

VA Moms SDD Addendum

Mobile Application Information

The VA Moms mobile app is a tool and information source for women Veterans who are pregnant or breastfeeding. Veterans can access pregnancy and childbirth resources, and use tools for tracking pregnancy care and well-being. VA Moms App in conjunction with MCC Support App will enhance care coordination and sharing of electronic information between the Veteran receiving VA maternity benefits, the Maternity Care Coordinator (MCC), key VA providers, and the Veteran's non-VA maternity care provider, as well as enhance the quality and continuity of care during pregnancy by providing tools for the MCC and VA providers, educate Veterans about pregnancy and provide tools so that the Veteran can manage her care during pregnancy.

Link to interactive wireframes that show intended frontend functionality:



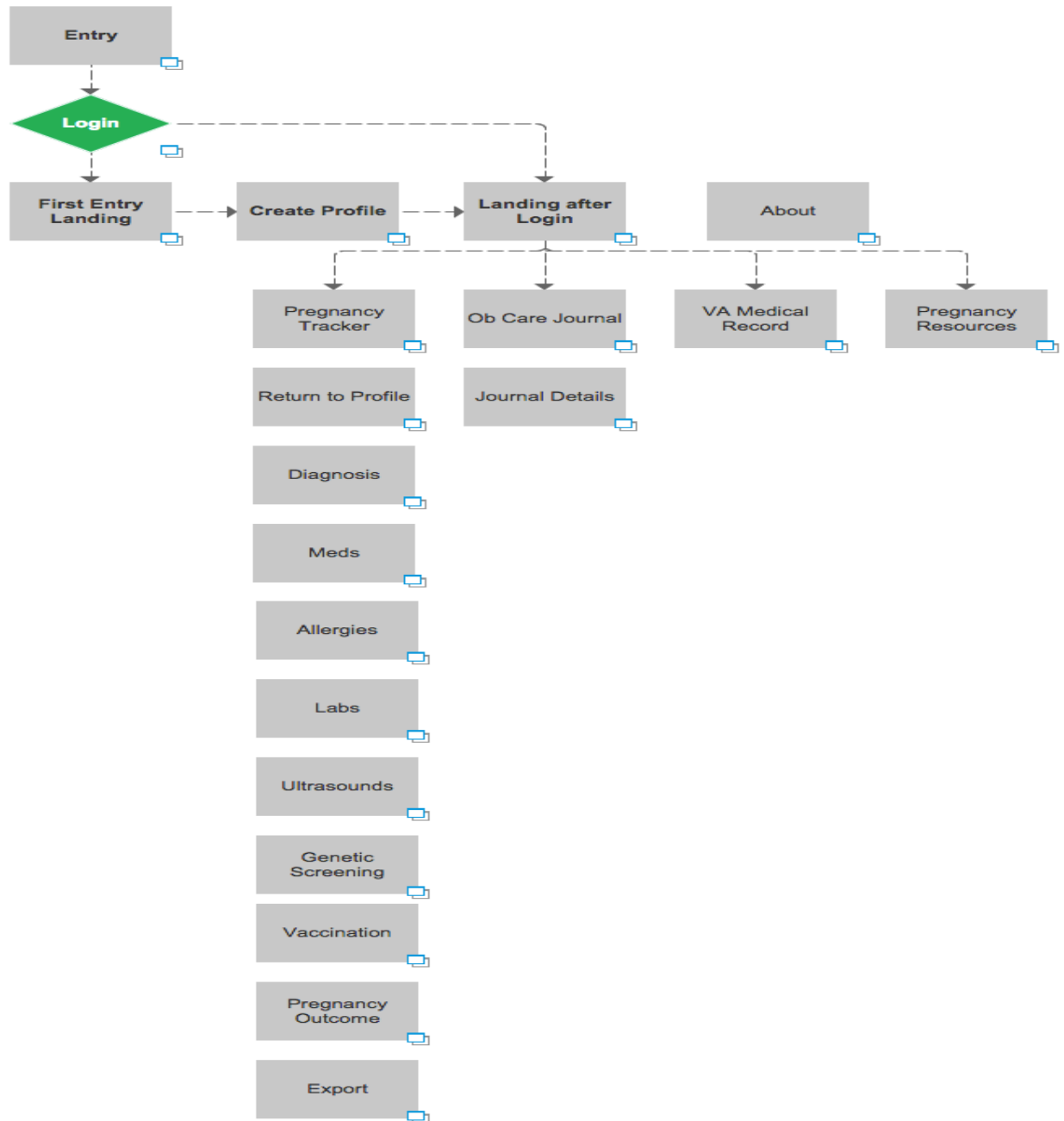
Link to delivered application in LongView environment:



Note:  for test login credentials.

All of the data contained in this application is entered by the user. Data/information entered is personal health and pregnancy history, and other pieces of personal medical information. The user can enter personal notes and contact information, as well as information surrounding allergies, medications, lab results, ultrasound results, genetic screening test results, vaccinations, and her pregnancy outcome(s).

All data entered into the VA Moms application is stored in the MCCSupportDB and is accessible through the MCC Support application to be reviewed by her MCC. After reviewing and accepting the VA standard EULA, the Veteran (user) is prompted with a disclaimer that the information she enters can be seen by her MCC. If she accepts the disclaimer, she will be prompted to login using valid VA credentials. If she chooses to decline, the user is taken back to the veteran-facing LaunchPad.



VAMoms v1.0:

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

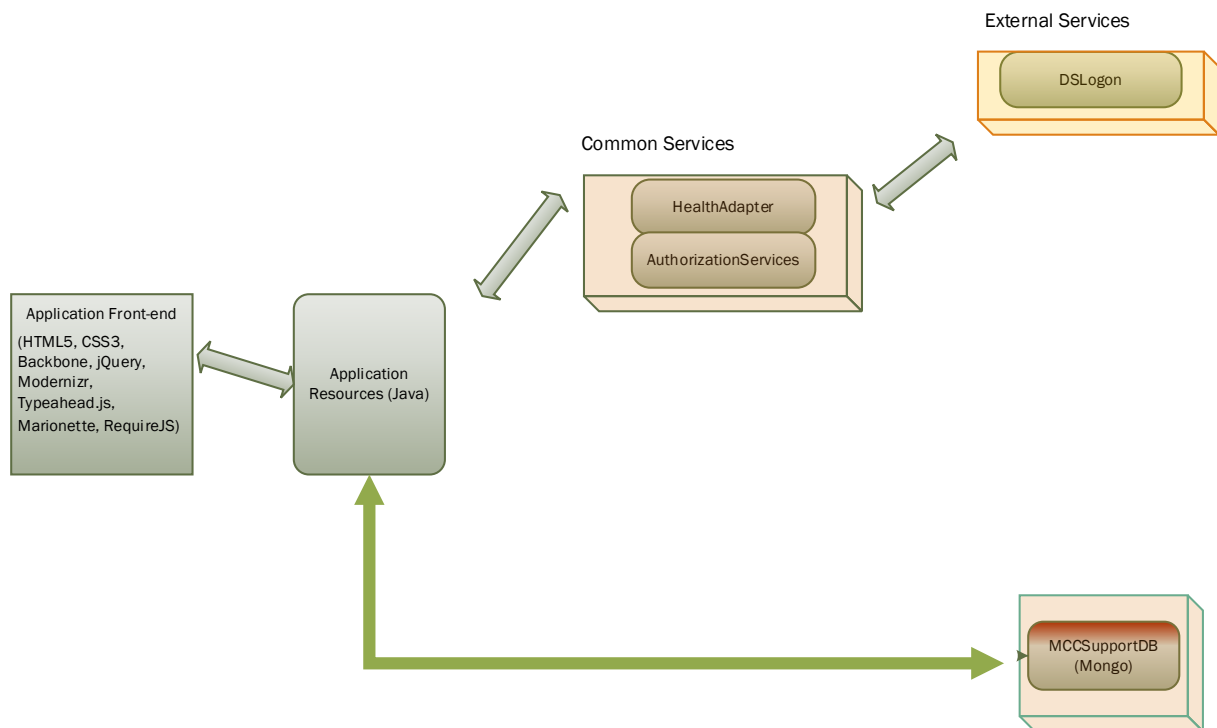
				the data
Does the user enter information or data into the mobile application?	X		User can enter data into the following sections within the App: Create Profile Diagnosis Medications Allergies Labs Ultrasounds Genetic Screening Vaccinations Pregnancy Outcome	MCCSupportDB
Does Mobile Application store 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		User can enter data into the following sections within the App... Create Profile Diagnosis Medications Allergies Labs Ultrasounds Genetic Screening Vaccinations Pregnancy Outcome	MCCSupportDB
Does Mobile Application pull data from a VA Database?	X		Create Profile Diagnosis Medications Allergies Labs Ultrasounds Genetic Screening Vaccinations Pregnancy Outcome	MCCSupportDB
Does the Mobile Application store information or data pulled from a VA Database?	X		Create Profile Diagnosis Medications Allergies Labs Ultrasounds Genetic Screening Vaccinations Pregnancy Outcome	MCCSupportDB

This application can be classified as one of the following:

Mobile Application Classification (Only One Box may be Checked)	Mark with X
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

Application Architecture



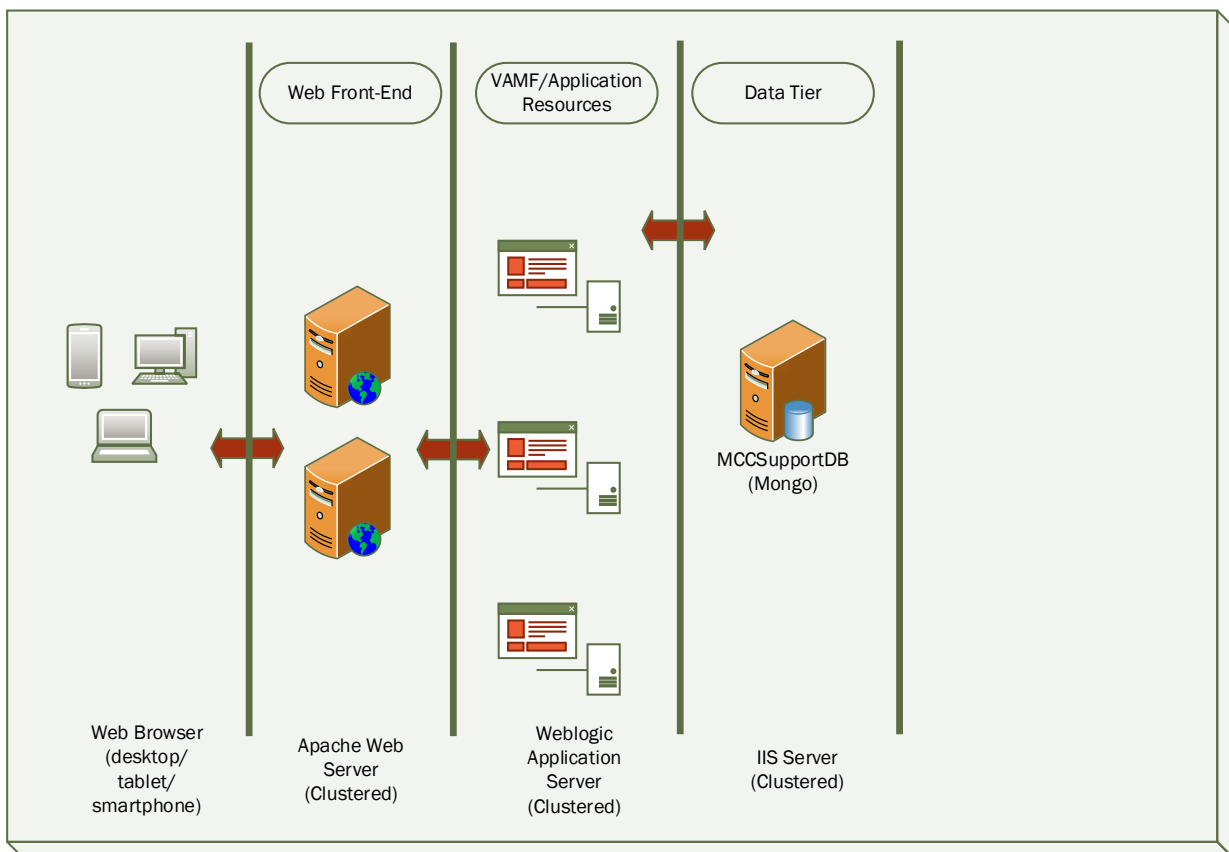
Device's OS	Native	Hybrid	Web-Only	OS version supported	Targeted Devices (iPhone, iPad, Samsung...)	Estimated Storage Required for Device
iOS			X		iPad	
Windows 8			X		PC	

Technology, Libraries, Tools Used in the App	Version	On the TRM? (If not, provide a link to the waiver)
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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

Logical Architecture



Overview: All data entered into the VA Moms application is stored in MCCSupportDB. MCCSupportDB is the name in which both MCC and VA Moms collections are stored.

Note : veteranId in VAMoms collection is same as /equal to patientID in MCC

Ref #	NoSQL Collection	Description of data collection	Source of data	Structure
1	vamomallergies	The vamomallergies collection stores the allergy details entered by the user.	User	var vamomallergies = new db.mongoose.Schema({

				id:String, veteranId:String, allergy:String, firstOccured:Date, otherReactions :String, severity:String, description:String, diagnosed:boolean, provider:String, facility:String, comments:String, deleteAllergy:boolean }}
2	vamomdiagnosis	The vamomdiagnosis collection stores all Health Condition details entered by the user.	User	var vamomdiagnosis = new db.mongoose.Schema({ id:String, veteranId:String, diagnosisName:String, comments:String, onsetDate:Date, status:boolean, deleteDiagnosis:boolean comments:String, deleteAllergy:boolean })
3	vamomgeneticscreening	The vamomgeneticscreening collection stores all genetic screening values entered by user.	User	var vamomgeneticscreening = new db.mongoose.Schema({ id:String, veteranId:String, testDate:Date, testResult:String, testNotes:String, cystic:boolean, sickleCell:boolean, amnio: boolean, downSyndrome:boolean, taySach:boolean, other:boolean, counseling:boolean, quad:boolean, canavan:boolean, cvs:boolean, thalassemia:boolean })
4	vamomjournal	The vamomjournal collection stores all journal values entered by user.	User	var vamomjournal = new db.mongoose.Schema({ id:String,

				veteranId:String, appointmentDate:Date, entryTitle:String, providerName:String, visitReason:String, visitNotes:String, bloodPressureSys:String, bloodPressureDia:String currWgt:String, fetalHeartBeatPresent:boolean, fundalHeight:String, pregRelatedProblems:String }]
5	vamomlabs	The vamomlabs collection stores all lab details entered by user.	User	var vamomlabs = new db.mongoose.Schema({ id:String, veteranId:String, bloodType:String, rhType:String, papSmear:String, papSmearComment:String, rubella:String, varicella:String, antibodyScreen:String, hepatitis:String, gonorrhea:String, chlamydia:String, urineCulture:String, rpr:String, glucoseTolerance:String, glucoseLevel:String, groupBStrep:String, labTests:[{ testName:String, testDate:Date, results:String }], gttStatus:String }]
6	vamommedications	The vamommedications collection stores all medication values entered by user.	User	var vamommedications = new db.mongoose.Schema({ id:String, veteranId:String, medicationName:String, medicationType:String currentlyTaking:boolean, strength:String, frequencyTaken:String, instructions:String, reasonForTaking:String, }

				refillsRemaining:String, rxNumber:String, pharmacyName:String, pharmacyPhoneNumber:String, lastRefillDate:Date, startDate:Date, stopDate:Date, sideEffectsComment:string, comments:String deleteMedication: boolean, prescriber:String }]
7	vamomoutcome	The vamomoutcome collection stores the all pregnancy outcome values entered by user.	User	var vamomoutcome = new db.mongoose.Schema({ id:String, veteranId:String, outcomeList:[{ Outcome:String, endDate:Date, sex:boolean, weight:String, length:String, firstName:String, lastName:String, comments:String, otherOutcome:String }] }]
8	vamomprofile	The vamomprofile collection stores the profile information for the logged in user.	User	var vamomprofile = new db.mongoose.Schema({ id:String, veteranId:String, nameFirst:String, nameLast:String, lmp:Date, edd:Date, noOfPregs:String, noOfDeliveries:String, wbp:String, currWgt:String, obProvider:String, obContacts :[{ contactType:String, contactInfo:String }], mcc:String, mccContact:String, labDueItems:String }]
9	vamomultrasounds	The vamomultrasounds collection stores all values entered from each	User	var vamomultrasounds = new db.mongoose.Schema({

		ultrasound.		id:String, veteranId:String, ultrasoundDate:Date, fetuses :[{ Comments:String ultrasoundEDD:Date, efwDetails :[{ weight:String, metric:boolean }] egaDetails :[{ weeks:String, days:String }] }] }]
10	vamomvaccinations	The vamomvaccinations collection stores the vaccination details provided by veteran mom	From application	var vamomvaccinations = new db.mongoose.Schema({ id:String, veteranId:String, fluShotLastAdmin:Date, fluShotNextDue:Date, tdapLastAdmin:Date, tdapNextDue:Date })]

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)
vamomallergies	1000 users	2048 bytes	2MB
vamomdiagnosis	1000 users	2048 bytes	2MB
vamomgeneticscreening	1000 users	2048 bytes	2MB
vamomjournal	1000 users	2048 bytes	2MB
vamomlabs	1000 users/1 per User	1024 bytes	2MB
vamommedications	1000 users	2048 bytes	2MB
vamomoutcome	1000 users/1 per User	1024 bytes	2MB
vamomprofile	1000 users/1 per User	1024 bytes	2MB
vamomultrasounds	1000 users	2048 bytes	2MB
vamomvaccinations	1000 users/1 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?

The expected concurrent user base is approximately 500 and the expected maximum size of the user base is 3,500.

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
/AuthorizationServices/rest/token (version :Auth Services 4.1)	Authentication Response	DSLogon	First name, last name, EDIPI
/ssoeproxy/login /MobileHealthPlatformWeb/oauthlogin (version : Health Adapter 3.3)	MhpUser	IAM/SSOE and User	MhpUser : firstName, lastName, displayName, rightOfAccessAccepted,

New/Updated Health Adapter Interfaces Added (List)

Interface Name (incl version #)	Data Used by Mobile App	Source of Data	Included in Program-Level SDD?
No new interfaces added.			

Project Dependency	Point of Contact Information	Describe Dependency
No known dependencies.		

Only Application Accessible Resources (List)

Note : veteranId in VAMoms collection is same as /equal to patientID in MCC

Interface Name	Data Used by Mobile App	Included in Program-Level SDD?
va-mom-resources/rest/VeteranResource/ vamom-profile	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-profile? veteranId	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-journal-detail	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-journal-detail?veteranId =	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-diagnosis-detail	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-diagnosis-detail?veteranId =	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-medications-detail	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-medications-detail?veteranId	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-allergies-detail	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-allergies-detail?veteranId	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-labs-detail	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-labs-detail?veteranId	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-ultrasounds-detail	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-ultrasounds-detail?veteranId	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-genetic-screening	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-genetic-screening?veteranId	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-vaccinations-detail	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-vaccinations-detail?veteranId	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-pregnancy-outcome	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-pregnancy-outcome?veteranId	VAMoms and MCC	No
va-mom-resources/rest/VeteranResource/ vamom-export-details?veteranId =	VAMoms	No
va-mom-resources/rest/VeteranResource/ vamom-export-report?veteranId =	VAMoms	No

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.

Note : veteranId in VAMoms collection is same as /equal to patientID in MCC

Epic	Feature	User Story	Design Component
VA Moms	DSLogin – User must enter valid VA credentials.	MTAV-250, MTAV-283	Uses authentication services via the SSOE Proxy
VA Moms	Accepting EULA – User must accept to access application or decline to return to LaunchPad.	MTAV-270	Static page, flag is stored locally on device or browser
VA Moms	Accepting Disclaimer - User must accept to access application or decline to return to LaunchPad.	MTAV-1334	Static page, flag is stored locally on device or browser
VA Moms	Creating Profile – User can create, edit and save a profile.	MTAV-246	va-mom-resources/rest/VeteranResource/ vamom-profile (push to mccsupportdb) va-mom-resources/rest/VeteranResource/ vamom-profile? veteranId = (pull from mccsupportdb)
VA Moms	Create/Edit OB Care Journal – User can create, edit and save an OB Care Journal.	MTAV-592	va-mom-resources/rest/VeteranResource/ vamom-journal-detail (push to mccsupportdb) va-mom-resources/rest/VeteranResource/ vamom-journal-detail?veteranId = (pull from mccsupportdb)
VA Moms	Add/Edit/Delete a Health Condition – User can add, update, save or delete self-entered health conditions (diagnoses).	MTAV-244	va-mom-resources/rest/VeteranResource/ vamom-diagnosis-detail (push to mccsupportdb) va-mom-resources/rest/VeteranResource/ vamom-diagnosis-detail?veteranId = (pull from mccsupportdb)
VA Moms	Add/Edit/Delete a Medication – User can add, update, save or delete self-entered medications.	MTAV-240	va-mom-resources/rest/VeteranResource/ vamom-medications-detail (push to mccsupportdb) va-mom-resources/rest/VeteranResource/ vamom-medications-detail?veteranId =(pull from mccsupportdb)
VA Moms	Add/Edit/Delete an Allergy – User can add, update, save, or delete self-entered allergies.	MTAV-236	va-mom-resources/rest/VeteranResource/ vamom-allergies-detail (push to mccsupportdb) va-mom-resources/rest/VeteranResource/ vamom-

			allergies-detail?veteranId =(pull from mccsupportdb)
VA Moms	Add/Edit Labs – User can update, edit and save her labs.	MTAV-235	va-mom-resources/rest/VeteranResource/ vamom-labs-detail (push to mccsupportdb) va-mom-resources/rest/VeteranResource/ vamom-labs-detail?veteranId =(pull from mccsupportdb)
VA Moms	Add/Edit/Delete an Ultrasound – User can add, edit, save, and delete Ultrasound results.	MTAV-231	va-mom-resources/rest/VeteranResource/ vamom-ultrasounds-detail (push to mccsupportdb) va-mom-resources/rest/VeteranResource/ vamom-ultrasounds-detail?veteranId =(pull from mccsupportdb)
VA Moms	Add/Edit/Delete a Genetic Screening – User can add, edit, save and delete a genetic screening test.	MTAV-233	va-mom-resources/rest/VeteranResource/ vamom-genetic-screening (push to mccsupportdb) va-mom-resources/rest/VeteranResource/ vamom-genetic-screening?veteranId =(pull from mccsupportdb)
VA Moms	Add/Edit a Vaccination – User can enter, edit and save a vaccination.	MTAV-230, MTAV-1036	va-mom-resources/rest/VeteranResource/ vamom-vaccinations-detail (push to mccsupportdb) va-mom-resources/rest/VeteranResource/ vamom-vaccinations-detail?veteranId =(pull from mccsupportdb)
VA Moms	Add/Edit a Pregnancy Outcome – User can add, edit and save a Pregnancy Outcome, or add and edit additional outcomes.	MTAV-229	va-mom-resources/rest/VeteranResource/ vamom-pregnancy-outcome (push to mccsupportdb) va-mom-resources/rest/VeteranResource/ vamom-pregnancy-outcome?veteranId =(pull from mccsupportdb)
VA Moms	Mobile Blue Button Access – User can access the Mobile Blue Button (MBB) application from within the application.	MTAV-247	My VA Medical Record page contains a link that when selected navigates the user to MBB. MBB has to be installed on server that VA Moms is installed on.
VA Moms	Accessing Pregnancy Resources	MTAV-226, MTAV-228	User can navigate to the Pregnancy Resource page that contains static content and external links that navigate the user to the corresponding external URL.
VA Moms	Accessing About page	MTAV-248	User can navigate to an About page that contains static content and a link to the user guide.
VA Moms	Exporting Self-Entered Data	MTAV-1080	va-mom-resources/rest/VeteranResource/ vamom-export-details?veteranId = va-mom-resources/rest/VeteranResource/ vamom-export-report?veteranId =

Developer & PM Contact Information

Developer Name/Point of Contact (POC)	VA E-Mail Address	Phone Number

Lauren Brown		
Developer Organization/Company	Contract Start Date	Contract End Date
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