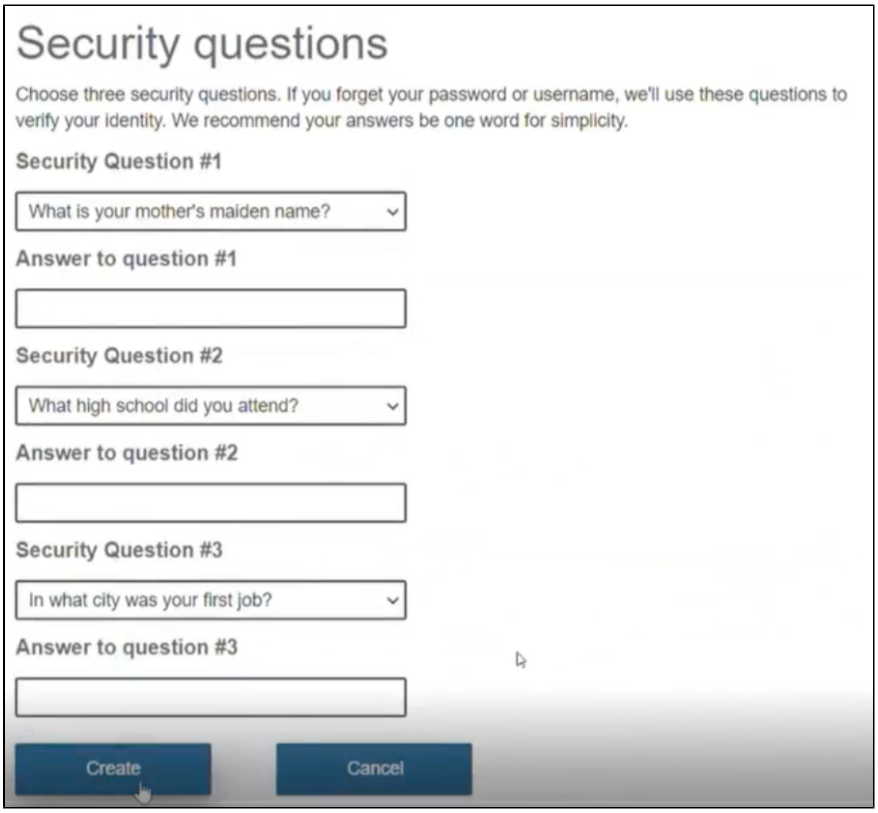
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Security Questions

This page provides three security questions that are used to recover the Medicaid member's account access (i.e., forgotten password).

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Security Questions 1 to 3	Enables the Medicaid member to select answers to three questions.

Action Involved

The following actions are involved with this component:

1. This is the second of three steps to creating a user account.
2. Create user account. Duplicate user accounts are not allows.
3. Cancel to stop the account creation process.

Component-Specific Non-Functional Requirements

1. None

Constraints or Limitations

1. None.

B2C Multi-Factor Authentication

Multi-Factor Authentication (MFA) is required as a first step to linking a Medicaid member's record. This page enables the user to setup MFA. MFA provides an extra layer of security in case the Medicaid member attempts to log in the first time or from a different device.

Diagram or Screen Design

TBD

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MFA Method	The user selects
MFA Data Entry	Mobile phone number or email address to use for MFA verification.
MEMBER_MFAREGISTERED_IND	Stores the MFA registration flag.

Action Involved

The following actions are involved with this component:

1. This is the third of three steps to creating a user account.
2. The Medicaid member selects the method by which they will perform MFA. Typically, this will be a mobile number or email address.
3. The Medicaid member will be prompted a dialog box to turn on MFA.
4. The Medicaid member will be prompted to conduct MFA on first log on or if the Medicaid member is conducting log in from an unrecognized device.

Component-Specific Non-Functional Requirements

1. None.

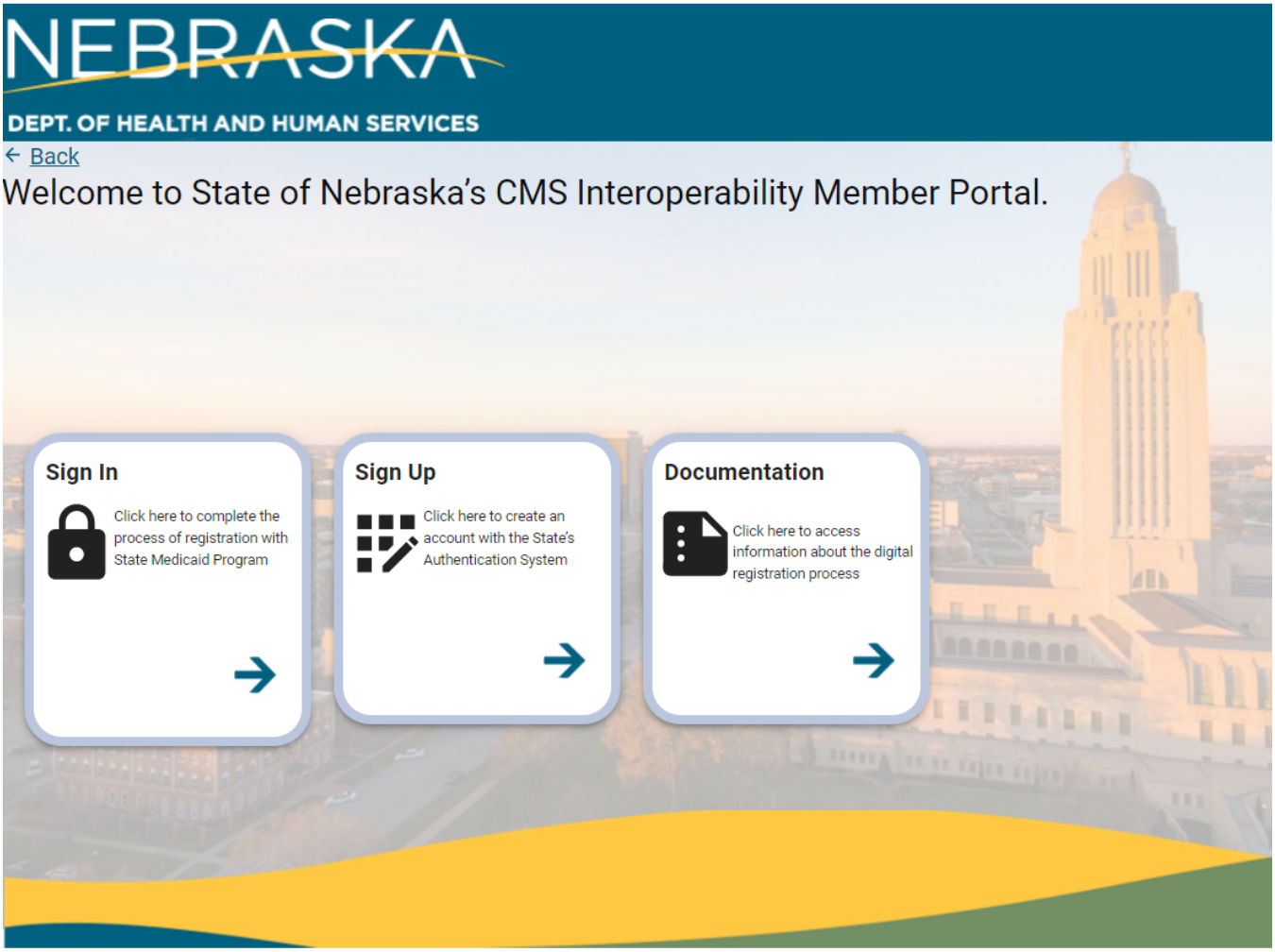
Constraints or Limitations

1. The Azure B2C capability will be extended to add MFA verification. MFA is not used by iServe.
2. The exact MFA methods available will depend on the Azure B2C configuration supported by DHHS.

Medicaid Member Home Page

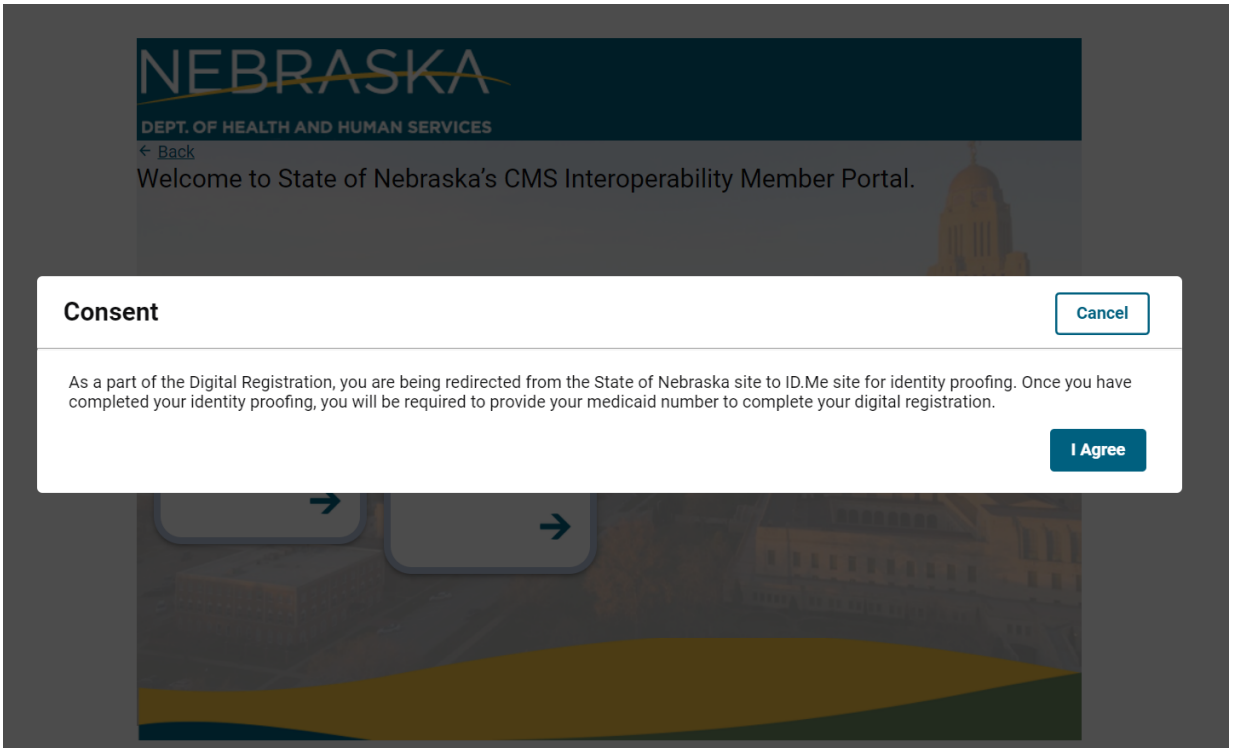
This page provides the home page for Medicaid members. This page can be published as a standalone page and published as a part of the DHHS Member communications process. It can also be launched from the CMS Interoperability Home Page (see **App Registration Design**).

Diagram or Screen Design



When the user successfully Sign In below screen is shown giving them a option to do a Digital registration

When the user click on the Digital Registration then have to read our T&C , if they accept we will allow them to for Digital Registration



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
None	

Action Involved

The following actions are involved with this component.

1. Sign In - Invokes the Sign In process (**Sign In Page** opens).
2. Sign Up - Invokes the Sign Up process (**Sign Up Page** opens).
3. Once the Medicaid member signs in, this page displays text above the tiles based on user properties:
    a. Medicaid registration status (MR)
    b. # of applications consented by the user (APP)
4. If MR = 0
    a. Text = "Your account is currently not linked with Medicaid. Doing so will allow you to view your Medicaid history and information on applications you authorize. "
    b. Button label = "Link your account with Medicaid". This button opens the **Medicaid Digital Registration - Step 1 Page**.
5. If MR > 0 and APP > 0
    a. Text = "Your account is linked with Medicaid. You have authorized applications so that you can view your Medicaid history and information. You can manage consent, meaning authorize or de-authorize applications for you to use to view your Medicaid history and information."
    b. Button label = "Manage consent for applications"
6. Link My Medicaid Account - enables the Medicaid member to link their B2C account with Medicaid (MMIS). By clicking on this tile, the **Medicaid Digital Registration - Step 1 Page** opens.
7. Documentation - view publicly documentation relevant to CMS Interoperability and other guides. NOT PART OF MVP

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

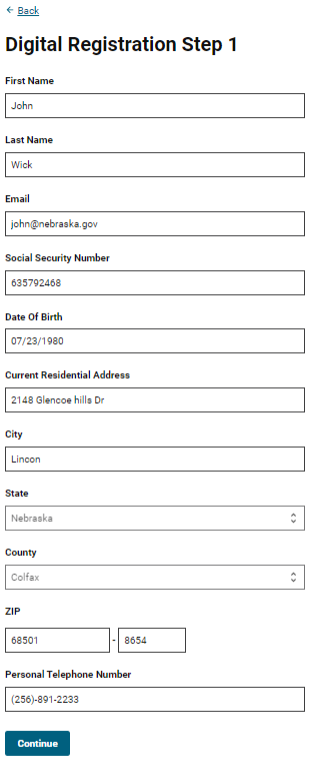
1. None.

Medicaid Digital Registration

ID.me Registration - Step 1

This page enables the user to begin the process of to launch the identity verification service provided by the DHHS selected identity provider, ID.me. (This will be an ID.me webpage where user validates with ID.me). We will show the info we get back from ID.me to the User so they can confirm and move further.

Diagram or Screen Design



Data Elements Involved

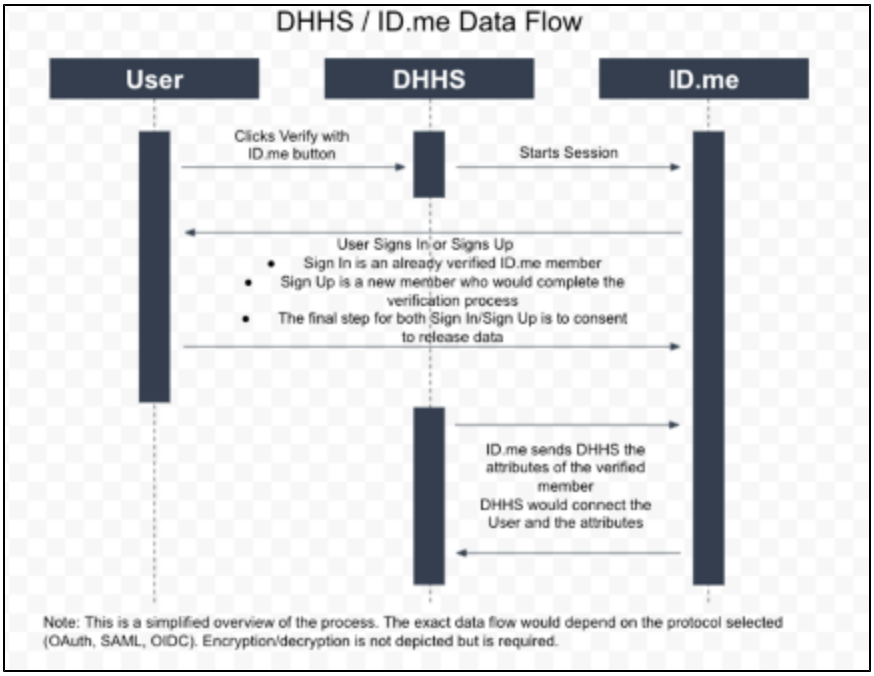
The following data elements are involved with this component.

Data Element	Description
Launch ID.me	This button launches the ID.me identity verification process.

Action Involved

The following actions are involved with this component.

1. This page will present communication/ language that describes why the Medicaid member must perform identity verification. The following provides the text:
    a. TBD
2. ID.me will return the Medicaid member's identity information or an error response code.
3. Registration continues if the Medicaid member's identity information is returned.
4. Otherwise, the error response is displayed and the user will be directed to return to linking Medicaid at a later time.
5. The following flow describes the anticipated interaction with ID.me. At the end of the ID.me self-serve flow, the user consents to release their verified attributes (ex. UUID, name, SSN, date of birth, address, email), and these would be passed back to the Digital Registration application as a verified attribute bundle (AES-256 CBC encrypted) through an open federated identity protocols like SAML 2.0, OAuth 2.0, and OpenID Connect. Digital Registration will record the payload in Azure storage.



Component-Specific Non-Functional Requirements

1. ID.me returns a JSON object that contains the Medicaid member's identity information. This information will be stored in the CMSI database.

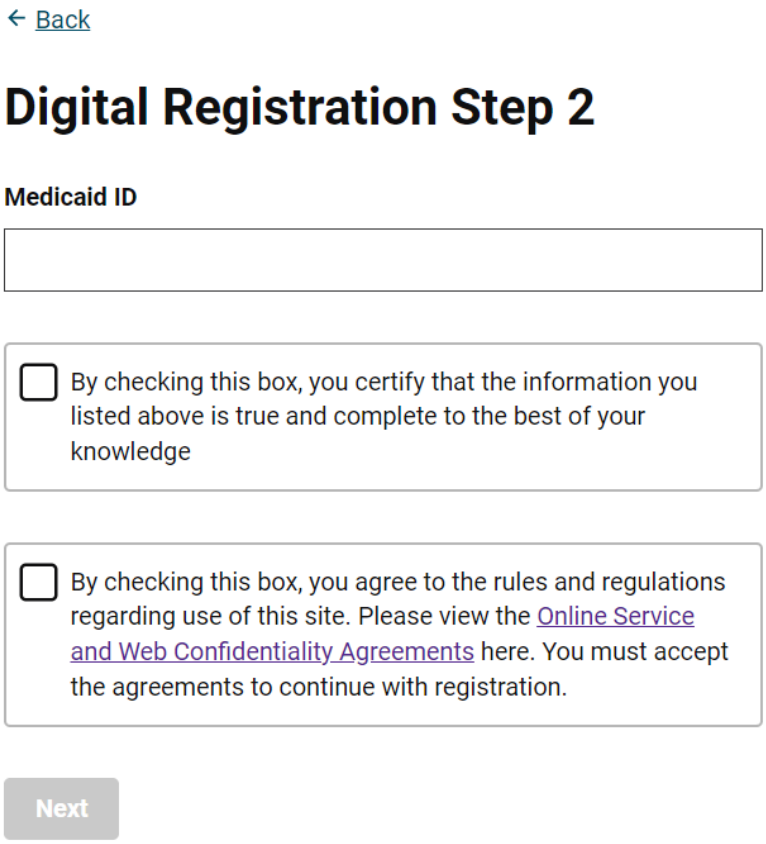
Constraints or Limitations

1. ID.me OpenID Connect Integration provides integration guidance (see Reference section of this document.

Medicaid Digital Registration - Step 2

This page presents the information returned from ID.me and presents a text box for the Medicaid member to enter their Medicaid identifier.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
UUID	Unique identifier from ID.me (not viewed on page)
Email	Read only view of the email address
First Name	Read only view of the first name of the Medicaid member
Middle Name	Read only view of the middle name of the Medicaid member
Last Name	Read only view of the last name of the Medicaid member
Birth Date	Read only view of the date of birth of the Medicaid member
Social Security Number	Read only view of the SSN of the Medicaid member
Address	Read only view of the address of the Medicaid member
Phone	Read only view of the phone number of the Medicaid member
Medicaid ID	The Medicaid identifier entered by the user

Action Involved

The following actions are involved with this component.

1. The Medicaid member has the option to continue with linking with Medicaid if the Medicaid member identity information is presented.
2. The Medicaid member enters their Medicaid ID.
3. If the member continues with valid member identity information presented, the system will perform a Member lookup against the MMIS data (**Query Member Identity API**).
4. The Medicaid member has the option to cancel out of the linking process.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Medicaid Digital Registration - Feed Back Response

This page shows that request has been submitted and someone will verify.

Diagram or Screen Design

TBD

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI (not displayed to user)
MEMBER_B2C_ID	UUID from the identity verification services
IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

1. Submit - enables the user to complete Medicaid linking. This action stores the Medicaid linkage data.
2. On submit, the database is updated.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Insert Member Identity API

This API adds the Medicaid member's identity information provided by identity services into the CMSI database. This API provides the call back URI for identity services to return the Medicaid member's identity information.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI.
IDME_UUID	The UUID provided by the identity verification services.
IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. The design of this API is available in Swagger.

Query Member Identity API

This API performs a member lookup against the MMIS database.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Medicaid ID	The Medicaid identifier entered by the user.
SSN	The Medicaid member's SSN as provided by identity services.
Date of Birth	The date of birth of the Medicaid member as provided by identity services.

Action Involved

The following actions are involved with this component:

1. None.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

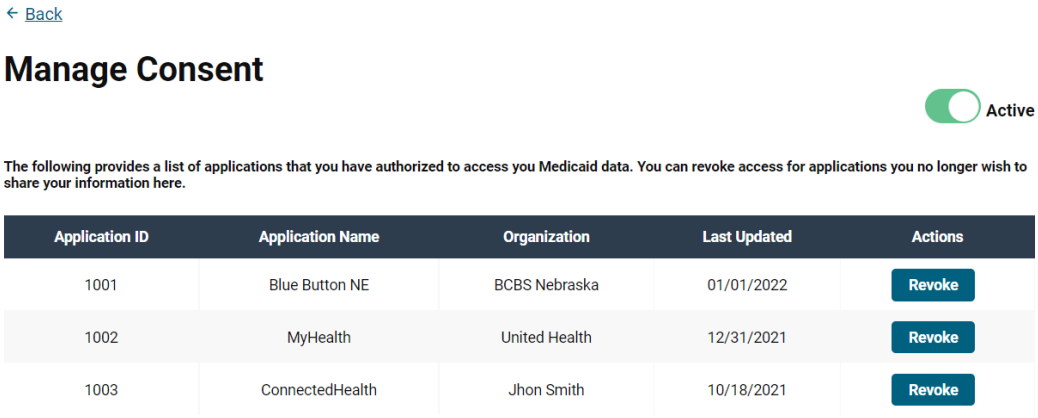
1. The design of this API is available in Swagger.

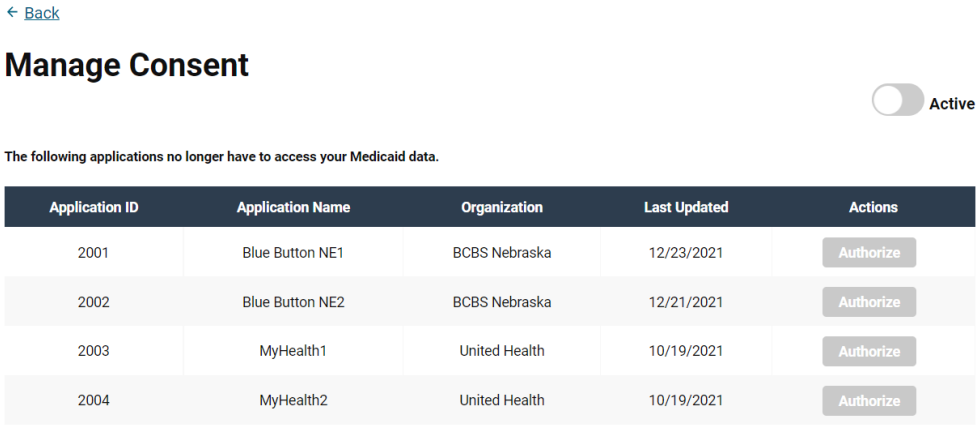
Manage Consent

Manage Consent List Page

This page will display a list of applications that the user has consented for access to the user's data via the application. Users can revoke consent from this listing of applications. The list of applications are those in production and made available for third party organizations and developers. The application registration process is managed via IBM API Connect Developer Portal.

Diagram or Screen Design





Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Application ID	identifier of the application
Application Name	The name of the application
Organization	The organization providing the application
Last Updated	Last Modified Date
Actions	It is a Button for Converting Application to Active/ Inactive state

Action Involved

The following actions are involved with this component.

1. The user will be able to revoke consent of an application.
2. The user must verify revoking of consent with a second dialog box.
3. The system will retain the date / time and the user ID of the user revoking consent.
4. The user will be able to re-activate an application.
5. Active toggle button for show the active / Inactive Application Information in the table

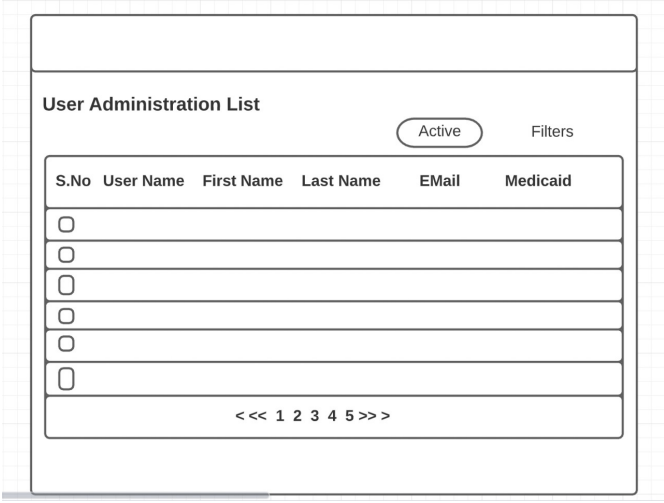
Component-Specific Non-Functional Requirements

Constraints or Limitations

User Administration - NOT PART OF MVP

User Administration List Page - NOT PART OF MVP

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS

Actions Involved

The following actions are involved with this component.

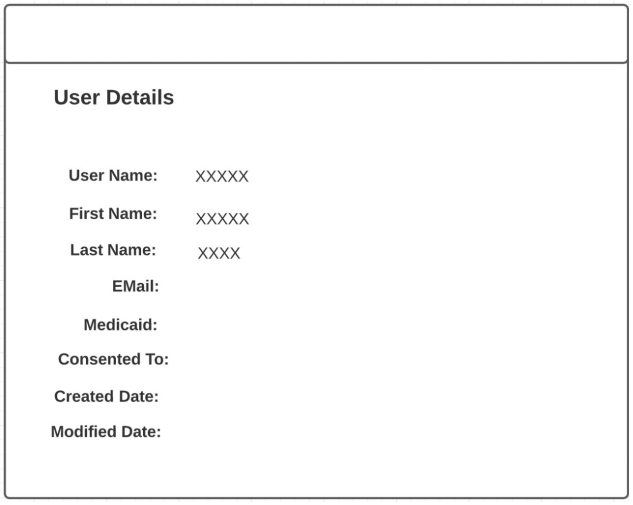
1. Show listing of users
2. Provide ability to filter user list by:
    a. Active / Inactive Status
    b. Name (search user name, first name, and last name)
    c. Medicaid Identifier
    d. Applications Consented To
3. Allow selecting of one or more users to perform bulk operations
4. Bulk operations provided:
    a. De-Activate User
    b. Delete User

Component-Specific Non-Functional Requirements

Constraints or Limitations

User Details - NOT PART OF MVP

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS
User Applications Consented To	List of applications the user has consented
Created Date	Created date of user record
Modified Date	Date when the user record was last modified

Action Involved

The following actions are involved with this component.

1. Revoke consent for a selected application
2. Set user password
3. Update user details:
    a. User Name
    b. User First Name
    c. User Last Name
    d. User Email

Component-Specific Non-Functional Requirements

1. Any change to the user record will be logged.

Constraints or Limitations

1. Medicaid Identifiers cannot be updated or removed from this component.

Non-Functional Requirements

1. None

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Scope

This document provides the design for the Web Application user log in, user registration, Medicaid digital registration, and user administration necessary to support the CMS Interoperability Project. The Web Application provides the ability for State of Nebraska public users (i.e., Medicaid Members) to register for an account and link their user account with their respective Medicaid identifiers. This is a necessary step to enable the user to use third-party provide applications to access Medicaid records. Third Party applications are not within the scope of this Web Application or the specifications provided here in.

Reference Materials and Documents

The following materials and documents are necessary for the Web Application and this design specification.

1. iServe Design Standards
2. Business to Consumer (B2C) templates
3. Application Registration Design - Application Registration Design Document
4. ID.me OIDC Integration Guide v1.1 - (located at: ID.me Files)

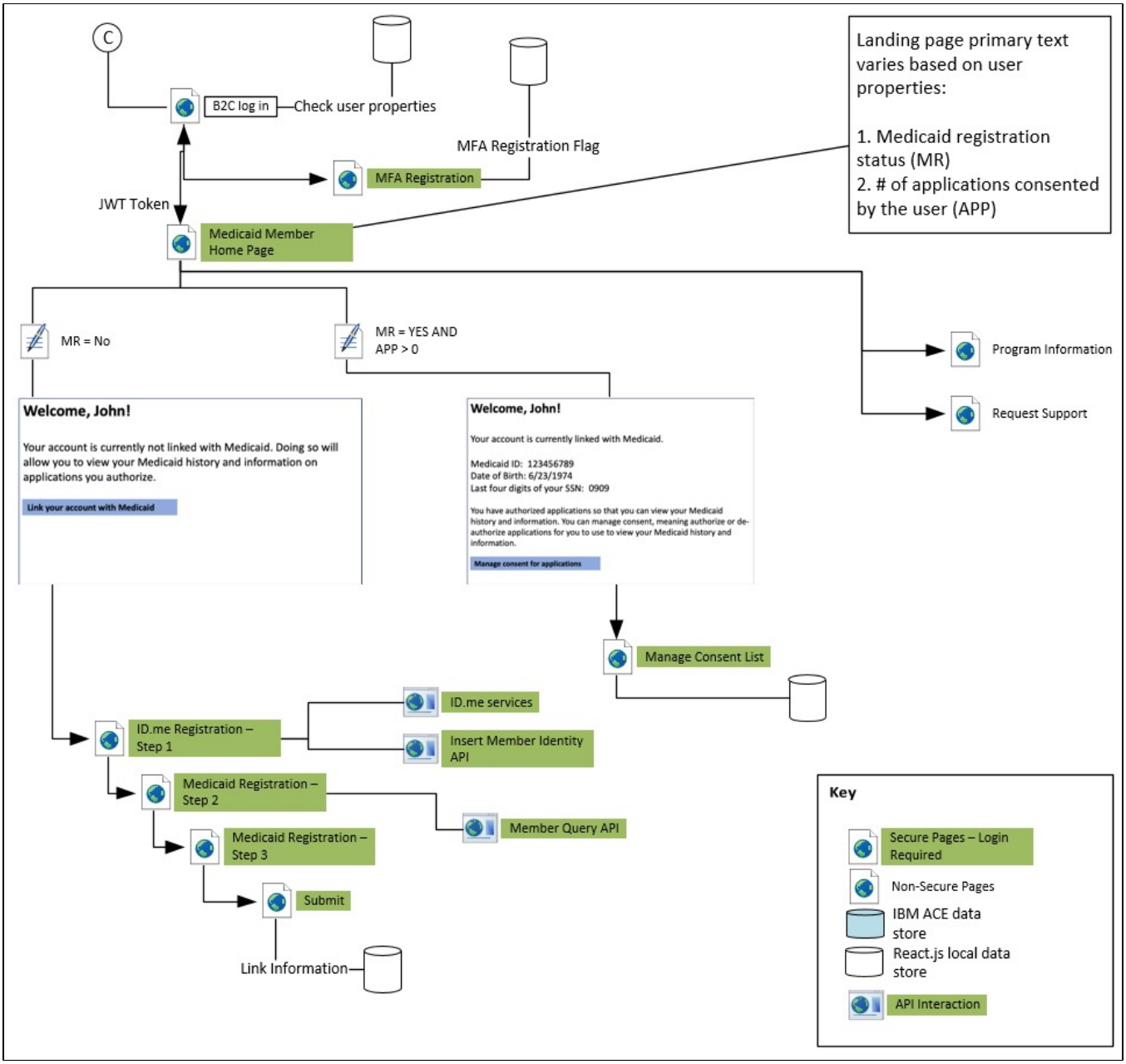
Functional Design

The following subsections provides system pages and components for the following major areas of functionality:

- Log In
- User Registration
- Medicaid Digital Registration
- User Administration

Navigation Overview

The system provides navigation for end users and administrators. The following provides the overall navigation flow for **User Registration**.



Actors or Personas Involved

Actor	Description
Non Registered User	A Medicaid member who has not yet registered with the State's B2C process.
Registered User	A Medicaid member who has registered with the State's B2C process.
MMIS	Enables lookup of user for the purpose of linking the user registration with Medicaid.
Identity Proofing	Verifies the user is identified using an outsourced service provided by ID.me
Multi-Factor Authentication	Requires user to log in with additional data using an outsourced service.
Administrators	Manages users and application consent for users.

System Pages or Components

The following subsections provides system pages and components for the following major areas of functionality:

- Sign In / Sign Up
- Medicaid Digital Registration
- Manage Consent
- Administration

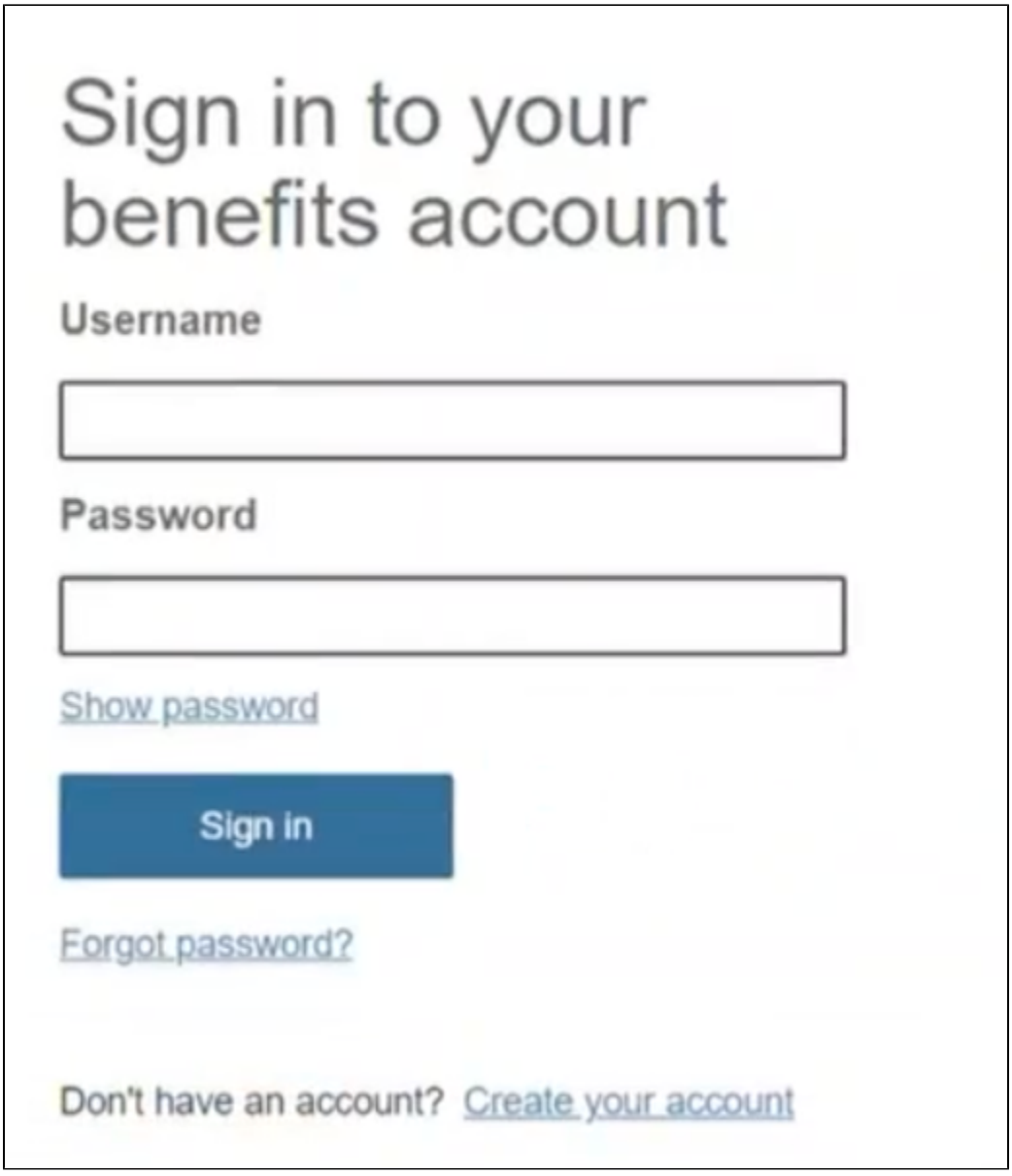
Sign In / Sign Up

Sign In / Sign Up is conducted by the DHHS Business to Consumer (B2C) Azure functionality.

B2C Sign In

This page enables the Medicaid user to sign into their B2C account.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	It is text field and it is mandatory field

Password	It is password field and it is mandatory field
Sign In	Performs Sign In of the user against the B2C database
Create Your Account	Enables Medicaid members to sign up.

Action Involved

The following actions are involved with this component:

1. Sign In to authenticate the Medicaid member

Component-Specific Non-Functional Requirements

1. None.

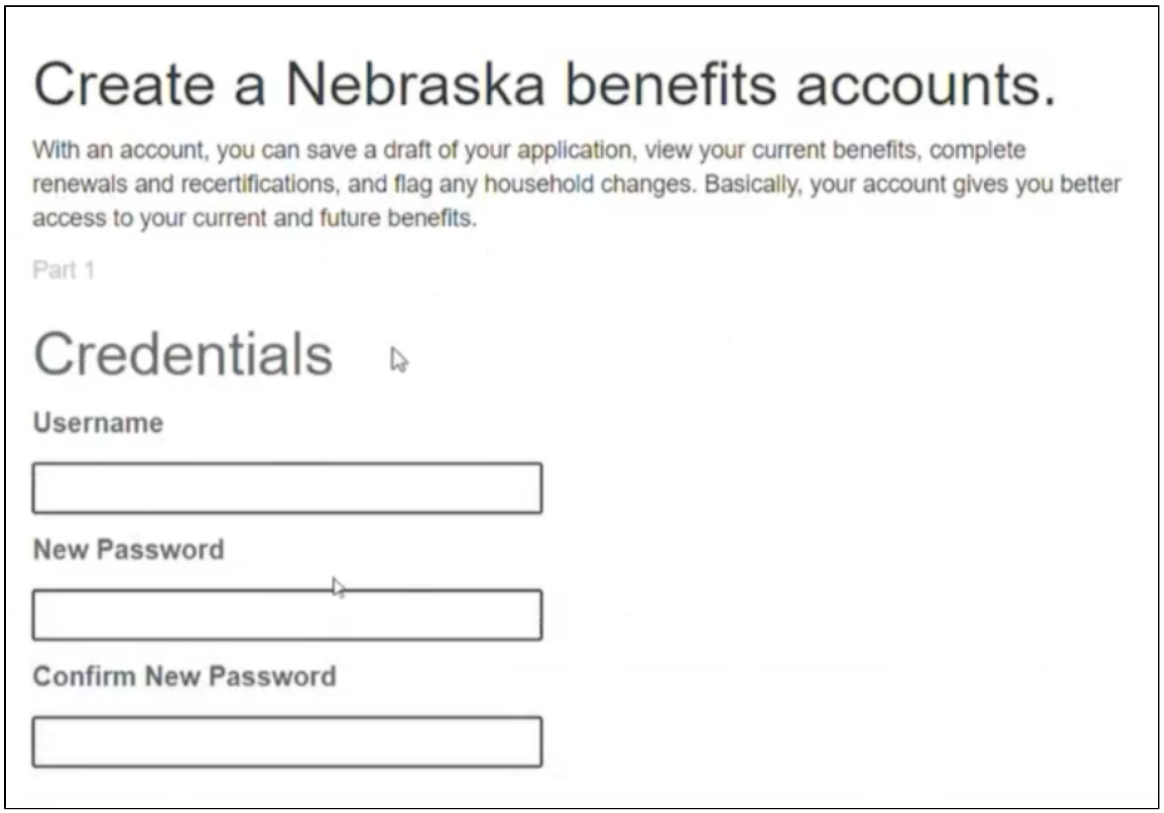
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Sign Up

The Sign Up process leverages DHHS B2C capability to enable Medicaid members to sign up for an account. Account information is shared with iServe Sign Up.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	The user name for the Medicaid member.
Password	User entered password.

Action Involved

The following actions are involved with this component:

1. This is the first of three steps to creating a user account.
2. User name must be unique.

Component-Specific Non-Functional Requirements

1. None.

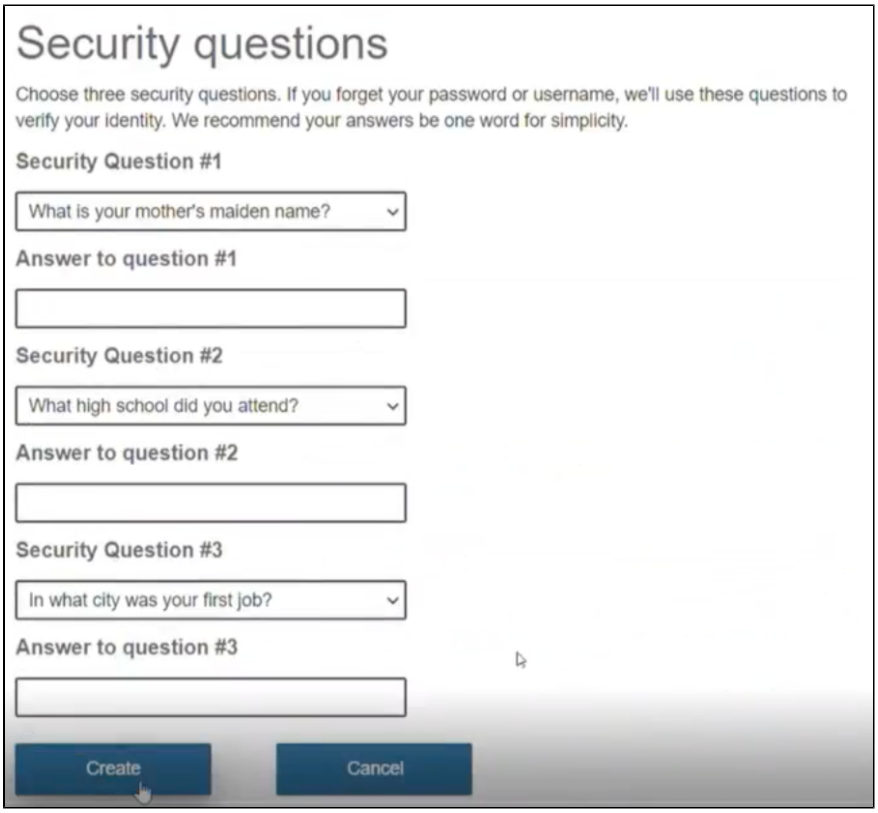
Constraints or Limitations

1. The iServe B2C policy and configuration are re-used for CMSI Sign In / Sign Up. While this makes Sign In / Sign Up consistent, technical processes must ensure that policy changes are continually synchronized.

B2C Security Questions

This page provides three security questions that are used to recover the Medicaid member's account access (i.e., forgotten password).

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Security Questions 1 to 3	Enables the Medicaid member to select answers to three questions.

Action Involved

The following actions are involved with this component:

1. This is the second of three steps to creating a user account.
2. Create user account. Duplicate user accounts are not allows.
3. Cancel to stop the account creation process.

Component-Specific Non-Functional Requirements

1. None

Constraints or Limitations

1. None.

B2C Multi-Factor Authentication

Multi-Factor Authentication (MFA) is required as a first step to linking a Medicaid member's record. This page enables the user to setup MFA. MFA provides an extra layer of security in case the Medicaid member attempts to log in the first time or from a different device.

Diagram or Screen Design

TBD

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MFA Method	The user selects
MFA Data Entry	Mobile phone number or email address to use for MFA verification.
MEMBER_MFAREGISTERED_IND	Stores the MFA registration flag.

Action Involved

The following actions are involved with this component:

1. This is the third of three steps to creating a user account.
2. The Medicaid member selects the method by which they will perform MFA. Typically, this will be a mobile number or email address.
3. The Medicaid member will be prompted a dialog box to turn on MFA.
4. The Medicaid member will be prompted to conduct MFA on first log on or if the Medicaid member is conducting log in from an unrecognized device.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. The Azure B2C capability will be extended to add MFA verification. MFA is not used by iServe.
2. The exact MFA methods available will depend on the Azure B2C configuration supported by DHHS.

Medicaid Member Home Page

This page provides the home page for Medicaid members. This page can be published as a standalone page and published as a part of the DHHS Member communications process. It can also be launched from the CMS Interoperabilty Home Page (see App Registration Design).

Diagram or Screen Design

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
None	

Action Involved

The following actions are involved with this component.

1. Sign In - Invokes the Sign In process (**Sign In Page** opens).
2. Sign Up - Invokes the Sign Up process (**Sign Up Page** opens).
3. Once the Medicaid member signs in, this page displays text above the tiles based on user properties:
    a. Medicaid registration status (MR)
    b. # of applications consented by the user (APP)
4. If MR = 0
    a. Text = "Your account is currently not linked with Medicaid. Doing so will allow you to view your Medicaid history and information on applications you authorize. "
    b. Button label = "Link your account with Medicaid". This button opens the **Medicaid Digital Registration - Step 1 Page**.
5. If MR > 0 and APP > 0
    a. Text = "Your account is linked with Medicaid. You have authorized applications so that you can view your Medicaid history and information. You can manage consent, meaning authorize or de-authorize applications for you to use to view your Medicaid history and information."
    b. Button label = "Manage consent for applications"
6. Link My Medicaid Account - enables the Medicaid member to link their B2C account with Medicaid (MMIS). By clicking on this tile, the **Medicaid Digital Registration - Step 1 Page** opens.
7. Documentation - view publicly documentation relevant to CMS Interoperability and other guides. NOT PART OF MVP

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Medicaid Digital Registration

ID.me Registration - Step 1

This page enables the user to begin the process of to launch the identity verification service provided by the DHHS selected identity provider, ID.me.

Diagram or Screen Design

TBD

Data Elements Involved

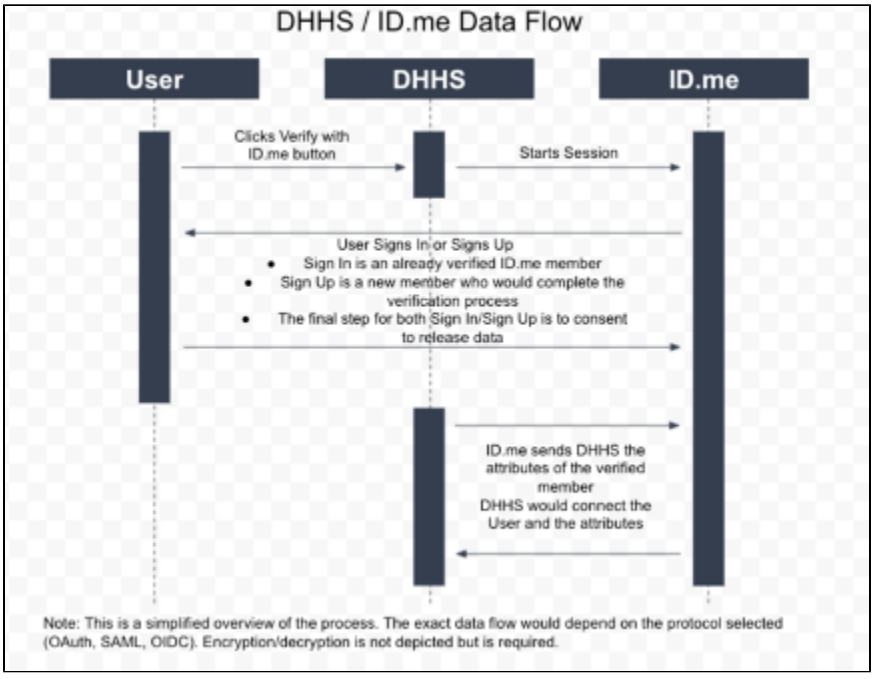
The following data elements are involved with this component.

Data Element	Description
Launch ID.me	This button launches the ID.me identity verification process.

Action Involved

The following actions are involved with this component.

1. This page will present communication/ language that describes why the Medicaid member must perform identity verification. The following provides the text:
    a. TBD
2. ID.me will return the Medicaid member's identity information or an error response code.
3. Registration continues if the Medicaid member's identity information is returned.
4. Otherwise, the error response is displayed and the user will be directed to return to linking Medicaid at a later time.
5. The following flow describes the anticipated interaction with ID.me. At the end of the ID.me self-serve flow, the user consents to release their verified attributes (ex. UUID, name, SSN, date of birth, address, email), and these would be passed back to the Digital Registration application as a verified attribute bundle (AES-256 CBC encrypted) through an open federated identity protocols like SAML 2.0, OAuth 2.0, and OpenID Connect. Digital Registration will record the payload in Azure storage.



Component-Specific Non-Functional Requirements

1. ID.me returns a JSON object that contains the Medicaid member's identity information. This information will be stored in the CMSI database.

Constraints or Limitations

1. ID.me OpenID Connect Integration provides integration guidance (see Reference section of this document.

Medicaid Digital Registration - Step 2

This page presents the information returned from ID.me and presents a text box for the Medicaid member to enter their Medicaid identifier.

Diagram or Screen Design

TBD

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
UUID	Unique identifier from ID.me (not viewed on page)
Email	Read only view of the email address
First Name	Read only view of the first name of the Medicaid member
Middle Name	Read only view of the middle name of the Medicaid member
Last Name	Read only view of the last name of the Medicaid member
Birth Date	Read only view of the date of birth of the Medicaid member
Social Security Number	Read only view of the SSN of the Medicaid member
Address	Read only view of the address of the Medicaid member
Phone	Read only view of the phone number of the Medicaid member
Medicaid ID	The Medicaid identifier entered by the user

Action Involved

The following actions are involved with this component.

1. The Medicaid member has the option to continue with linking with Medicaid if the Medicaid member identity information is presented.
2. The Medicaid member enters their Medicaid ID.
3. If the member continues with valid member identity information presented, the system will perform a Member lookup against the MMIS data (**Query Member Identity API**).
4. The Medicaid member has the option to cancel out of the linking process.

Component-Specific Non-Functional Requirements

1. None.

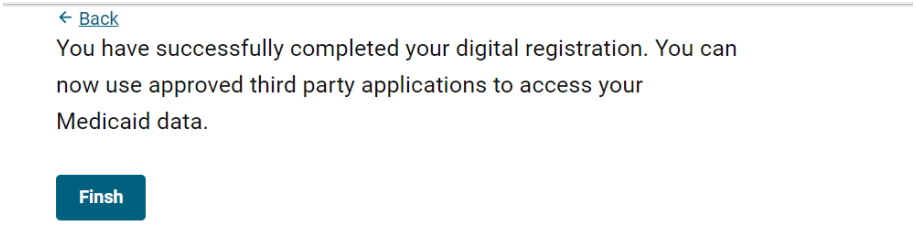
Constraints or Limitations

1. None.

Medicaid Digital Registration - Feed Back Page

This page presents the feed back to the user saying that their request will be reviewed and a decision will be communicated.

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI (not displayed to user)
MEMBER_B2C_ID	UUID from the identity verification services
IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

1. Submit - enables the user to complete Medicaid linking. This action stores the Medicaid linkage data.
2. On submit, the database is updated.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. None.

Insert Member Identity API

This API adds the Medicaid member's identity information provided by identity services into the CMSI database. This API provides the call back URI for identity services to return the Medicaid member's identity information.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
MEMBER_ID	Internal Medicaid member's identifier generated by CMSI.
IDME_UUID	The UUID provided by the identity verification services.
IDME_EMAIL	The email address for the Medicaid member provided by the identity verification services.
IDME_FIRSTNAME	The first name for the Medicaid member provided by the identity verification services.
IDME_MIDDLENAME	The middle name the Medicaid member provided by the identity verification services.
IDME_LASTNAME	The last name for the Medicaid member provided by the identity verification services.
IDME_DOB	The date of birth for the Medicaid member provided by the identity verification services.
IDME_SSN	The SSN for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE1	The address line 1 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE2	The address line 2 for the Medicaid member provided by the identity verification services.
IDME_USERADDRLNE3	The address line 3 for the Medicaid member provided by the identity verification services.
IDME_USERADDRCITY	The city for the Medicaid member provided by the identity verification services.
IDME_USERADDRST	The state for the Medicaid member provided by the identity verification services.
IDME_USERADDRZIP	The zip code (5+4) for the Medicaid member provided by the identity verification services.
IDME_PHONE	The phone number for the Medicaid member provided by the identity verification services.

Action Involved

The following actions are involved with this component.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

1. The design of this API is available in Swagger.

Query Member Identity API

This API performs a member lookup against the MMIS database.

Diagram or Screen Design

<No Diagram>

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Medicaid ID	The Medicaid identifier entered by the user.
SSN	The Medicaid member's SSN as provided by identity services.
Date of Birth	The date of birth of the Medicaid member as provided by identity services.

Action Involved

The following actions are involved with this component:

1. None.

Component-Specific Non-Functional Requirements

1. None.

Constraints or Limitations

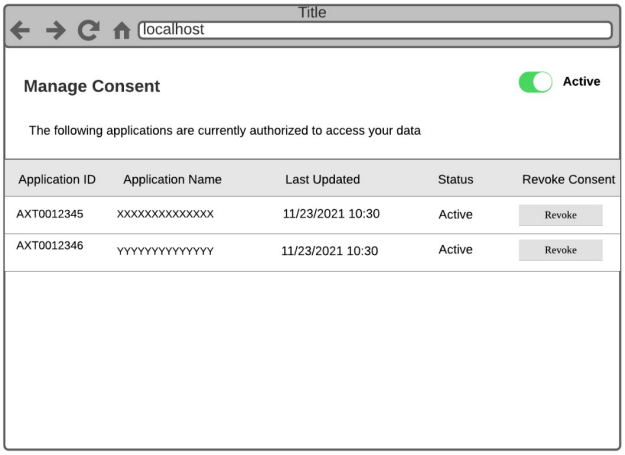
1. The design of this API is available in Swagger.

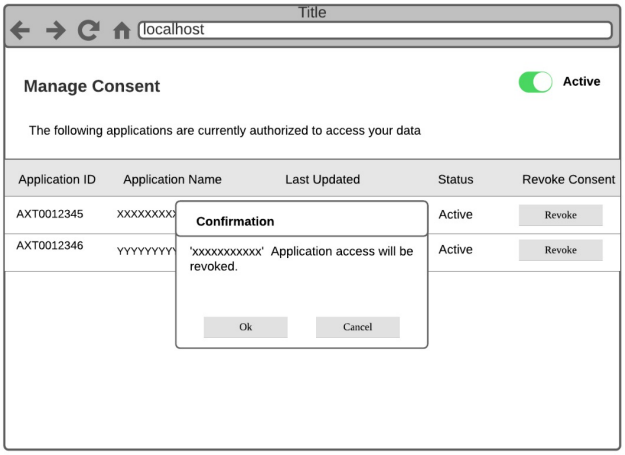
Manage Consent

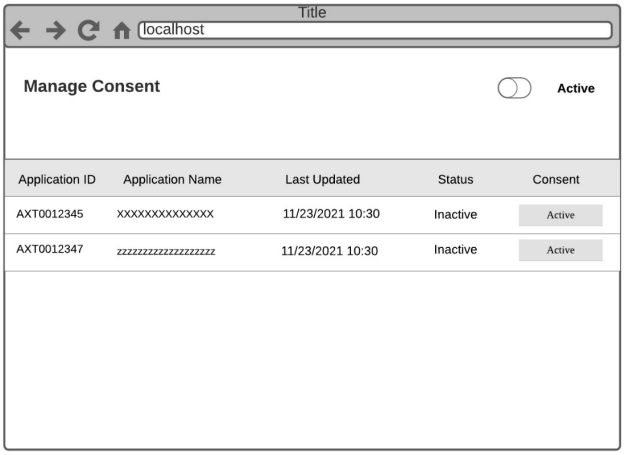
Manage Consent List Page

This page will display a list of applications that the user has consented for access to the user's data via the application. Users can revoke consent from this listing of applications. The list of applications are those in production and made available for third party organizations and developers. The application registration process is managed via IBM API Connect Developer Portal.

Diagram or Screen Design







Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
Application ID	identifier of the application
Application Name	The name of the application
Organization	The organization providing the application

Action Involved

The following actions are involved with this component.

1. The user will be able to revoke consent of an application.
2. The user must verify revoking of consent with a second dialog box.
3. The system will retain the date / time and the user ID of the user revoking consent.
4. The user will be able to re-activate an application.

Component-Specific Non-Functional Requirements

Constraints or Limitations

User Administration - NOT PART OF MVP

User Administration List Page - NOT PART OF MVP

Diagram or Screen Design

Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS

Actions Involved

The following actions are involved with this component.

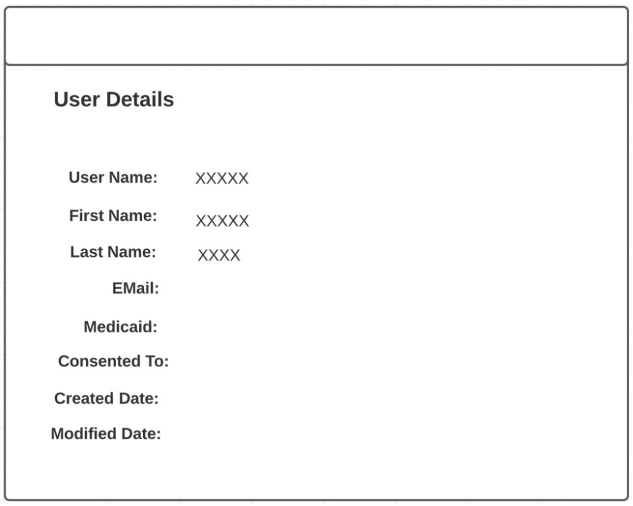
1. Show listing of users
2. Provide ability to filter user list by:
    a. Active / Inactive Status
    b. Name (search user name, first name, and last name)
    c. Medicaid Identifier
    d. Applications Consented To
3. Allow selecting of one or more users to perform bulk operations
4. Bulk operations provided:
    a. De-Activate User
    b. Delete User

Component-Specific Non-Functional Requirements

Constraints or Limitations

User Details - NOT PART OF MVP

Diagram or Screen Design



Data Elements Involved

The following data elements are involved with this component.

Data Element	Description
User Name	Used for logging on to the system
User First Name	Given name of the user
User Last Name	Family name of the user
User Email	Email address of the user
User Medicaid Identifiers	List of identifiers from MMIS
User Applications Consented To	List of applications the user has consented
Created Date	Created date of user record
Modified Date	Date when the user record was last modified

Action Involved

The following actions are involved with this component.

1. Revoke consent for a selected application
2. Set user password
3. Update user details:
    a. User Name
    b. User First Name
    c. User Last Name
    d. User Email

Component-Specific Non-Functional Requirements

1. Any change to the user record will be logged.

Constraints or Limitations

1. Medicaid Identifiers cannot be updated or removed from this component.

Non-Functional Requirements

1. None