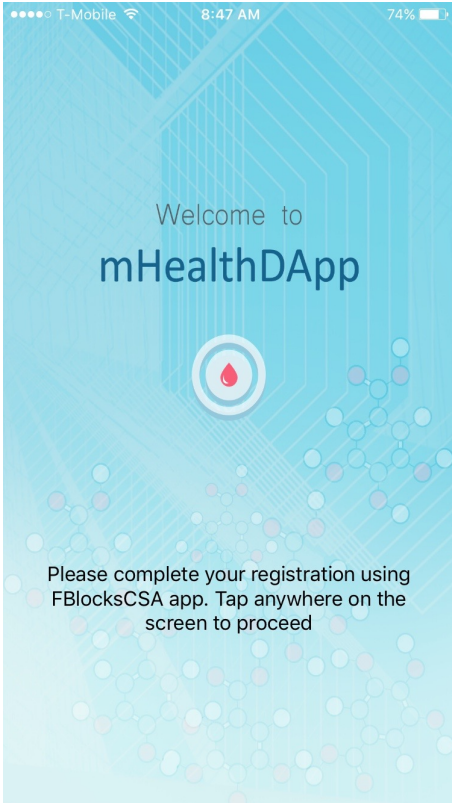
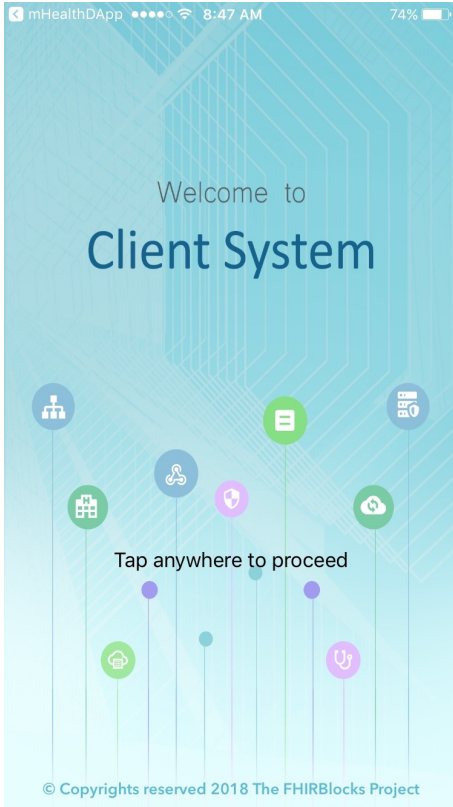


[mHealthDApp Usability Document](#)

Regarding device compatibility of the current code, following is the list of devices the app is tested on as of now.

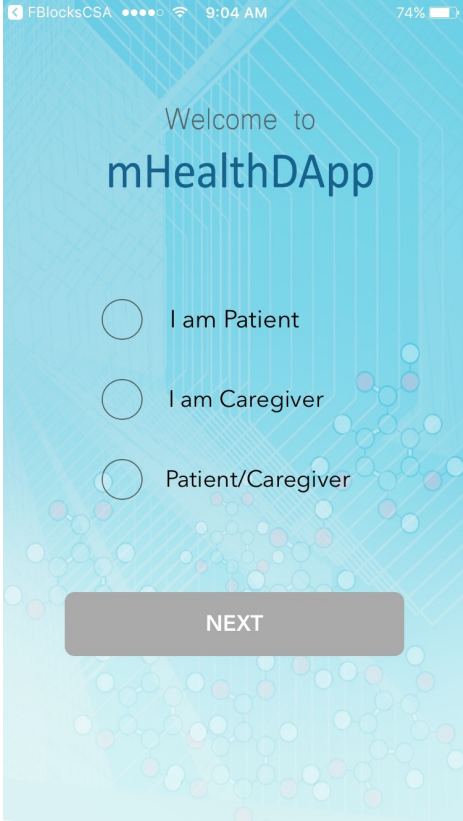
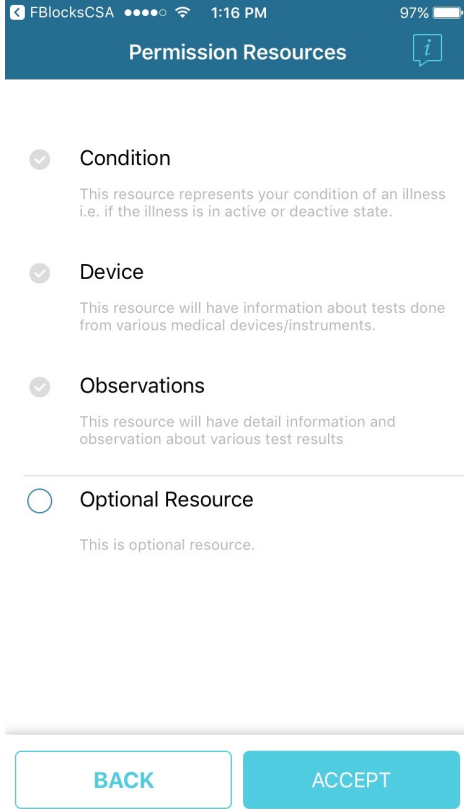
1. iPhone 6
2. iPhone 6 Plus
3. iPhone 6s
4. iPhone 6s Plus
5. iPhone 7
6. iPhone 7 Plus
7. iPhone 8
8. iPhone 8 Plus

mHealthDApp Installation: Usability flow in the case of FBlocksCSA app is not installed on the device

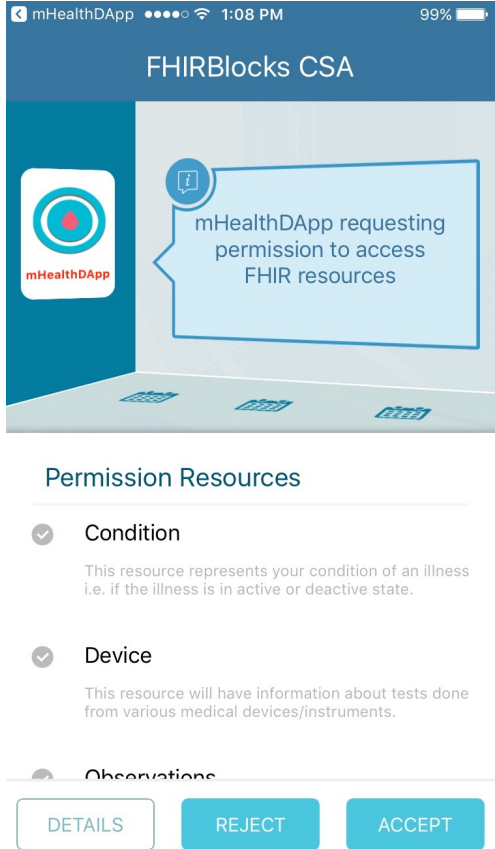
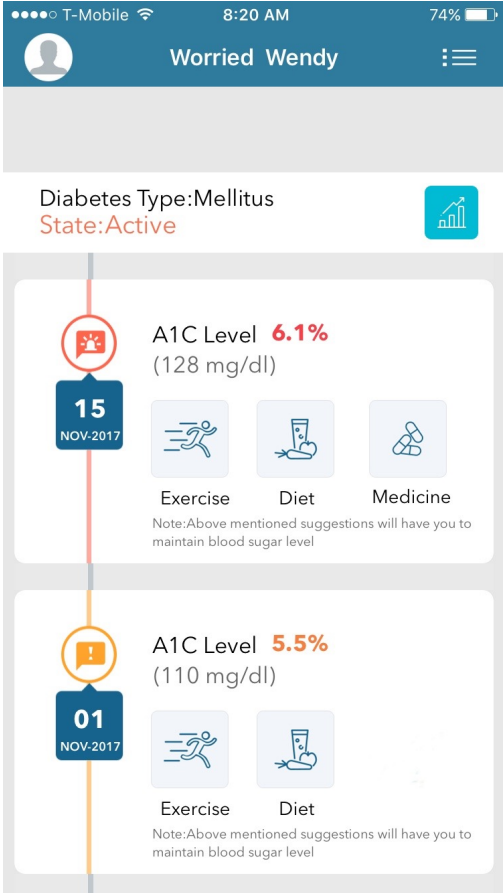
User Action	Resulting Page	Functionality
 <p>The image shows the 'Welcome to mHealthDApp' screen. It features a blue background with a network-like pattern of dots and lines. A central circular icon contains a red drop. Text at the bottom reads: 'Please complete your registration using FBlocksCSA app. Tap anywhere on the screen to proceed'.</p>	 <p>The image shows the 'Welcome to Client System' screen. It has a similar blue background with network patterns. Below the title, there are several colorful circular icons representing different system components. Text in the center says 'Tap anywhere to proceed'. At the bottom, it says '© Copyrights reserved 2018 The FHIRBlocks Project'.</p>	<p>Present user with the page to install the FBlocksCSA app and take the user through the complete installation of the FBlocksCSA app.</p> <p>Note: Please refer to the document titled “FBlocksCSA Usability doc” for the step by step guidance of it installation and the registration of the user.</p>

Protocol Activities: SMOAC protocol calls made

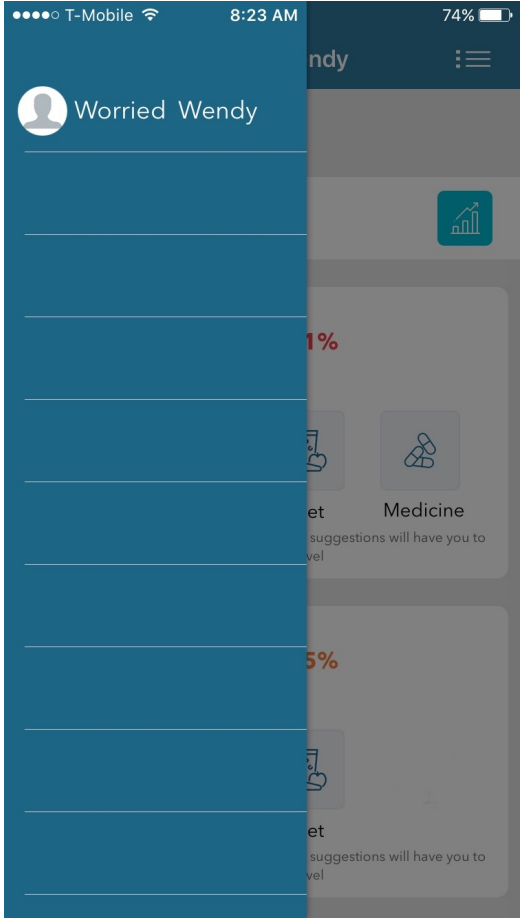
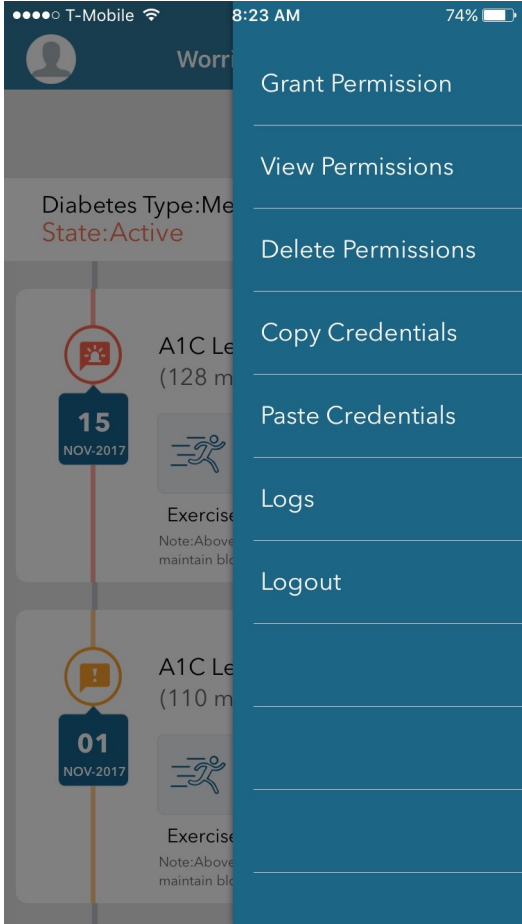
All housekeeping calls namely made by mHealthDApp:
 /util/ping
 /util/getFhirBlocksNodeInfo

User Action	Resulting Page	Functionality
 <p>The screenshot shows the 'Welcome to mHealthDApp' screen. It features a blue background with a network diagram. There are three radio button options: 'I am Patient', 'I am Caregiver', and 'Patient/Caregiver'. A 'NEXT' button is at the bottom.</p>	 <p>The screenshot shows the 'Permission Resources' screen. It has a blue header. Below it, there are four options, each with a checked radio button: 'Condition' (with a description: 'This resource represents your condition of an illness i.e. if the illness is in active or deactive state.'), 'Device' (with a description: 'This resource will have information about tests done from various medical devices/instruments.'), 'Observations' (with a description: 'This resource will have detail information and observation about various test results'), and 'Optional Resource' (with a description: 'This is optional resource.'). At the bottom, there are 'BACK' and 'ACCEPT' buttons.</p>	<p>Capture the resources that the user would like to permission for this particular mHealthDApp.</p> <p>The generally will contain a set of mandatory resources and a list of optional resources that user may or may not choose to permit. An example is represented in the 2nd cell of this table.</p> <p><u>Dummy stubbed out stuff:</u> Currently random resources have been chosen for demonstration purposes. For GoToMarket actual real resources with the required biz logic code implementation is done as per customer requirements. Implemented by FhirBlocks Services Company or partner)</p>

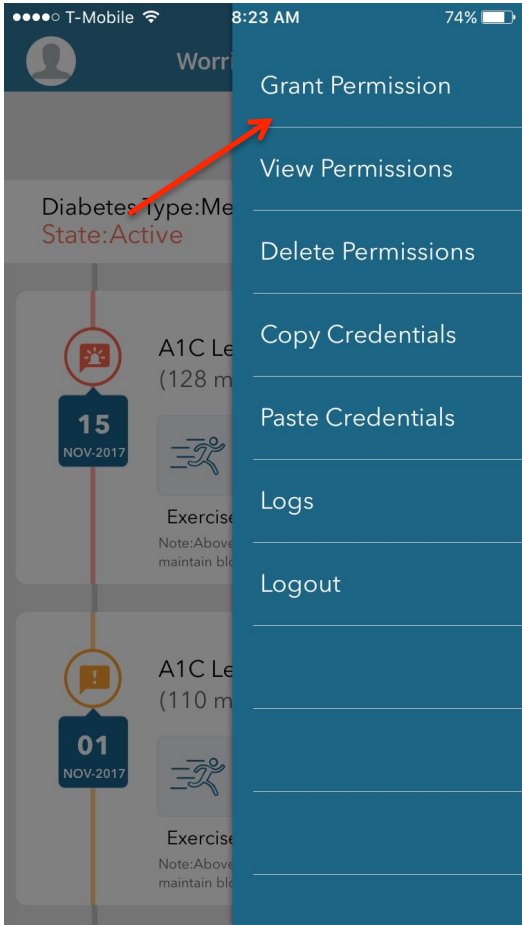
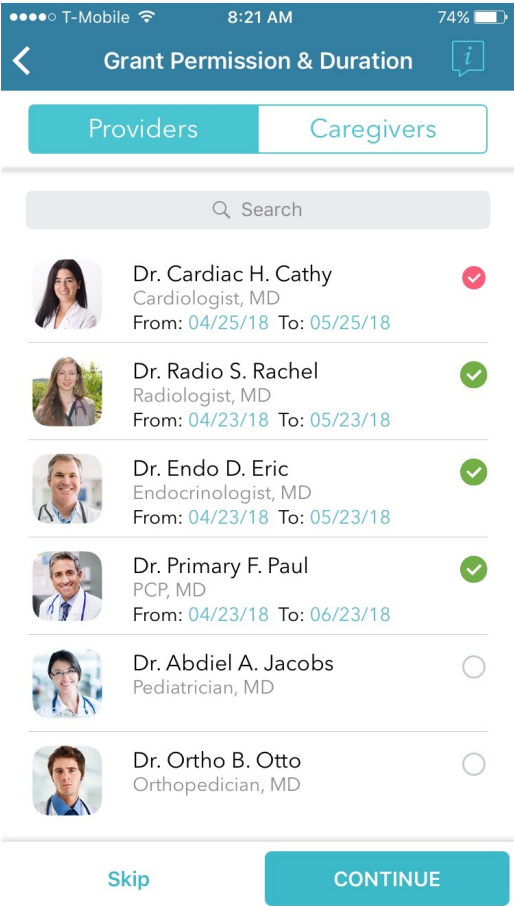
<p><u>Protocol Activities & Private Keys:</u> Private key for the mHealthDApp app is procured here.</p> <p>Following SMOAC protocol calls made:</p> <p>/util/getGloballyUniqueIdentifier</p> <p>/util/getTime and for a successful CSI registration the /csi/requestCsiRegistration</p>

User Action	Resulting Page	Functionality
		<p>User is now taken to the FBlocksCSA app so that the user may authorize and grant permission for such resources to be permitted for usage by the requesting mHealthDApp.</p> <p>The user can proceed further with the rest of the installation and configuration of the mHealthDApp only and only upon such permission being explicitly granted by the FBlocksCSA</p> <p><u>Dummy stubbed out stuff: Any additional biz logic for such an authorization will be custom code implementation as per customer requirements. (Implemented by FhirBlocks Services Company or partner)</u></p>

<p><u>Protocol Activities</u> : Following SMOAC protocol calls made by FBlocksCSA:</p> <p>permission/writePermission</p>
--

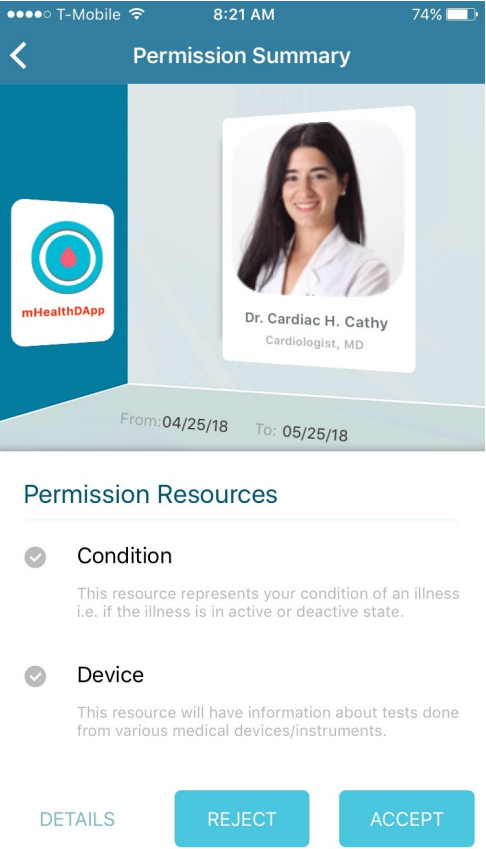
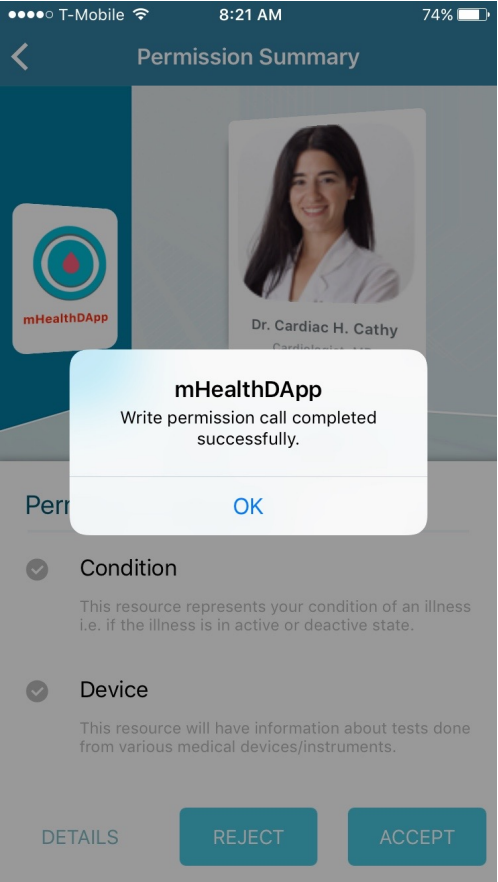
Navigation scheme for other functionalities of the App		Functionality
		<p>1. Profiles sliding pane is activated by tapping on the profile icon, which is found at the left corner of the navigation bar. Such profile sliding pane is shown in the 1st cell of this table.</p> <p>2. Other functions sliding pane is activated by tapping on the menu icon, which is found at the right corner of the navigation bar. The menu sliding pane is shown in the 2nd cell of this table.</p>

<p><u>Protocol Activities:</u> SMOAC protocol calls made</p> <p>NONE</p>
--

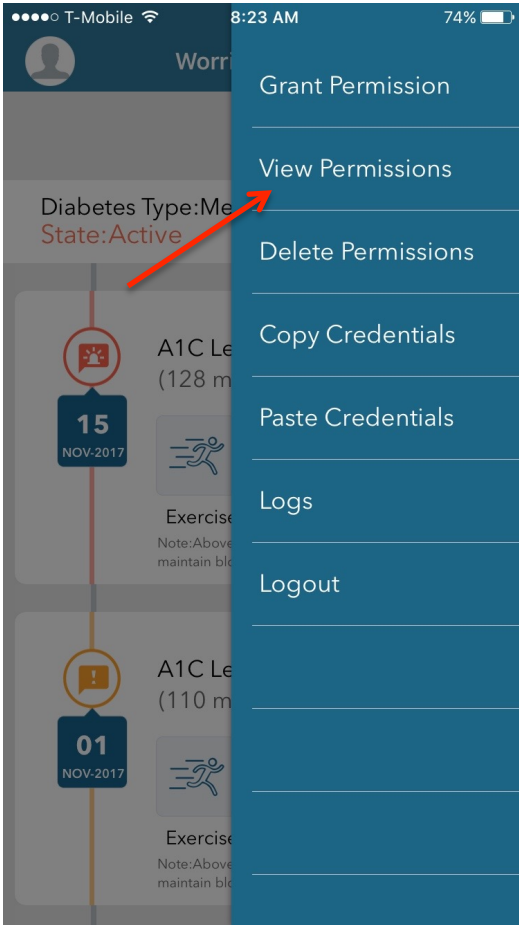
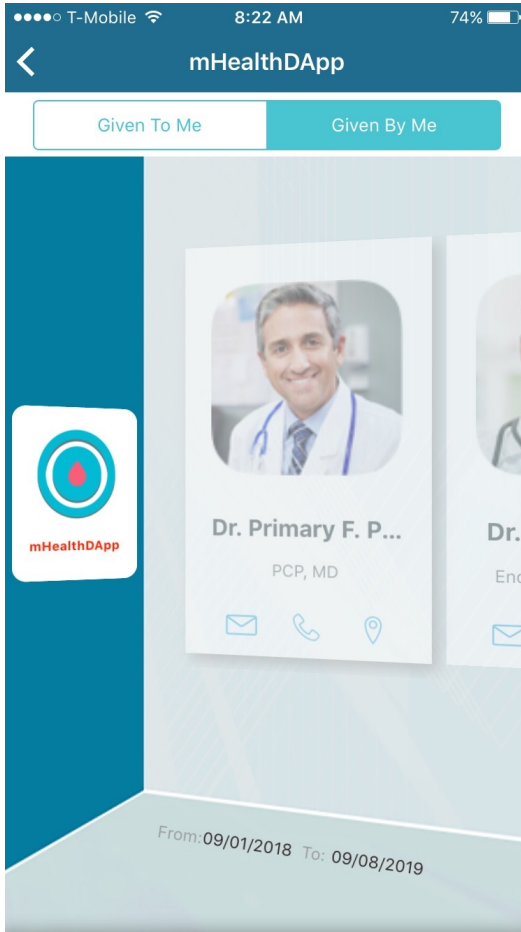
Grant Permission	Resulting Page	Functionality
		<p>User can grant a permission by selecting the Grant Permission item from the other functions slide menu.</p> <p>The list of people to whom the user can grant the permission is presented to the user.</p> <p>A color coded scheme of clear, red and green circles are used to represent the state of the permission. Clear for not granted, Red for about to be granted and Green fro granted.</p>

Protocol Activities: SMOAC protocol calls made

NONE

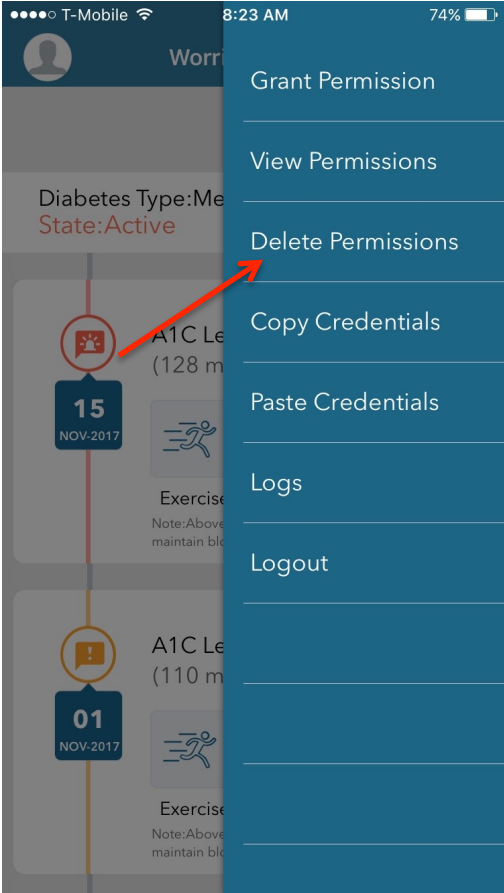
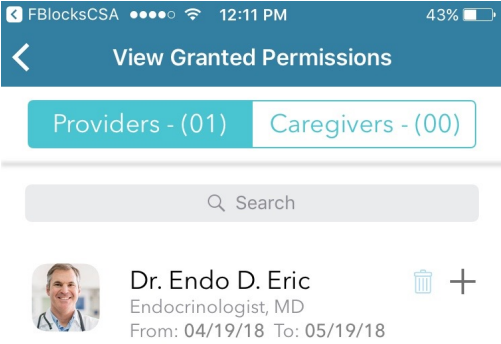
Grant Permission	Resulting Page	Functionality
		<p>Upon the user clicking on the accept button a permission is then granted to that corresponding person.</p> <p>And that person is added to the list of persons that such a permission has been granted.</p>

<p>Protocol Activities: SMOAC protocol calls made permission/writePermission</p>
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View Permissions	Resulting Page	Functionality
		<p>User can view all the permissions details by selecting the View Permissions item from the other functions slide menu.</p> <p>The permissions are presented in two categories. 1. Permissions granted by the user (Given By Me) and 2. Permission granted to the user (Given To Me).</p>

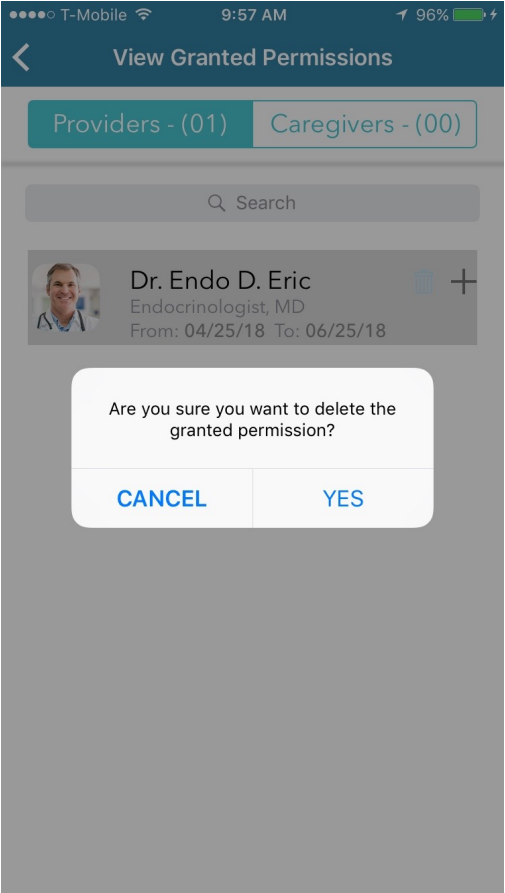
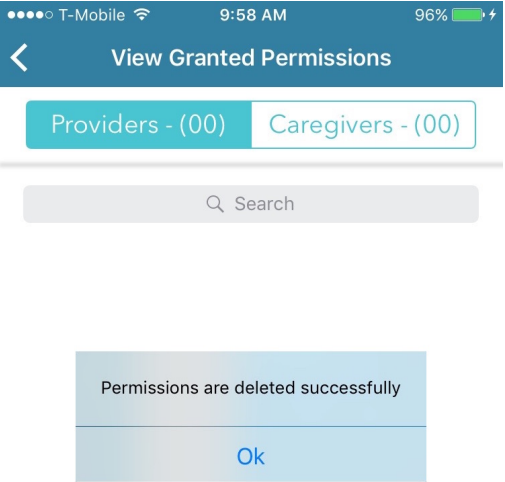
Protocol Activities: SMOAC protocol calls made

/permission/fetchPermissionsGivenToMe
/permission/fetchPermissionsGivenByMe

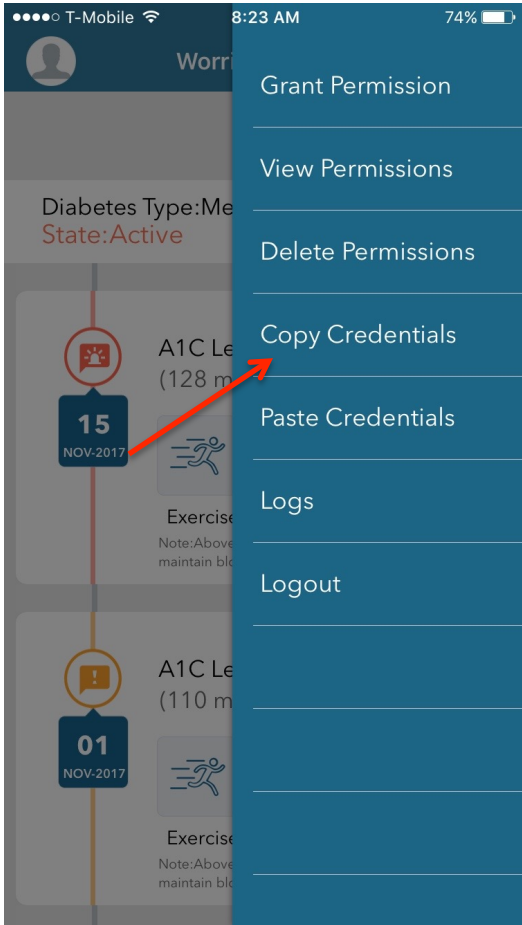
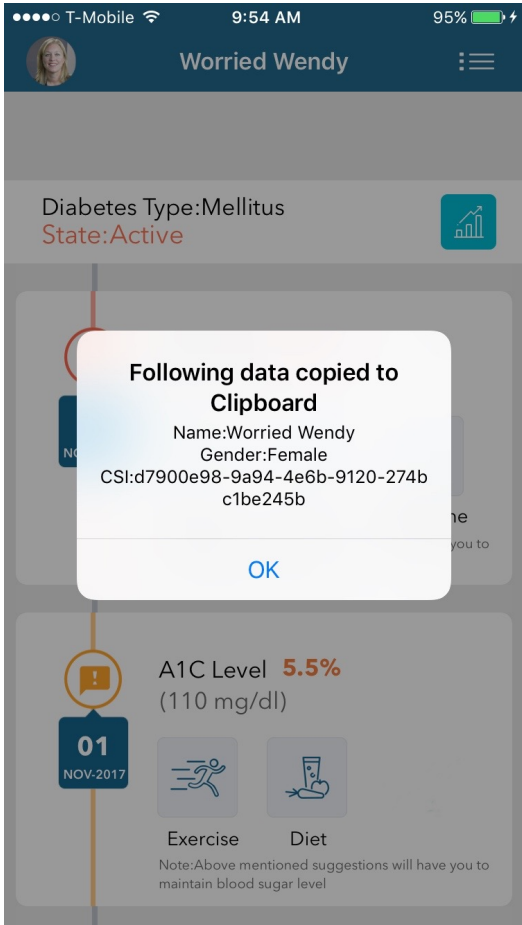
Delete Permission	Resulting Page	Functionality
 <p>A screenshot of a mobile application interface. A dark blue slide menu is open on the right side of the screen. The menu items are: Grant Permission, View Permissions, Delete Permissions (highlighted with a red arrow), Copy Credentials, Paste Credentials, Logs, and Logout. The background shows a patient's medical history with A1C levels and exercise logs.</p>	 <p>A screenshot of the 'View Granted Permissions' page. The page has a blue header with a back arrow and the title 'View Granted Permissions'. Below the header are two tabs: 'Providers - (01)' and 'Caregivers - (00)'. There is a search bar with a magnifying glass icon. Below the search bar is a list of providers. The first provider is Dr. Endo D. Eric, an Endocrinologist, MD, with a date range from 04/19/18 to 05/19/18. To the right of the provider's name is a trash can icon and a plus sign.</p>	<p>User can delete a granted permission by selecting the Delete Permissions item from the other functions slide menu.</p> <p>The granted permissions page is presented to the user. User can take the action to delete a granted permission by clicking on the Trash Can icon displayed next to the granted permission.</p>

Protocol Activities: SMOAC protocol calls made

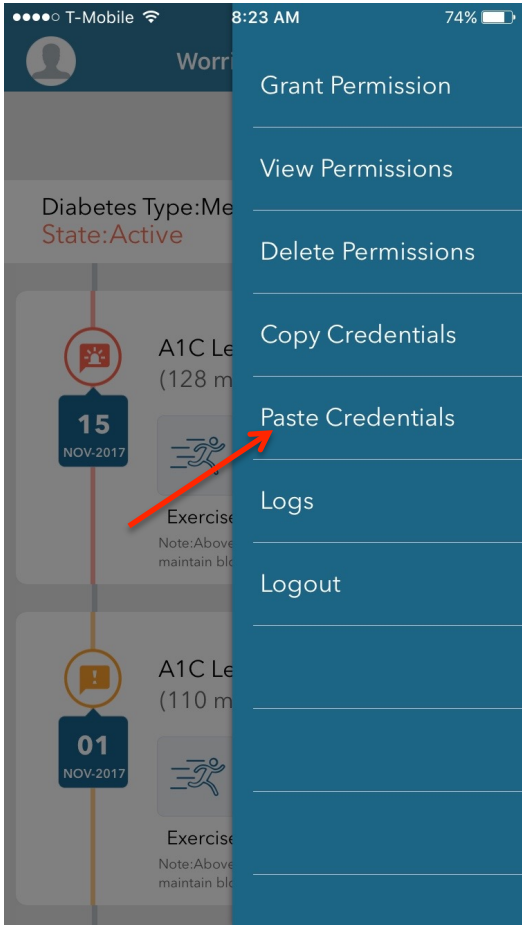
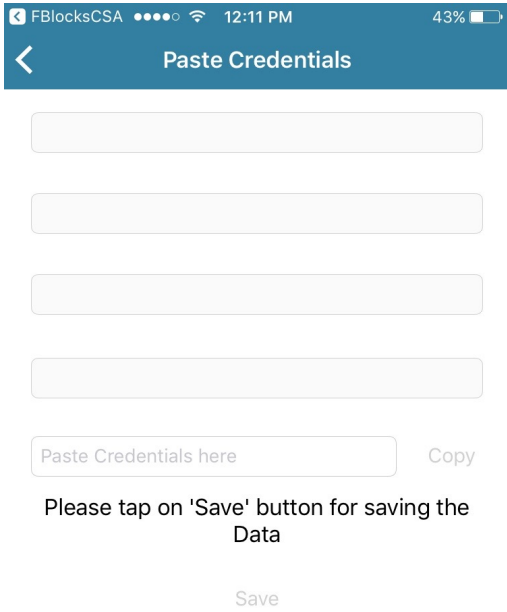
NONE

Delete Permission	Resulting Page	Functionality
		Upon confirmation of the delete from the user the granted permission is deleted.

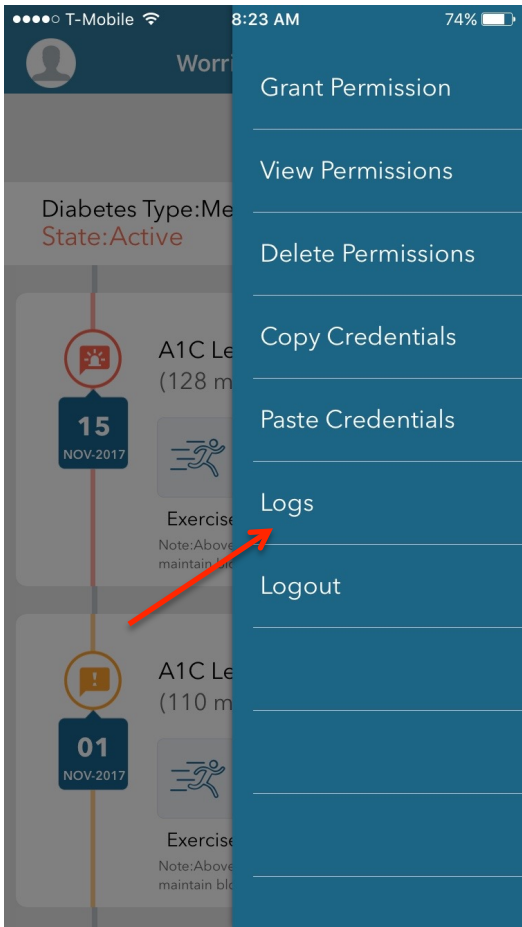

<p>Protocol Activities: SMOAC protocol calls made</p> <p>/permission/deletePermission</p>

Other temporary functionality of the App for the POC phase		Copy Credentials
		<p>User can copy the CSI of the FBlocksCSA into the clipboard of the device.</p> <p><u>Keep in mind that this is a temporary work around for users to discover each other, during the scope of the POC phase of this project.</u></p> <p>Copying the CSI into the clipboard aides the user to paste into others apps and transmit the CSI using other communication apps so that users can find each other.</p>
		

<p><u>Protocol Activities:</u> SMOAC protocol calls made</p> <p>NONE</p>
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Other temporary functionality of the App for the POC phase		Paste Credentials
		 <p>User can paste credentials from the clipboard into the screen shown in the 2nd cell of this table. This assists the user in storing the credentials of the discovered user into the App.</p> <p><u>Keep in mind that this is a temporary work around for users to discover each other, during the scope of the POC phase of this project.</u></p> <p>This would be the last step in the process of discovering users when exchanging the credentials via other communications apps and taking advantage of the clipboard on the device.</p>

<p><u>Protocol Activities:</u> SMOAC protocol calls made</p> <p>NONE</p>
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Other temporary functionality of the App for the POC phase	Logs
 <p>The screenshot shows the app's side menu with options: Grant Permission, View Permissions, Delete Permissions, Copy Credentials, Paste Credentials, Logs (highlighted with a red arrow), and Logout. The background shows a health dashboard with 'Diabetes Type: Me', 'State: Active', and 'A1C Le (128 m)'.</p>	<p>All SMOAC api calls made are logged into a log file presented with a default view controller. The details are logged in a REQUEST / RESPONSE format.</p> <p>Users can view these logs presented in a page view with back and next page navigation functionality.</p> <p><u>Keep in mind that this is a temporary function to assist us or our prospective clients with debugging during the scope of the POC phase of this project.</u></p>  <p>The screenshot shows the 'Logs' screen with a list of API calls. The first entry is a 'Request' to 'http://smoac.fhirblocks.io:8080/util/ping' with a 'Response' containing 'smoacVersion = "2.2.0"'. The second entry is a 'Request' to 'http://smoac.fhirblocks.io:8080/util/getGloballyUniqueIdentifier' with a 'Response' containing a 'guid'. The third entry is a 'Request' to 'http://smoac.fhirblocks.io:8080/util/getTime' with a 'Response' containing 'currentTime = "2018-04-19T16:04:20.321Z"'. The fourth entry is a 'Request' to 'http://smoac.fhirblocks.io:8080/csi/requestCsiRegistration' with a 'Response' containing registration details.</p>

<p><u>Protocol Activities:</u> SMOAC protocol calls made</p> <p>NONE</p>
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