

Scheduling Manager Web 2.2.x - SDD

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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.

Mobile Application Information

Project Increment / Release Designation: [SM Application](#)

Product Version: [2.2.x](#)

	Veteran	Care Giver	Provider	Public
Intended Audience for Mobile Application			X (Scheduling Clerks)	

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		Veteran appointment info, provider messages to veterans	Oracle database, MongoDB database
Does Mobile Application store information or data entered by the User? If yes, where is it stored?	X		Veteran appointment info, provider messages to veterans	Oracle database, MongoDB database
Does Mobile Application transmit/push data entered outside of the VAMF to VA?	X		Veteran appointment info	VistA
Does Mobile Application pull data from a VA Database (external to VAMF)?	X		Veteran appointment info	VistA
Does the Mobile Application store in the VAMF or on the device data pulled from a VA Database?		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

Scheduling Manager (SM) - Telehealth Application

The **SM Telehealth** application provides scheduling clerks the following capabilities:

1. Process veteran appointment requests submitted via the Veteran Appointment Request (VAR) application.
2. Process Express Care requests submitted via the VAR application.
3. Book or cancel VistA appointments for veterans.
4. Schedule adhoc video visit appointments for veterans.

Application Design

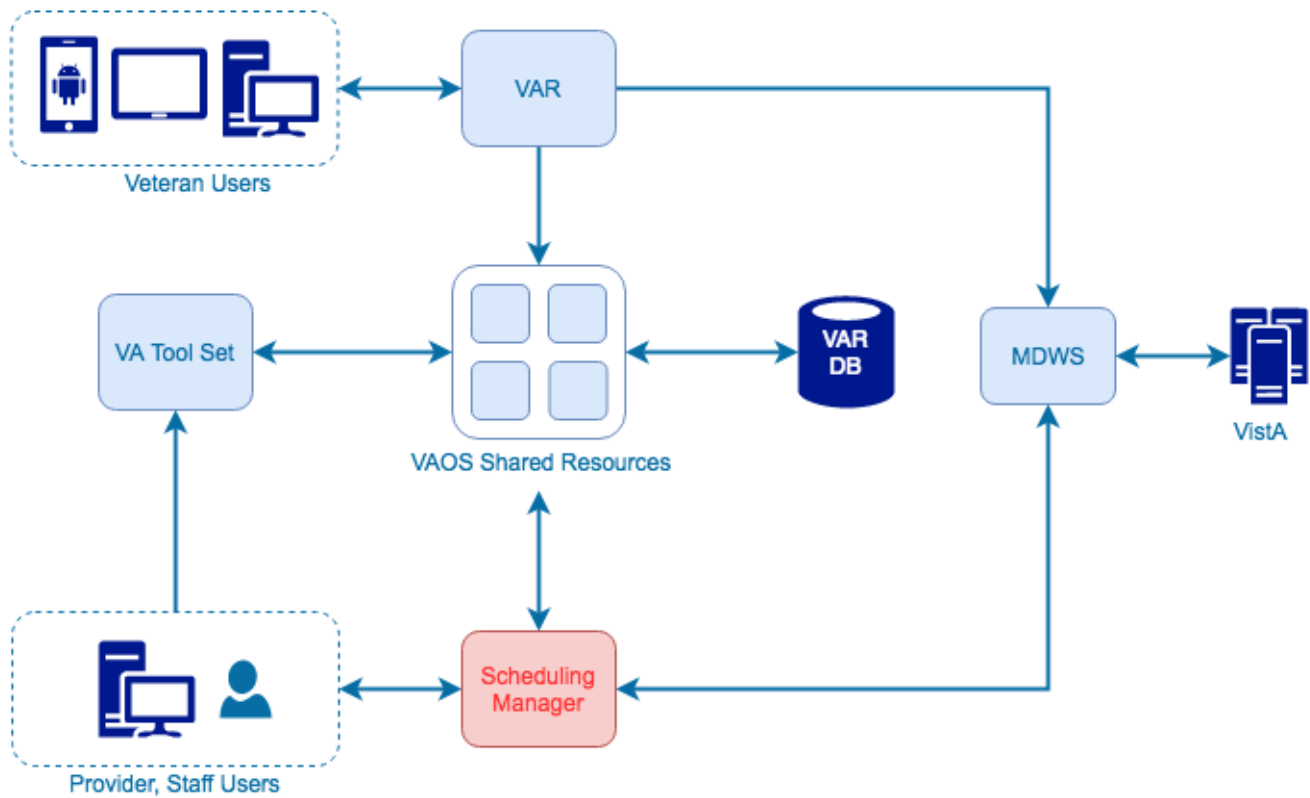
Design Principles and Patterns

- Single Page Application - Single Page Application design pattern will be leveraged.
- Application Specific Dependencies - External REST service dependencies are managed through application specific resource directory (resource-directory.json) packaged with the application. Each REST service endpoint is defined with a "title" and "href". For convenience, all the dependencies are identified in the VAMF Interfaces section.
- REST Conventions - The application works with data using HTTP verbs. GET is used for retrieving data, POST is used for creating or processing data, PUT is used for updating data and DELETE is used for deleting data.
- Exception Handling using HTTP standards - Exception handling is performed based on HTTP status codes. Bad Request (status code 400) is handled at the Model or Resource level. Internal Server Error (status code 500) is handled globally within the application.
- Leveraging common VAMF Services such as Authorization Services and Metric Services.

Conceptual Perspective

Component diagram depicting how the **Scheduling Manager** application connects with the **VAR** application is illustrated below.

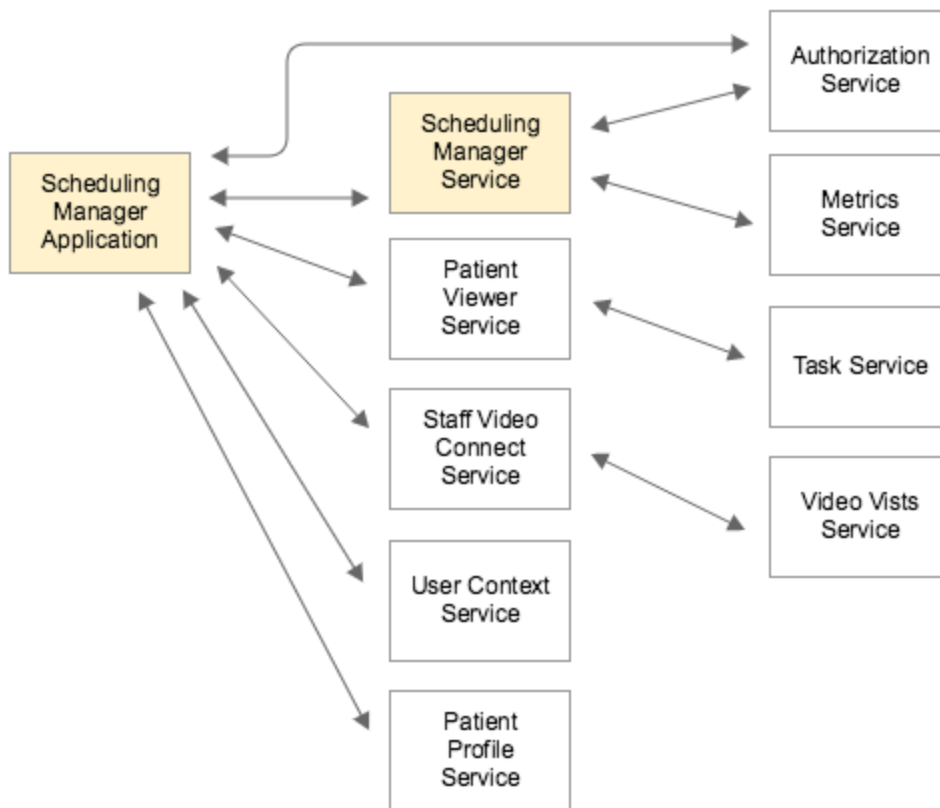
Component Diagram



Logical Perspective

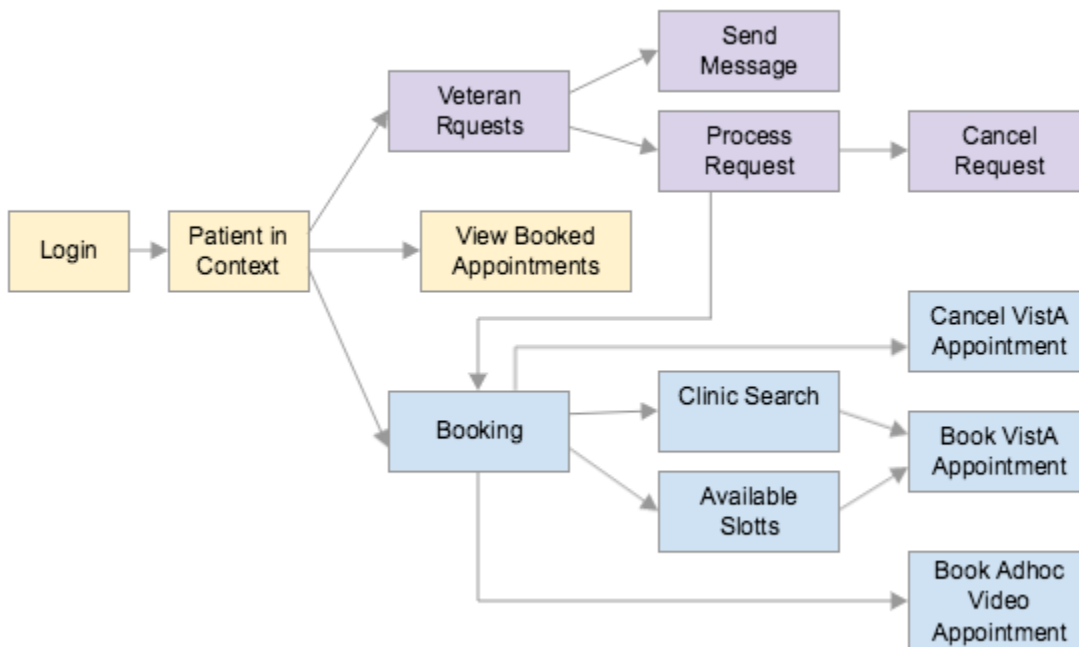
Service Dependencies Diagram

Scheduling Manager service dependencies is illustrated in the diagram below.



Logical Functional Diagram

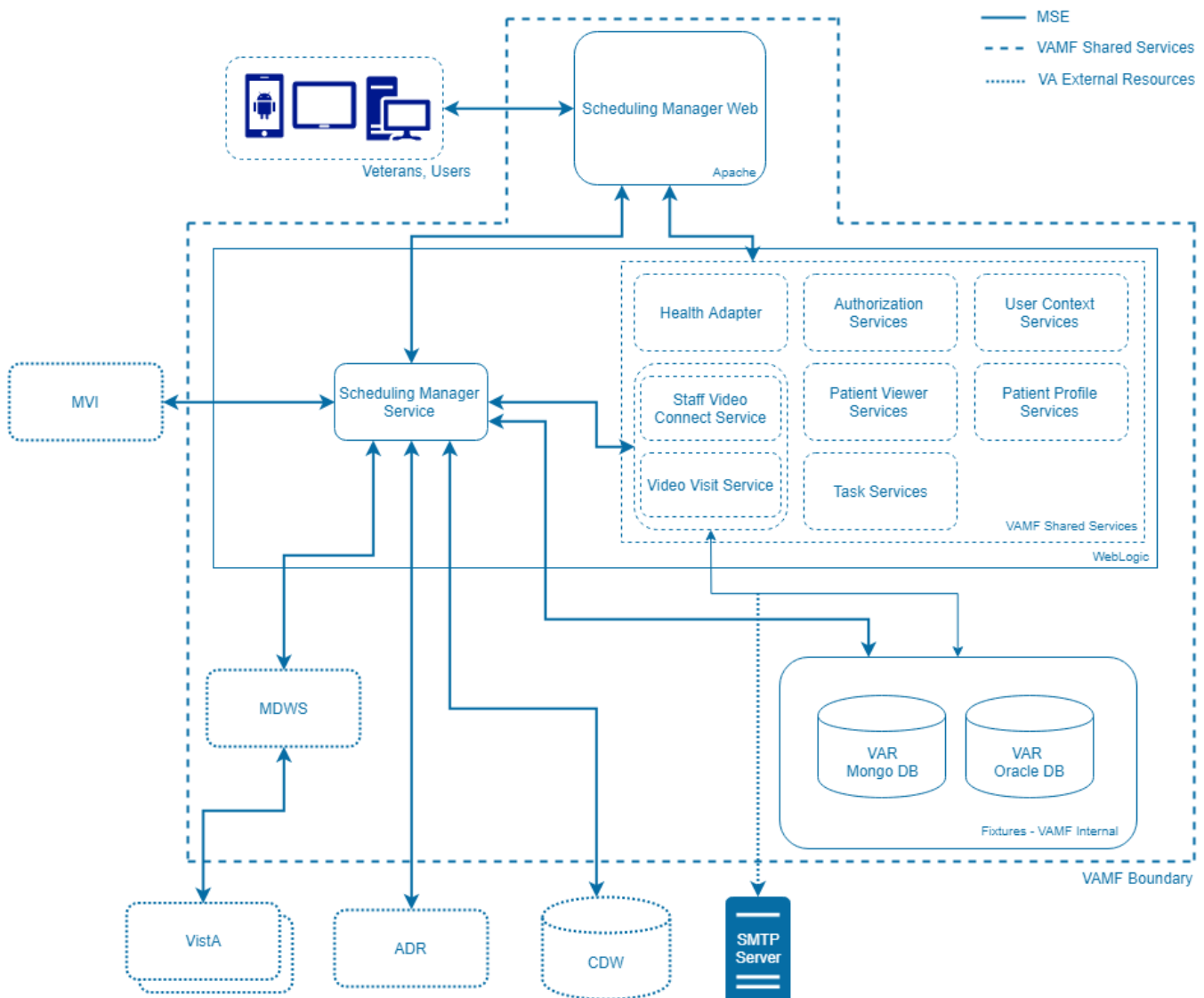
Scheduling Manager logical functions are depicted below. The three main functional areas provide application entry points for Veteran Requests, Booking, and View Booked Appointments for the selected patient in context. Subsequent actions in each functional area are as illustrated.



Physical Perspective

Deployment of the entirety of the **Scheduling Manager** application is depicted in the diagram below. The diagram highlights several key high-level interactions between the various components supporting the software. The **Scheduling Manager Web (UI)** application is deployed to Apache. The **Scheduling Manager Service** application is deployed to the WebLogic cluster alongside its dependent shared services. **Scheduling Manager 2.x** is intended for deployment in Platform Stabilization. **Scheduling Manager Service** leverages **MDWS** to make requests to **VistA** for EHR data including demographics and appointments. **Scheduling Manager Service** makes direct requests to **CDW**, **ADR**, and **MVI** for patient information and correlation data, and accesses the **VAR Mongo DB** and **VAR Oracle DB** for appointment information. Both **Scheduling Manager Service** and **Video Visit Service** connect to an external **SMTP Server** to complete workflows relevant to this application. Please refer to the **Video Visit Service** SRVDD for additional information and component dependencies not listed in this diagram. Please also refer to the other **VAMF Shared Services** SRVDDs for additional information and component dependencies related to those services independently, but not listed in this diagram.

Deployment Diagram (Platform Stabilization Environment)



Supported Devices

Device's OS	Native	Hybrid	Web-Only	OS version supported	Targeted Devices (iPhone, iPad, Samsung model...)	Estimated Storage Required for Device
iOS			X	IOS 10	iPad	
Windows 8			X	Windows 10	IE 11	

Technology Stack

Technologies, Libraries, and Tools Used in the App	Version	On the TRM? (If not, provide a link to the waiver)
HTML5	5	N/A
CSS	3	N/A
BackboneJS	1.1.2	N/A
Marionette	1.8.8	N/A
jQuery	1.11.3	N/A
jQuery Mobile	1.3.2	N/A
Lo-Dash	2.4.1	N/A
Moment	2.7.0	N/A
RequireJS	2.1.14	N/A

Developer and Program Manager (PM) Contact Information

Developer Name/Point of Contact (POC)	VA E-Mail Address	Phone Number
Doug Kurucz	douglas.kurucz@va.gov	(703) 594-8640
Developer Organization/Company	Contract Start Date	Contract End Date
AbleVets, LLC		
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