

Care4Caregivers v 1.0.0 SDD

Mobile Application System Design Document (SDD) Addendum

The System Design Document (SDD) is a dual-use document that provides the conceptual design as well as the as-built design. This document will be updated as the product is built, to reflect the as-built product. Per the Project Management Accountability System (PMAS) Guide, the SDD with conceptual design is required prior to the Milestone 1 Review. The as-built for each delivery must be incorporated prior to the Milestone 2 Review.

****Replace the blue instructional text in the various fields and tables below****

Mobile Application Information

Project Increment / Release Designation: **Care4Caregivers**

Product Version: **1.0.0**

	Veteran	Care Giver	Provider	Public
Intended Audience for Mobile Application	X	X		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		Zarit Caregiver Assessment	Assessment Services v1.0.0
Does Mobile Application store information or data entered by the User? If yes, where is it stored?	X		Zarit Caregiver Assessment	Assessment Services v1.0.0
Does Mobile Application transmit/push data entered outside of the VAMF to VA?		X		
Does Mobile Application pull data from a VA Database (external to VAMF)?	X		User Information like Name and identifiers (EDIP)	IAM/DSLogon
Does the Mobile Application store in the VAMF or on the device data pulled from a VA Database?	X		User information is stored	Auth Services 4.0.x and Metrics 1.0.x

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) (No PII / PHI)	
3 – Medium: Write access to VA Resource(s)	
4 – High: Read and/or Write access of sensitive data to VA Resource(s) (Includes PII/PHI/other sensitive)	X

Application Design

Care4Caregivers app helps Veterans or Caregivers by creating awareness of their personal stress level, and providing support. It is intended to assess caregiver strain and to provide caregivers with some tools for self-management, including coping skills, psychological education, and connections to resources.

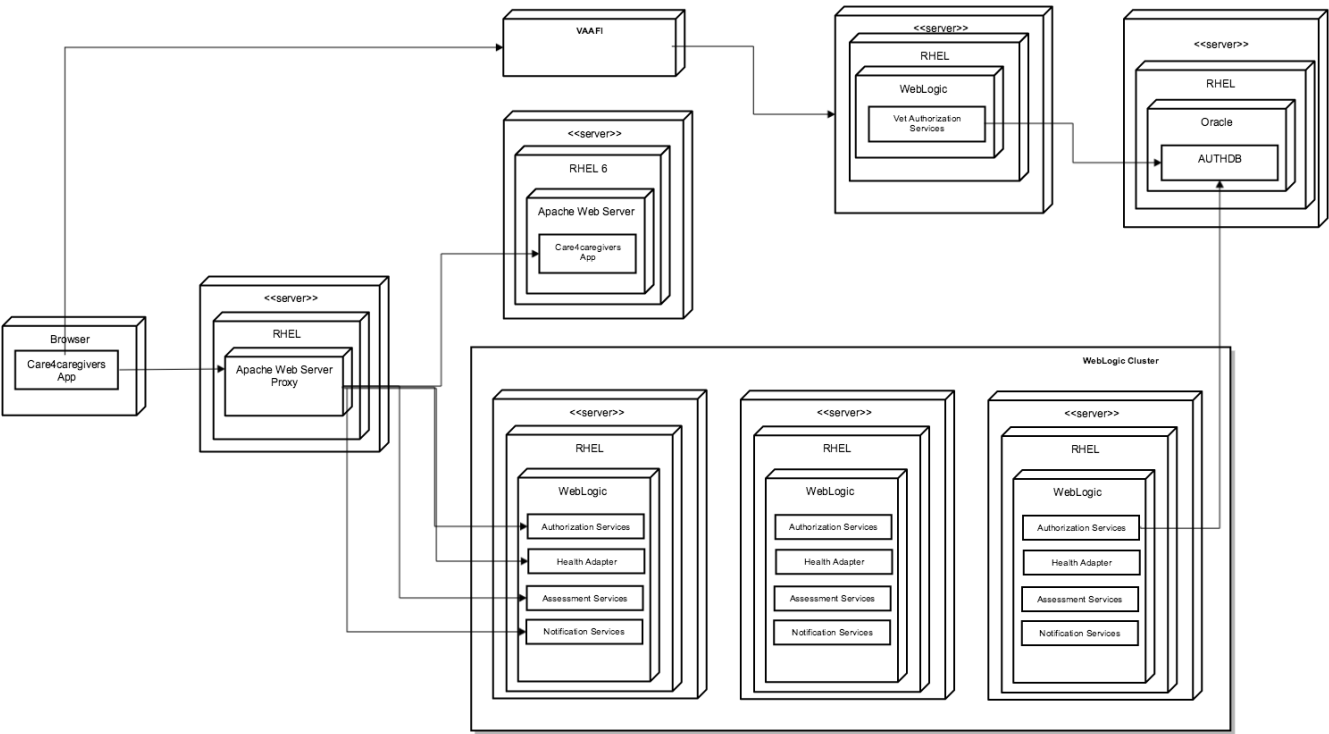
Care4Caregivers app is developed using AngularJS and Bootstrap framework. Care4Caregivers app is build using the following components:

- 1. container – Container bootstraps the application by creating the layout with header, menus, content and footer sections. It also creates menu items based on the module configuration.
- 2. core – core handles the common features required across the app including authentication, connection error handling, EULA, ROA and Resource Directory.
- 3. modules – Modules are the core features of the application. This app has Home, Learn, Assess, Manage, Support and Favorites modules. Except Assess, all the modules can work with out user authentication.
- 4. ui-components – Modals, Forms, accordians, etc are available in this section.
- 5. utilities – Utilities represent browser sniffer.

Dependencies:

- 1. Authorization Services 4.0.x
- 2. Health Adapter 3.2.x
- 3. Assessment Services 1.0.0
- 4. Notification Services 2.1.0

Application Deployment Diagram



Device's OS	Native	Hybrid	Web-Only	OS version supported	Targeted devices (iPhone, iPad, Samsung model...)	Estimated Storage Required for Device
iOS			X	8.0.x	iPhone	n/a
Chrome			X	35+	Tablets	n/a

Windows 8			X	IE11	Desktop	n/a
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Libraries

Technologies, Libraries, and Tools Used in the App	Version	On the TRM? (If not, provide a link to the waiver)	Used for
HTML5	5	Yes	
JavaScript	5.x	Yes	
Bootstrap	2.1.x	Yes	UI Formatting and Styling
jQuery	1.11.x	Yes	HTML traversal, HTML manipulation, event handling, animation, and Ajax
AngularJS	1.2.x	Yes	Foundational HTML enhancement framework that supports ajax interactivity with VAMF Services
Snap.js	1.9.x	Submitted; Under Review	Mobile-friendly Slide-out Menus
Highstock	2.0.x	Yes	Interactive charts and graphing.
Lo-dash	2.4.x	Yes	JSON data formatting and manipulation
Modernizr	2.6.x	Yes	Browser feature detection
Moment.js	2.8.x	TRM Request Submitted	Datetime Formatting & Timezone Conversion
Require.js	2.1.x	Yes	Library Compression & Concatenation

Data Architecture

Not applicable as it is handled by Assessment Services.

Expected concurrent and maximum size of the user base?

User Category	Total Number of Users	Concurrent Users
Veterans	20,000 - 50,000	3,500

Interface Design

Existing VAMF Interfaces Used

(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	Endpoint	Notes
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Auth Services v.4.0.x	Authentication Response for User Access Token validation	VistA	User Name and User Identifier	https://eauth.va.gov/ MobileHealthPlatfor m/authorize /AuthorizationServic es/oauth/token /AuthorizationServic es/rest/resourceLast AccessedTime	Authorize and Access token calls are initiated through Health Adapter
Health Adapter v3.2.x	Resource Directory	Health Adapter	Health Adapter Atom Links	/MobileHealthPlatfor mWeb/rest/public/re source-directory/json	
Caregiver Assessment Assessment Services 1.0.0	Zarit Caregiver Assessment Questionnaire	Assessment Service	assessment.js	/AssessmentService s/rest/v1/public/asse ssments/id/{id}	see Assessment Services SDD
Caregiver Assessment Eligibility Assessment Services 1.0.0	Zarit Caregiver Assessment eligibility	Assessment Service	assesment-eligibility. js	/AssessmentServic es/rest/v1/patient/{as signing-authority}/{us er-id}/assessments/i d/strain/eligibility	
Caregiver Assessment Draft Assessment Services 1.0.0	Zarit Caregiver Assessment saving drafts	Assessment Service	assessment-draft.js	/AssessmentServic es/rest/v1/patient/{as signing-authority}/{us er-id}/assessments/i d/strain/draft	
Caregiver Assessment Results Assessment Services 1.0.0	Zarit Caregiver Assessment results	Assessment Service	assessment-results.j s	/AssessmentServic es/rest/v1/patient/{as signing-authority}/{us er-id}/assessments/i d/strain/results	
Caregiver Assessment Graph Data Assessment Services 1.0.0	Zarit Caregiver Assessment graph data	Assessment Service	assessment-graphd ata.js	/AssessmentServic es/rest/v1/patient/{as signing-authority}/{us er-id}/assessments/i d/strain/results/grap hdata	

<p>Notification Email and Timezone Preferences</p> <p>Notification Services 2.1.0</p>	<p>User Email and Timezone preferences</p>	<p>Notification Services</p>	<pre>{ "_id": "5491cb60e4b0f6d5f48dc4a5", "patientIdentifier": { "uniqueId": "D123401", "assigningAuthority": "EDIPI" }, "timeZone": "(-05:00) America/New_York (Eastern)", "emailAddress": "mhp@agilex.com", "createDate": "12/17/2014 13:28:48", "lastModifiedDate": "01/13/2015 13:55:29" } { "errorType": "204", "errorMessage": "Notification Preference does not exist for " }</pre>	<p>/NotificationServices/rest/v1/patient/{assigning-authority}/{user-id}/preferences</p>	<p>see Notification Services SDD</p>
<p>Notification Opt-in preferences</p> <p>Notification Services 2.1.0</p>	<p>User Opt-in preferences</p>	<p>Notification Services</p>	<pre>{ "object-type": "PatientNotificationPreference", "_id": "5491cb60e4b0f6d5f48dc4a4", "patientIdentifier": { "uniqueId": "D123401", "assigningAuthority": "EDIPI" }, "optInSelected": true, "createDate": "12/17/2014 13:28:48", "optInLastModifiedDate": "01/13/2015 13:55:29", "firstName": "zztest", "lastName": "patient01", "dateOfBirth": "May 05, 1900" }</pre>	<p>/NotificationServices/rest/v1/patient/EDIPI/D123401/patient-notification-preference</p>	

Reminders Notification Services 2.1.0	Reminders	Notification Services	<pre> { "title": "Care for caregivers reminder", "frequency" : "Once", "alert": [" On the date"], "enabledFla g": true, "source": " Care for Care Givers", "eventDate" : "02/03/2015", "times": [" 09:00 AM"], "notificati onTypes": ["Ema il"], "auxData": [{ "key": "source", "value" : "CARE_FOR_CAR EGIVER", }, { "key": "emailSubject", "value ": "Care for Caregivers assessment is due now" }, { "key" : "emailSignatu re", "value ": "Care for Caregivers" }, { "key" : "emailBody", "value ": "Care for Caregivers assessment is due now. " }, { "key ": "emailUpdate Message", "value ": "Please log into Care4Caregivers app to take assessment." }], "notificati onStatus": "On" } </pre>	/NotificationServices /rest/v1/patient/{assi gning-authority}/{use r-id}/reminders
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Dependencies/SLA

For example, you are reliant on a VA system to implement something for you, including supporting testing:

Project Dependency	Point of Contact Information	Describe Dependency
N/A		

Traceability

EPIC	FEATURE	USER STORY	DESIGN COMPONENT
See Care4Caregivers RTM			

Developer & PM Contact Information

Developer Name/Point of Contact (POC)	VA E-Mail Address	Phone Number
██████████	██████████████████	██████████
Developer Organization/Company	Contract Start Date	Contract End Date
██████████	██████████	██████████
Web and Mobile Solutions PM or POC	VA E-Mail Address	Phone Number
██████████	██████████████████	██████████
VA Product Development PM or POC	VA E-Mail Address	Phone Number
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