

## MCC Support SDD Addendum

### Mobile Application Information

**MCC Support v1.0:** This mobile application will serve as an online resource for the maternity care coordinators to provide care and advice to pregnant Veterans. MCCs will have the ability to track patient information, access numerous phone call outlines and informational resources, and track their call queue through the application.

Product Version: 1.0

	Veteran	CareGiver	Provider	Public
Intended Audience for Mobile Application			X	

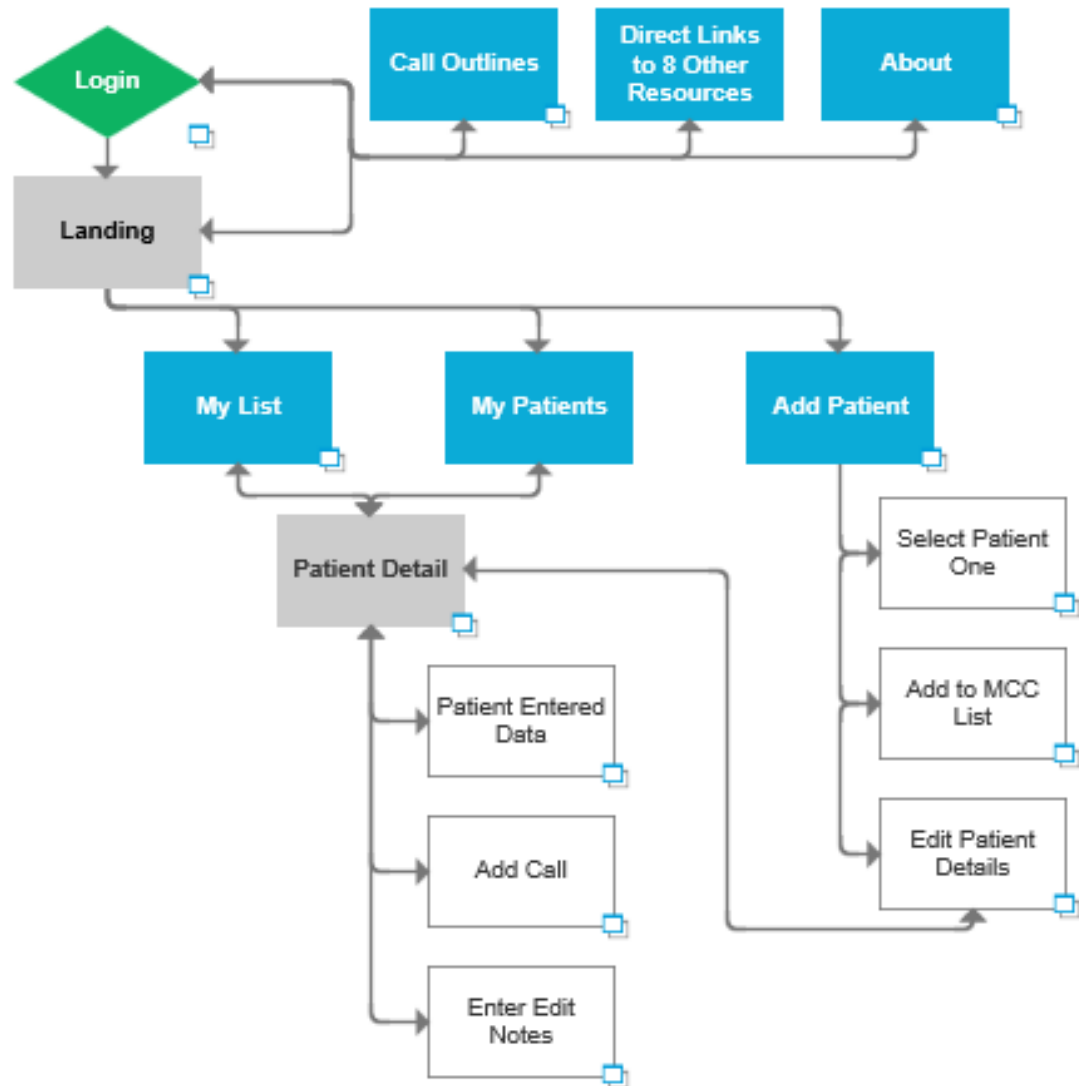
Question	Yes	No	If Yes, what information / data	If yes, then identify any consumer or source system(s) for the data
Does the user enter information or data into the mobile application?	X		<ul style="list-style-type: none"> <li>Expected Delivery Date</li> <li>Expected Delivery Date Set By</li> <li>Email</li> <li>End Notes</li> <li>Has Custom Calls</li> <li>Is Pregnant</li> <li>Last Menstrual Period</li> <li>Notes</li> <li>OB Contacts</li> <li>OB Provider</li> <li>OB Phone</li> <li>OB Phone Type</li> <li>Pregnancy Outcome</li> <li>Reminders Active</li> <li>Texting Enabled</li> <li>Address</li> <li>City</li> <li>Zip</li> </ul>	App's local database (MONGO)
Does Mobile Application store information or data entered by the User?	X		User Session token If they accepted the EULA agreement, a flag is set as true or false	Local storage of the users internet browser

Does Mobile Application transmit/push data entered to VA?		X		
Does Mobile Application pull data from a VA Database?	X		<ul style="list-style-type: none"> <li>• Facility Id</li> <li>• Date Of Birth</li> <li>• Display Name</li> <li>• First Name</li> <li>• Last Name</li> <li>• Location</li> <li>• SSN</li> </ul>	Patient Viewer
Does the Mobile Application store information or data pulled from a VA Database?	X		<ul style="list-style-type: none"> <li>• Facility Id</li> <li>• Display Name</li> <li>• First Name</li> <li>• Last Name</li> <li>• Location</li> </ul>	App's local database (MONGO)

**This application can be classified as one of the following:**

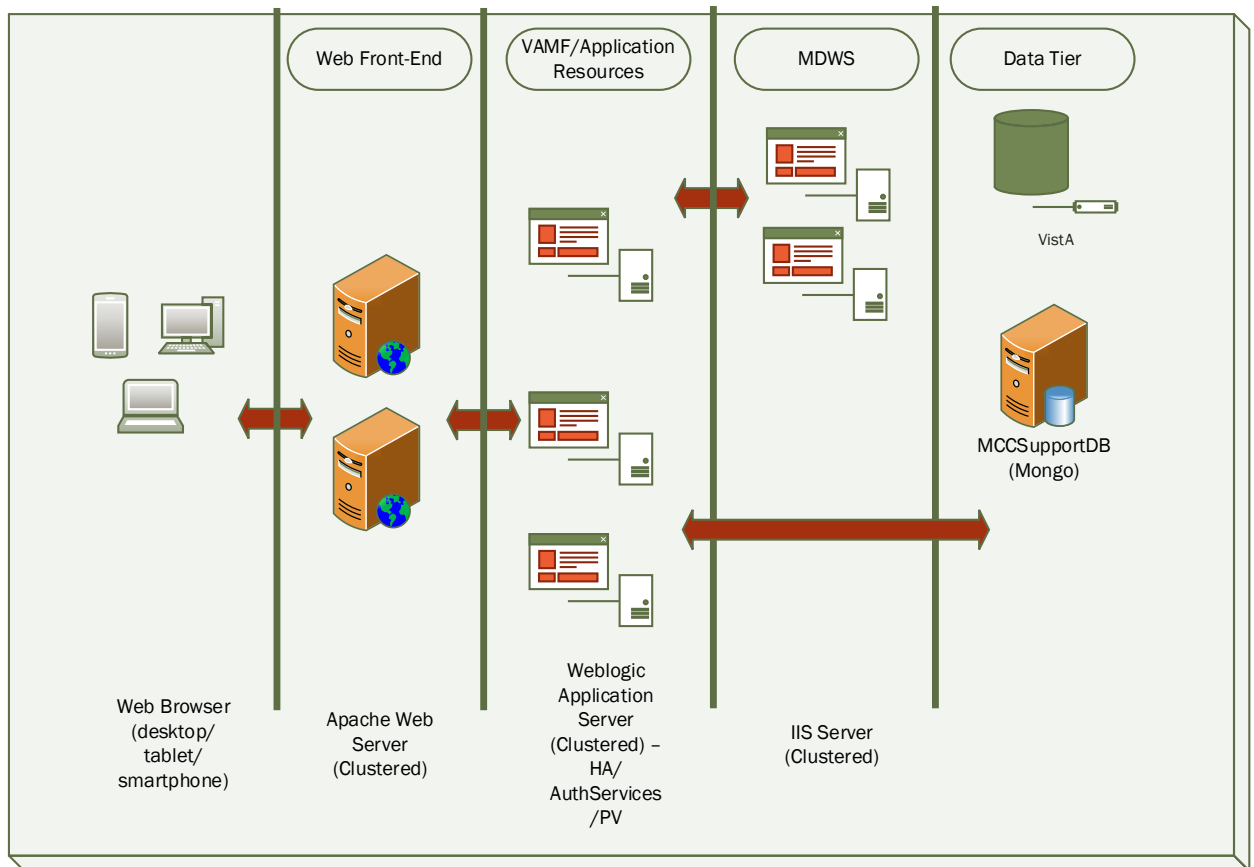
<b>Mobile Application Classification (Only One Box may be Checked)</b>	<b>Mark with X</b>
1 – Very Low: Mobile Application Does Not Use VA Resource	
2 – Low: Read only access to VA Resource(s)	
3 – Medium: Write access to VA Resource(s)	
4 – High: Read and/or Write access to VA Sensitive Resource(s)	X

**Application Design**



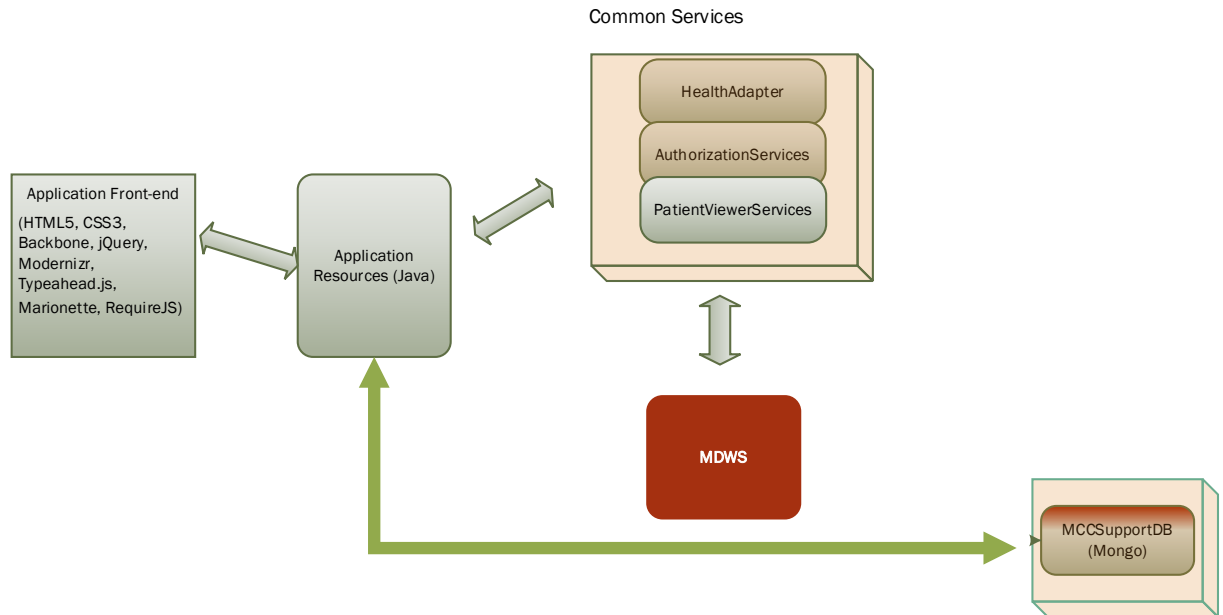
## Logical Architecture

### *Logical Architecture*



## Application Architecture

## Application Architecture



Link to the interactive wireframes to show intended front-end functionality:

<http://84cexd.axshare.com/#p=login>

Device's OS	Native	Hybrid	Web-Only	OS version supported	Targeted Devices (iPhone, iPad, Samsung...)	Estimated Storage Required for Device
iOS			X		iPad	
Windows 8			X		PC	

Technology, Libraries, Tools Used in the App	Version	On the TRM? (If not, provide a link to the waiver)
HTML5	5	Yes
CSS3	3	Request to be submitted.
Backbone	1.1	Yes

jQuery	2.1	Yes
Modernizr	2.7.1	Yes
Typeahead.js	0.10.2	Request to be submitted.
Marionette	1.8.0	Yes
RequireJS	2.1.10	Yes
Java	1.6	Upgrade planned.

### **Data Architecture**

**Overview:** The MCC Support application pulls some patient demographic information from Patient Viewer, but otherwise the user enters and retrieves information into the application-specific database. In

addition, this same database is used to retrieve self-entered patient information that is stored through the VA Moms application.

Ref #	NoSQL Collection	Description of data collection	Source of data	Structure
1	mccsupportmccpatientdb	The mccsupportmccpatientdb collection stores the patient details provided by the mcc and Vista	From Vista, and application	<pre> var mccsupportmccpatientdb = new db.mongoose.Schema({ id:String, mccId:String, assigningAuthorityId:String, patientId:String, displayName:String, nameFirst: string, location : string, address : string, city : string, state : string, zip : string, facilityId : string, phone : string, phoneType : string, textEnabled : string, email : string, edd : ISODate(1901-10- 21T13:28:06.419Z), eddSetBy : string, mcc : string, vaProvider :string, vaFacility : string, obProvider : string, isPregnant : boolean, remindersActive : boolean, lmp : date, notes : string, hasCustomCalls : null, actualEndDate : date, pregOutcome : string, endNotes : string, archiveFlag : boolean veteranId:String, nameFirst:String, nameLast:String, lmp:Date, edd:Date, noOfPregs:String, noOfDeliveries:String, wbp:String, currWgt:String, </pre>

				obProvider:String, obContacts :[{ contactType:String, contactInfo:String }]
2	mccsupportpatientcalldetails	The mccsupportpatientcalldetails collection stores the patient call details provided by the mcc and the application	From application	var mccsupportpatientcalldetails db = new db.mongoose.Schema({ { "callId" : string, "callType" : string, "callDate" : date, "callReason" : string, "callsCompleted" : string, "callsAttempted" : string, "notesEntered" : string, "patientId" : string }}]
3	mccsupportmccpatientdb	The mccsupportmccpatientdb collection stores the connection between the mcc and the list of patients	From application	var mccsupportmccpatientdb = new db.mongoose.Schema({ { patientId:String, mccId:String, facilityId : string }}]

[Provide some volume / sizing information for each collection / table](#)

Table or Collection	Number of Rows / Entries	Estimated Size per Entry	Total Disk (minus overhead for indexes, etc)
Mccsupportpatientdb	1000 users/1 per User	2048 bytes	2MB
mccsupportmccpatientdb	1000 users/1 per User	512 bytes	2MB
mccsupportpatientcalldetailsdb	1000 users/10 per User	1024 bytes	2MB

### Laws / regulations that direct the implementation of the app?

This application complies with VA and 508 Accessibility Standards. There are no laws nor regulations that direct the implementation of this application at the time.



## Expected concurrent and maximum size of the user base?

Maximum up to maternity care coordinator per facility.

## Interface Design

### List Existing VAMF (formerly Health Adapter) Interfaces Used (List)

This section means VAMF services already deployed in production for this app.

Interface Name (incl version number)	Data Used by Mobile App	Source of Data	Data Retrieved - provide specific data elements used by this app
Patient Viewer	Patient ID/ Name/ SSN/ Date Of Birth/ Age	VistA	Patient ID, Name, SSN, DOB, Age
Health Adapter	Patient Detail/ Patient List/ Next Call List/ Maintenance	mccsupportpatientdb, mccsupportmccpatientdb	Patient Detail information, Patient List information, Call Queue information, and Maintenance information

### New/Updated Health Adapter Interfaces Added (List)

Example, you are reliant on a VA system to implement something for you.

Project Dependency	Point of Contact Information	Describe Dependency
AuthorizationServices		

## Traceability (Requirements)

Below is all of the user stories, acceptance criteria and test IDs exported from MAE JIRA. The user stories below can be cross-walked with the concept paper to trace requirements.

Key	Feature	User Story	Design Component
MCC-21	Home Screen	User Acceptance Criteria:	Application

		<ul style="list-style-type: none"> <li>- User will see name of app and introduction text about the app (see mock-up)</li> <li>- User will see top header with left panel navigation slide out button</li> <li>- User will be able to see a login button</li> <li>- User will be able to see list of information content in right side:</li> </ul> <ul style="list-style-type: none"> <li>-- Psychosocial Risk Assessment (psychological risk assessment.doc)</li> <li>-- Prenatal Care Timeline (timeline page in app)</li> <li>-- MCC Handbook 1330.03 (confirm: <a href="http://www.va.gov/vhapublications/ViewPublication.asp?pub_ID=2803">http://www.va.gov/vhapublications/ViewPublication.asp?pub_ID=2803</a>)</li> <li>-- VA/DoD Guidelines (confirm: <a href="http://www.healthquality.va.gov/pregnancy.asp">http://www.healthquality.va.gov/pregnancy.asp</a>)</li> <li>-- Resources (within app resource page)</li> <li>-- About this App</li> <li>-- Preventative Health Visit</li> <li>-- Post-Partum Follow-Up Visit</li> <li>-- MCC Patient Call Outlines</li> <li>-- Patient Education</li> </ul> <ul style="list-style-type: none"> <li>- Prior to login the user can see the status of "Not Logged In"</li> <li>- After login, the user can see status of being logged in bottom right footer</li> </ul>	
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		(format as "Logged in as <user first name> <user last name>" - User can see Name and Version of app in left lower footer (format version as: v x.x.x)	
MCC-23	About Information	User Acceptance Criteria - The user can open the left navigation panel by tapping the nav menu button - The user can navigate to the about section using an About button - About information is available prior to logon - The about section will show * App version (based upon design decision) formatted as v x.x.x * Brief information about app (Content TBD with development) * Bulleting information about the app (Content TBD with development) * A link to a more detailed document about the app that is maintained and can be updated periodically. (Content TBD with development, link label "Additional Information" is not shown in attached mockup) - User can close about section	Application
MCC-24	Call Outlines	User Acceptance Criteria	Application

		<ul style="list-style-type: none"> <li>- Call outline information is available prior to logon.</li> <li>- The user can navigate to the Call outline section from the left navigation as well as the home page and patient timeline.</li> <li>- User can see a list of MCC Call outlines</li> <li>- Tapping any call outline will open the outline for viewing</li> <li>- User can close the outline and return to the list of call outlines or chose to navigate to another item via the navigation panel</li> </ul>	
MCC-25	Login	<p>User Acceptance Criteria:</p> <ul style="list-style-type: none"> <li>- User can log into the app using their VistA credentials</li> <li>* BR: After logging in, user will see his/her name and any patient in context (if one was in context) in the context bar at the bottom of the app</li> </ul> <p>Format as: Logged in as &lt;user first name&gt; &lt;user last name&gt;</p> <ul style="list-style-type: none"> <li>- If user is logged into the LaunchPad or other approved mobile platform app with their VistA credentials, the user will not have to re-enter their UN/PW to login</li> <li>* User can logout to</li> </ul>	MobileHealthPlatformWeb/oauthlogin

		<p>end their authentication session; choosing logout will cause the user to be logged out of all Launchpad apps</p> <p>* User can return to the LaunchPad, if one is available</p>	
MCC-26	Reminders	<p>User Acceptance Criteria:</p> <ul style="list-style-type: none"> <li>- After logging in, user will see message about number of MCC call reminders they have for the next 7 days</li> <li>- User has the ability to navigate to see their Call Queue</li> </ul>	mcc-support-resources/rest/PatientResource /patient-list
MCC-27	Patient Search	<p>User Acceptance Criteria:</p> <ul style="list-style-type: none"> <li>- User will see a patient search field</li> <li>- Search will only allow female patients to be added to the MCC List</li> <li>- User can search using the standard search applet input parameters: <ul style="list-style-type: none"> <li>* Last name</li> <li>* First name</li> <li>* SSN</li> <li>* Last initial last 4</li> </ul> </li> <li>- Search results are shown include the following data fields, if available: <ul style="list-style-type: none"> <li>* First Name</li> <li>* Last Name</li> <li>* Date of birth</li> <li>* Age</li> <li>* Social security number</li> <li>* Icon indicating patients already</li> </ul> </li> </ul>	mcc-support-resources/rest/PatientResource/patient-list

		<p>included in the tracking list</p> <ul style="list-style-type: none"> <li>- User can select a veteran from the list and choose to add the name to their tracking list</li> </ul>	
MCC-31	View Veteran Details	<p>User Acceptance Criteria:</p> <ul style="list-style-type: none"> <li>- User can tap a Veteran name on the list to open their Maternity Tracking information</li> <li>- User can see information on Veteran and pregnancy status <ul style="list-style-type: none"> <li>* Last name, first name</li> <li>* Contact information (phone number), contact type (home, work, cell), and "text friendly" indicator</li> <li>* DoB (calculated age) gender (M/F)</li> <li>* Weeks gestation (by EDD)</li> <li>* MCC Coordinator (text)</li> <li>* VA Primary Care Provider (text) and VA Primary Care Facility</li> <li>* OB provider (text)</li> <li>* OB Contact information (text)</li> </ul> </li> <li>- User can see in box for comment about the Veteran which is just viewable within the app <ul style="list-style-type: none"> <li>* Display the comment that has been saved.</li> </ul> </li> </ul> <p>BR: Text only available within app BR: Previous entries</p>	mcc-support-resources/rest/PatientResource/patient-detail

		<p>are not seen</p> <ul style="list-style-type: none"> <li>- User can tap a button which will take them to the edit patient detail page.</li> </ul>	
MCC-32	Edit Veterans MCC Profile	<p>User Acceptance Criteria:</p> <ul style="list-style-type: none"> <li>- User can tap a button from the MCC list to edit the Patient Profile</li> <li>- After tapping to add to the MCC list user will see a dialogue showing: <ul style="list-style-type: none"> <li>* Veterans last name, first name, e-mail address, preferred phone number, phone number type, text friendly flag, and address</li> <li>* Pregnant status (Yes/No) – default value is yes</li> <li>* Last Menstrual period entry box using a date picker (MM/DD/YYYY)</li> </ul> </li> </ul> <p><input type="checkbox"/>BR: If pregnancy is Yes, user can enter LMP to get calculated EDD or must enter EDD by ultrasound</p> <p><input type="checkbox"/>BR: if pregnancy is no, the LMP, EDD, and generate reminder buttons are grayed out/inactive.</p> <p><input type="checkbox"/>BR: After entered LMP date, the Expected Due date will populate based upon calculation and the LMP button radial button will be selected</p> <p>* Expected Due Date</p>	mcc-support-resources/rest/PatientResource/patient-detail

		<p>entry box</p> <p>BR: If user selects Ultrasound radio button, the LMP button will be unchecked and user can enter EDD by date. Entered date by ultrasound does not impact LMP date.</p> <p>* Generate Call reminder box (yes/no)</p> <p><input type="checkbox"/> BR: Default is yes</p> <p>* VA Primary Care Provider Name (text 50 characters) and VA Primary Care Facility</p> <p>* OB Provider Name (text 50 character limit)</p> <p>* OB Provider contact information and type (up to 5)</p> <p>* Pregnancy outcome selection</p> <p>Outcome options include:</p> <p>-- Live Birth - Vaginal Delivery</p> <p>-- Live Birth - C-section</p> <p>-- Miscarriage/Still Birth (spontaneous)</p> <p>-- Termination (non-spontaneous)</p> <p>-- Other (comment)</p> <p>* Actual End Date (from date picker)</p> <p>* Notes regarding end of pregnancy</p> <p>- User will see button to SAVE Patient</p> <p>Detail information</p> <p><input type="checkbox"/> BR: Saving closes detail screen and adds patient to MCC list</p> <p><input type="checkbox"/> BR: Adding someone to the list will save info such</p>	
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		<p>that the search display with list will show (Last Name, First name, SSN, DoB, calculated age, gender, persons ICN, and Electronic Data Interchange Personal Identifier (EDIPI) if available)</p> <p><input type="checkbox"/> BR: App saves the facility ID into the MCC list of Veteran data</p>	
MCC-33	Add Note	<p>User Acceptance Criteria:</p> <ul style="list-style-type: none"> <li>- User can see a comment box about the Veteran which is just viewable within the app</li> <li>- User can add or edit note information</li> <li>- User can save information</li> </ul> <p>BR: Text only available within app BR. 500 Character limit BR: Previous entries are not seen</p>	mcc-support-resources/rest/PatientResource/patient-detail
MCC-36	Session End Warning	<p>User Acceptance Criteria :</p> <ul style="list-style-type: none"> <li>- The user will be presented with an alert within the app when the authentication session reaches 12 minutes into a session</li> <li>- A user can elect to: <ul style="list-style-type: none"> <li>* Continue which reset the 15 minute inactivity timer</li> <li>* Logout which ends the authentication session</li> </ul> </li> </ul>	Application
MCC-37	Session Ended	Acceptance Criteria:	Application

		<p>Once a user has had 15 minutes of inactivity and their session has timed out, the user will be:</p> <ul style="list-style-type: none"> <li>- Logged off</li> <li>- Presented with a notification that they have been logged off</li> <li>- Given the option to login (selecting the option will take the user to the DS Logon screen)</li> </ul> <p>* For web based applications using Launchpad, the Launchpad option will return the user to Launchpad</p>	
MCC-38	Connection Error	<p>User Acceptance Criteria :</p> <ul style="list-style-type: none"> <li>- After taking an action in the app that requires connection to the HA/VAMF, the user will receive either of the following message types based upon the situation</li> </ul> <p>* A message indicating the HA/VAMF server is unavailable OR</p> <ul style="list-style-type: none"> <li>- The user can dismiss the message</li> <li>- Current data on the screen will display until the user closes the app or browser</li> </ul> <p>DevNote: This pattern and service to use from the VAMF has been established</p>	Application
MCC-104	Launch App	<p>Acceptance Criteria:</p> <ul style="list-style-type: none"> <li>- launchpad</li> <li>- can only access app after accepting EULA</li> </ul>	Application

		<ul style="list-style-type: none"> <li>- uses VA approved icon</li> <li>- declining EULA results in return to launchpad</li> </ul>	
MCC-105	Default Maternity Patients List	Acceptance criteria <ul style="list-style-type: none"> <li>- default sort is patient name (lastname, firstname)</li> <li>- includes vet name</li> <li>- includes next call date</li> <li>- includes estimated due date</li> <li>- includes custom calls</li> </ul>	mcc-support-resources/rest/PatientResource/patient-list
MCC-108	Delete a Patient	Acceptance Criteria <ul style="list-style-type: none"> <li>- User will see Remove from MCC Tracking List Button on the Edit Patient page.</li> <li>BR: If user taps button, users sees text message, and must confirm deleted</li> <li>- Text: Caution You are about to remove this patient from the MCC tracking list. Do you want to continue? Yes / No</li> <li>* Yes will delete the person from the list</li> <li>* No will return to the patient detail entry/edit screen</li> </ul>	mcc-support-resources/rest/PatientResource/patient-detail
MCC-109	Create Call Queue	Acceptance criteria <ul style="list-style-type: none"> <li>- reminders can be turned off</li> <li>- based on estimated due date</li> <li>- does not call again if due date moves but call has been made</li> </ul>	mcc-support-resources/rest/PatientResource/patient-detail
MCC-260	Patient Timeline	Acceptance Criteria: <ol style="list-style-type: none"> <li>1) Timeline will include clickable</li> </ol>	mcc-support-resources/rest/PatientResource/patient-detail

		<p>blocks with each call</p> <p>2) Timeline is scalable to allow a user to see all calls (even if it exceeds the 7 that fit to a screen)</p> <p>3) If the first contact call is not completed, it will be the default highlighted call. Once completed, the default highlighted call should be the next call in the queue (upon page load)</p>	
MCC-261	Assigning Patients to MCCs	<p>Acceptance Criteria:</p> <p>1) The Maternity Care Coordinator field (Edit Details page) should default to the user logged in and adding the patient to the list.</p> <ul style="list-style-type: none"> <li>- This field is not editable.</li> <li>- Users can only add patients to their own list.</li> </ul> <p>2) These MCC values should reside in the Maternity List filter so that anyone at a site can view/filter patients based on the assigned MCC.</p> <p>3) The VA Facility name on the Edit Details page should default to the facility for the user logged in and is not editable.</p>	mcc-support-resources/rest/PatientResource/patient-detail
MCC-551	MCC Support Content & Information	<p>As a MCC staff I want to be have access to the necessary content from any screen So that I can use them if needed</p>	mcc-support-resources/rest/PatientResource/patient-detail

		<p>User Acceptance Criteria</p> <ul style="list-style-type: none"> <li>- Preventative Health Visit, Post-Partum Follow-Up Visit, Patient Education, Psychosocial Risk Assessment, Prenatal Care Timeline, MCC Handbook 1330.03 (<a href="http://www.va.gov/vhapublications/ViewPublication.asp?pub_ID=2803">http://www.va.gov/vhapublications/ViewPublication.asp?pub_ID=2803</a>), VA/DoD Guidelines (<a href="http://www.healthquality.va.gov/pregnancy.asp">http://www.healthquality.va.gov/pregnancy.asp</a>), and Resources information are available prior to logon.</li> <li>- The user can navigate to the Preventative Health Visit, Post-Partum Follow-Up Visit, Patient Education, Psychosocial Risk Assessment, Prenatal Care Timeline, MCC Handbook 1330.03, VA/DoD Guidelines, and Resources content (contained within the attached PDF or at the designated URL) from the home page.</li> <li>- Notification that accessing the .pdf content requires Adobe Reader</li> <li>- User can close the information and return to the Home Page or chose to navigate to another item via the navigation panel</li> </ul>	
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**Developer & PM Contact Information**

Developer Name/Point of	VA E-Mail Address	Phone Number