# System Design Document (SDD) 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.

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

**Mobile Application Information**

Project Increment / Release Designation: <insert – example: MBB National Release, or MoveCoachMobile v2>

Product Version:  x.x (do not need minor version unless this is known)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Veteran** | **Care Giver** | **Provider** | **Public** |
| Intended Audience for Mobile Application |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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? |  |  |  |  |
| Does Mobile Application store information or data entered by the User? If yes, where is it stored? |  |  |  |  |
| Does Mobile Application transmit/push data entered outside of the VAMF to VA? |  |  |  |  |
| Does Mobile Application pull data from a VA Database (external to VAMF)? |  |  |  |  |
| Does the Mobile Application store in the VAMF or on the device data pulled from a VA Database? |  |  |  |  |

**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) |  |

**Application Design**

|  |
| --- |
| Provide design information, diagrams, etc. about the mobile application. Include:   * Diagram showing architecture * Diagram showing the components of the app * Description / diagram of data flows if appropriate - for example, show flows to external systems, services within the VAMF, etc. |

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

|  |  |  |
| --- | --- | --- |
| **Technologies,** **Libraries, and Tools Used in the App** | **Version** | **On the TRM? (If not, provide a link to the waiver)** |
| HTML5 | 5 | Yes |
| Cordova | 2.9 | Yes |
| Backbone | Etc. |  |
| MongoDB | <version> | No - <insert URL to MongoDB 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** |
| 1 | BPR.User | The bprUser collection enumerates the Veterans or Service members who have used the application. | MVI, VIERS | var bprUserSchema = new db.mongoose.Schema({ userId: String, edipi: String, \*\* other fields deleted to make this shorter serviceStatus: { type: String, enum: [ 'VETERAN', 'ACTIVE\_DUTY' ] }, userState: { state: { type: String, enum: [ 'ELIGIBLE', 'NOT\_ELIGIBLE', 'CONSENT', 'NOT\_CONSENT', 'REVIEW\_REQUESTED', 'REVIEWED\_NOT\_ELIGIBLE', 'PARTICIPANT' ] }, lastUpdated: Date } |
|  |  |  |  |  |

Add tables like this for Relational tables:

| **Column Name** | **Data Type** | **Nullable** | **Description** | **PK** | **FK** |
| --- | --- | --- | --- | --- | --- |
| CODE | varchar(255) | N | Auth Code granted to client | Y | N |
| AUTHENTICATION | BLOB | Y | Serialized OAuth Authentication object | N | N |
|  |  |  |  |  |  |

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)** |
| CODE | 1 per app | 1024 bytes | 1024 bytes |
| PERSON | 1000 users | 2048 bytes | 2MB |
| etc. |  |  |  |

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

<insert here>

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

|  |  |  |
| --- | --- | --- |
| **User Category** | **Total Number of Users** | **Concurrent Users** |
| Veterans | any OEF - 1M+ | 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** |
| Auth Services 4.0 | Authentication Response | DSLogon | First name, last name, EDIPI |
|  |  |  |  |
|  |  |  |  |

### 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?** |
| Consult Services | XXX Table | CDW | No |
|  |  |  |  |
| Add rows as needed |  |  |  |

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

<Insert design of Consult Services here>

**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** |
|  |  |  |
|  |  |  |
|  |  |  |

**Traceability**

|  |  |  |  |
| --- | --- | --- | --- |
| **EPIC** | **FEATURE** | **USER STORY** | **DESIGN COMPONENT** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**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** |
|  |  |  |