

# Immunization Campaign - SDD - System Design Document Addendum

## 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: **Immunization Campaign V 1.0**

Product Version: **1.0**

	Veteran	Care Giver	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>• Veteran's preclinical symptoms</li><li>• Veteran's demographic information</li><li>• Veteran's Immunization information</li><li>• Vaccine information used in immunization campaign</li><li>• Veteran's Encounter information</li></ul>	Mobile Application's local MONGO DB
Does Mobile Application store information or data entered by the User? If yes, where is it stored?	X		<ul style="list-style-type: none"><li>• Veteran's preclinical symptoms</li><li>• Veteran's demographic information</li><li>• Veteran's Immunization record</li></ul>	Mobile Application's local MONGO DB
Does Mobile Application transmit/push data entered outside of the VAMF to VA?	X		<ul style="list-style-type: none"><li>• Veteran's Immunization record (specifically, V IMMUNIZATION FILE)</li><li>• Veteran's Encounter information</li></ul>	VistA
Does Mobile Application pull data from a VA Database (external to VAMF)?	X		<ul style="list-style-type: none"><li>• Veteran's Immunization record</li></ul>	CDW

Does the Mobile Application store in the VAMF or on the device data pulled from a VA Database?		X		
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This application can be classified as one of the following:

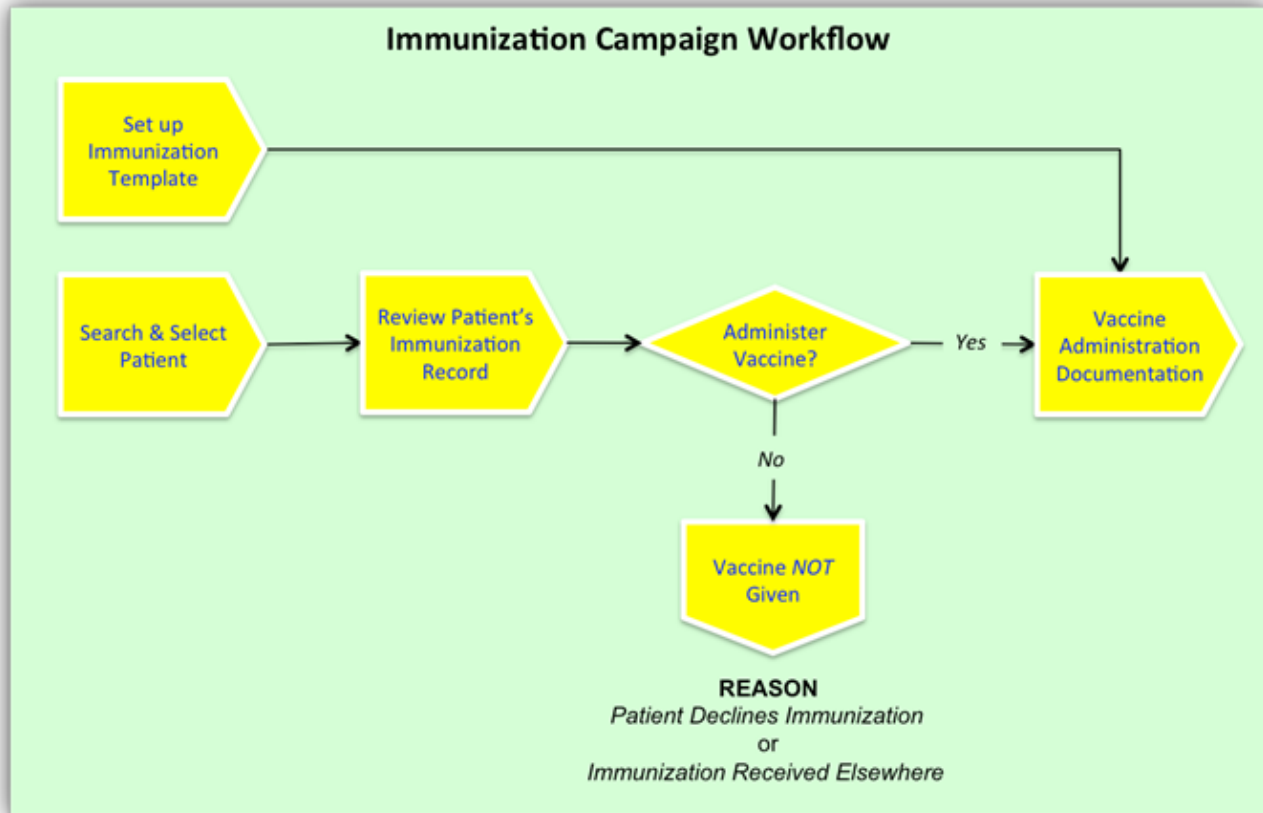
Mobile Application Classification (Only one box may be checked)	Mark with X
1 – Very Low: Mobile Application does not use VA Resource	
2 – Low: Read only access to VA Resource(s) (No PII / PHI)	
3 – Medium: Write access to VA Resource(s)	
4 – High: Read and/or Write access of sensitive data to VA Resource(s) (Includes PII/PHI/other sensitive)	X

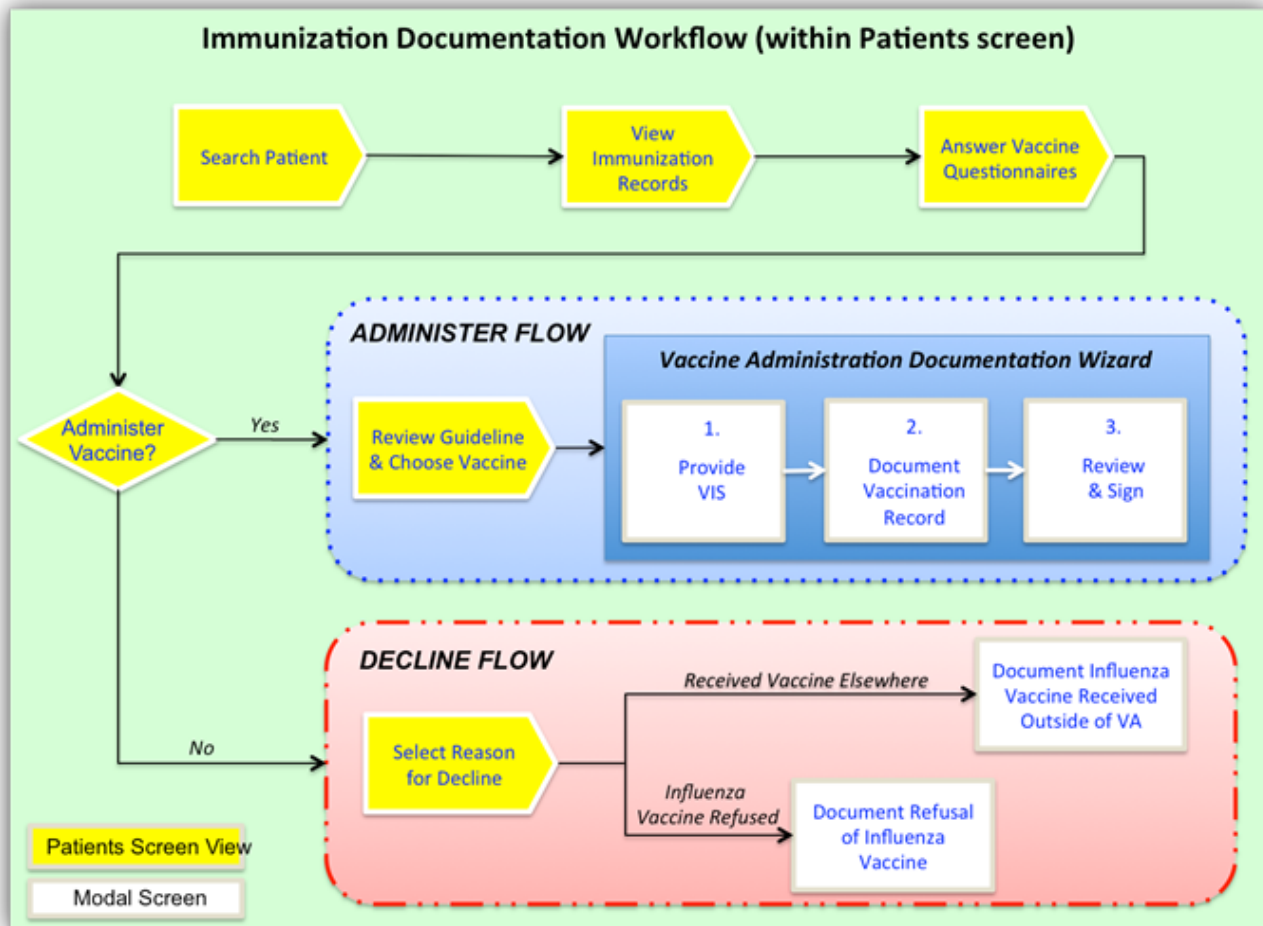
### Application Design

The purpose of the mobile Immunization Campaign App is to support VA providers in documenting Veteran immunizations. The workflow shall include assessment for contraindications or precautions for immunization, documentation of vaccine administered and immunization lot number (dose, site, etc.).

**NOTE:** The current version of the app supports the Influenza immunization only.

The following workflows illustrated below summarizes the high-level process of Immunization Campaign Workflow and Immunization Documentation Workflow.





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

Technologies, Libraries, and Tools Used in the App	Version	On the TRM? (If not, provide a link to the waiver)
HTML5	5	Yes
MongoDB		?? (No - Waiver)

#### Data Architecture

Add a table like the below for listing NoSQL data collections stored. This is sample data--replace it with your own:

Ref #	NoSQL Collection	Description of data collection	Source of data	Structure

Add tables like this for Relational tables:

Column Name	Data Type	Nullable	Description	PK	FK

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)

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

Sent application information to the FDA on whether application should be considered a medical device. It was not deemed to be a medical device, therefore no FDA regulations need to be covered.

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

User Category	Total Number of Users	Concurrent Users
Providers	45 – 10,000	1000

## 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

### New/Updated VAMF Interfaces Added

This section should contain services that are being deployed with this app - RESTful / other web services that become part of the VAMF service inventory, but are not available in production yet.

Interface Name (incl. version #)	Data Used by Mobile App	Source of Data	Included in Program-Level SDD?

For all services not currently in the Program-Level SDD, provide the documentation here that should be included - services, request data, response data, etc.

### 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
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Web Services		Web Services are needed for the push/pull and authentication

#### Traceability

EPIC	FEATURE	USER STORY	DESIGN COMPONENT
See RTM/JIRA story extract			

#### 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
LongView (FirstView)/AgileX	September 26, 2012	September 25, 2014
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