

# Modernized Progress Notes 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: [Modernized Progress Notes pilot project, will be v1.0 at release](#)

Product Version: [v1.0 when released](#)

	Veteran	Care Giver	Provider	Public
Intended Audience for Mobile Application			x	

**Please Note: this application currently resides in a contractor environment and does not pull from ANY VA system**

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		Form Definitions and Form responses / Authentication Information	VAMF SmartForms (orbeon) Database (SQL Server) / Auth Services via Staff Login
Does Mobile Application store information or data entered by the User? If yes, where is it stored?	X		Form Definitions and Form responses	VAMF SmartForms (orbeon) Database (SQL Server)
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		Patient Data using Patient Search	Using Health Adapter data is pulled from VistA
Does the Mobile Application store in the VAMF or on the device data pulled from a VA Database?	X		Patient Identifier	Using Health Adapter data is pulled from VistA

This application can be classified as one of the following:

Mobile Application Classification (Only one box may be checked)	Mark with X
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1 – Very Low: Mobile Application does not use VA Resource	X
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)	

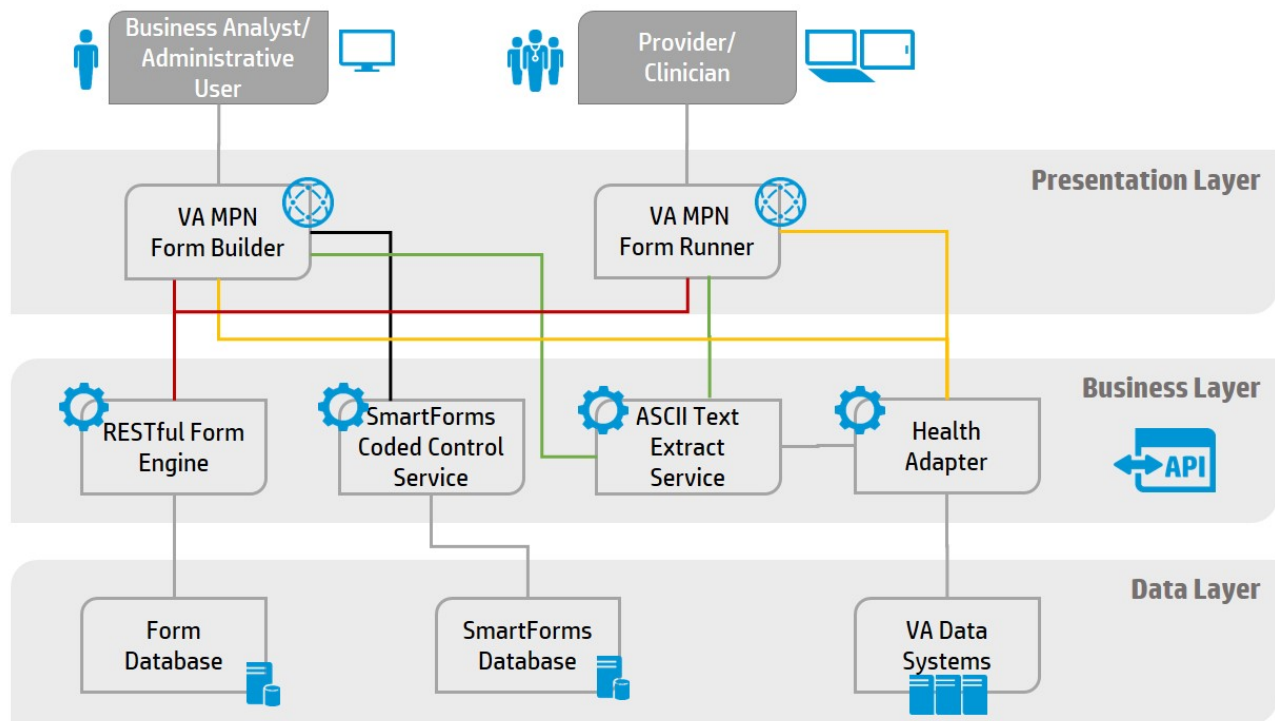
## Application Design

Reference the Modernized Progress Notes (MPN) SDD document:

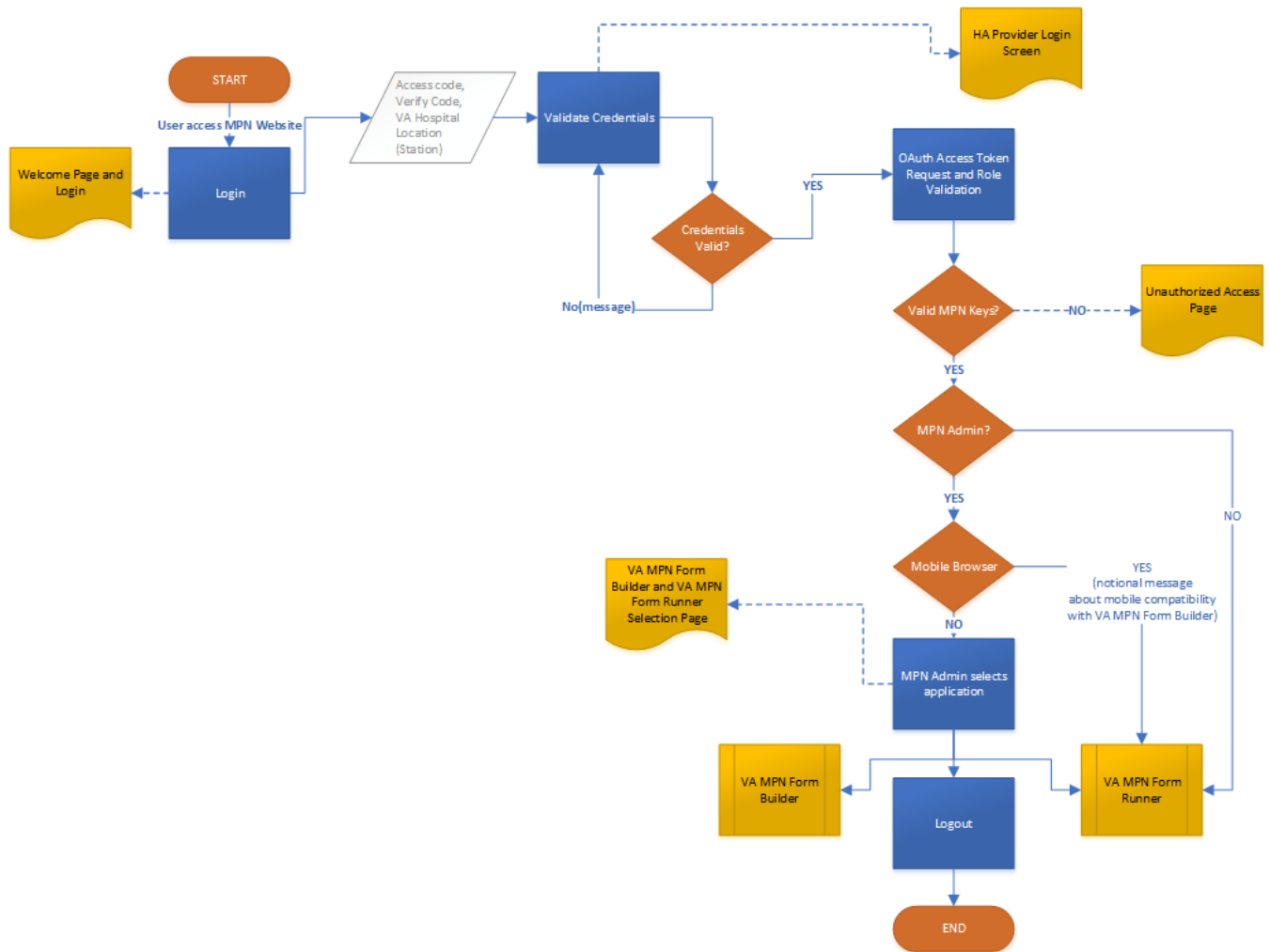
Section: 2. Background

Section: 3. Conceptual Design

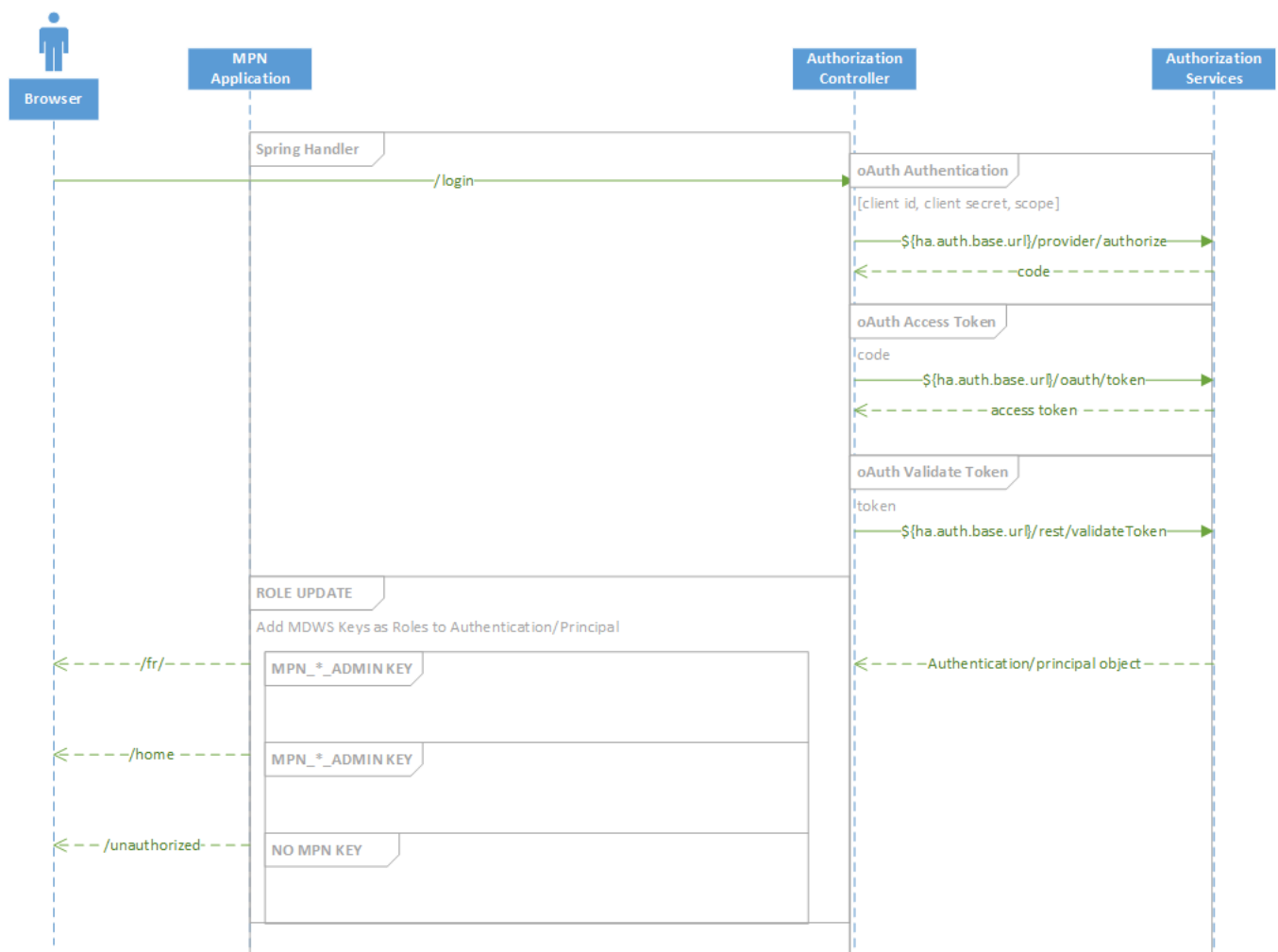
## Application Architecture



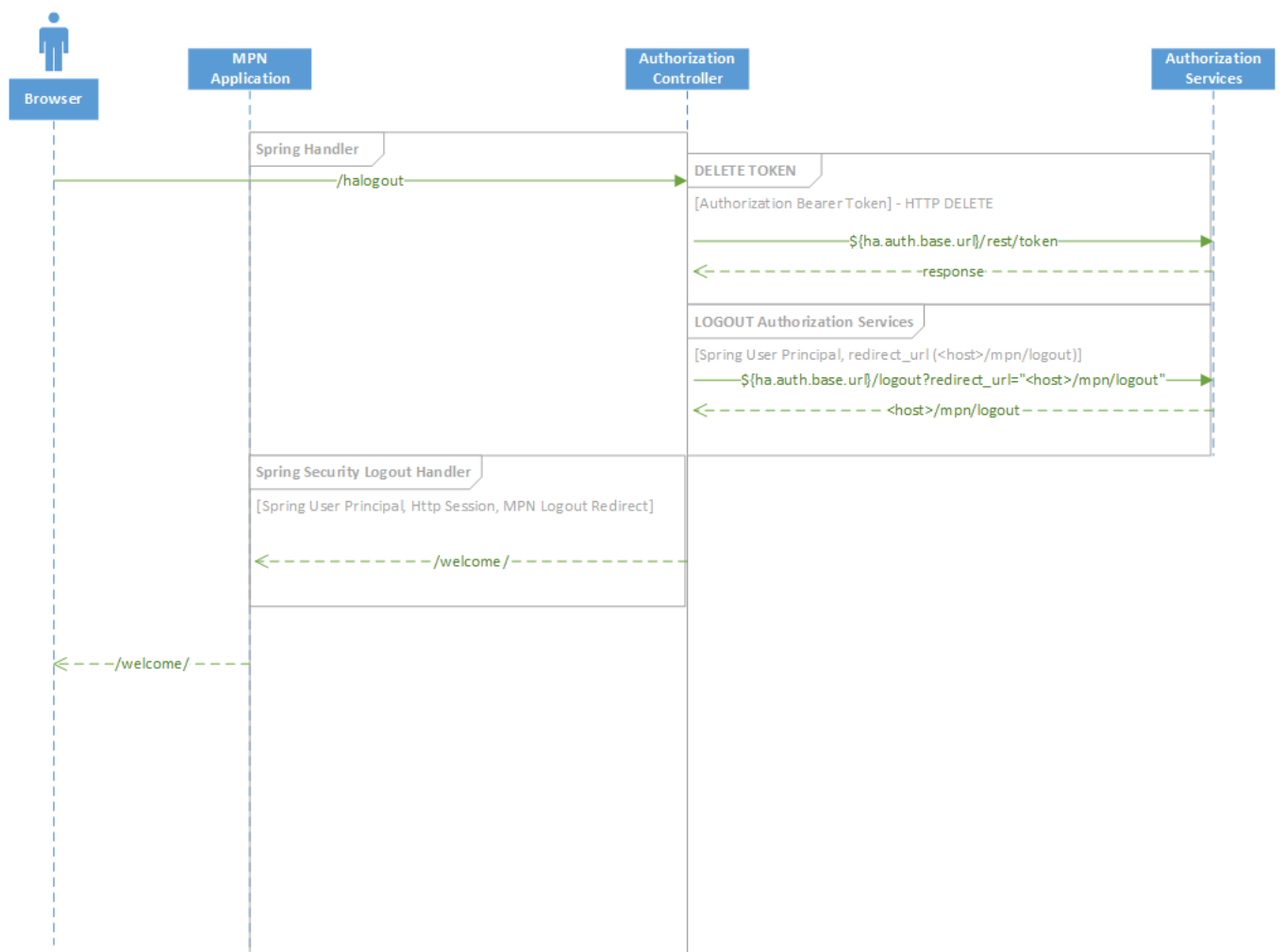
## VA Modernized Progress Notes Login



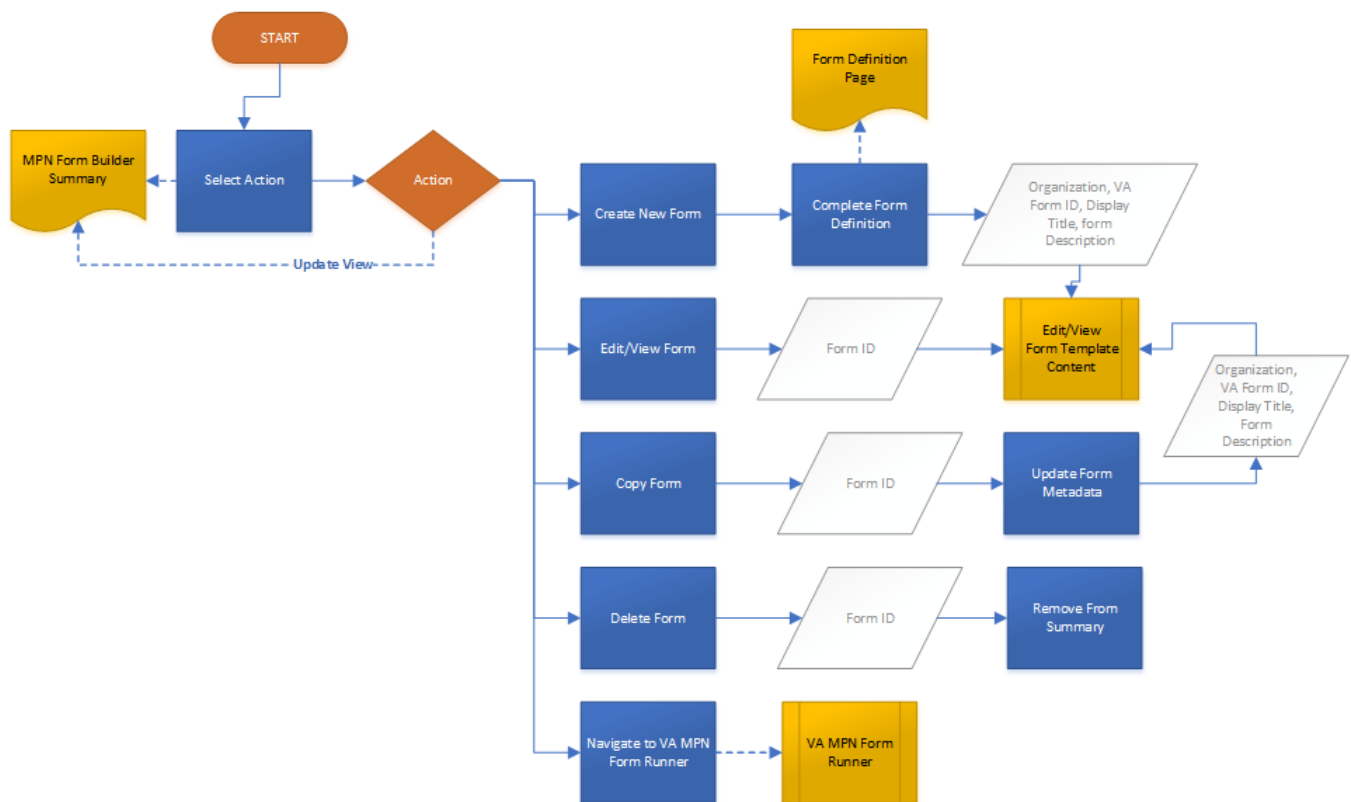
## VA Modernized Progress Notes Login Sequence



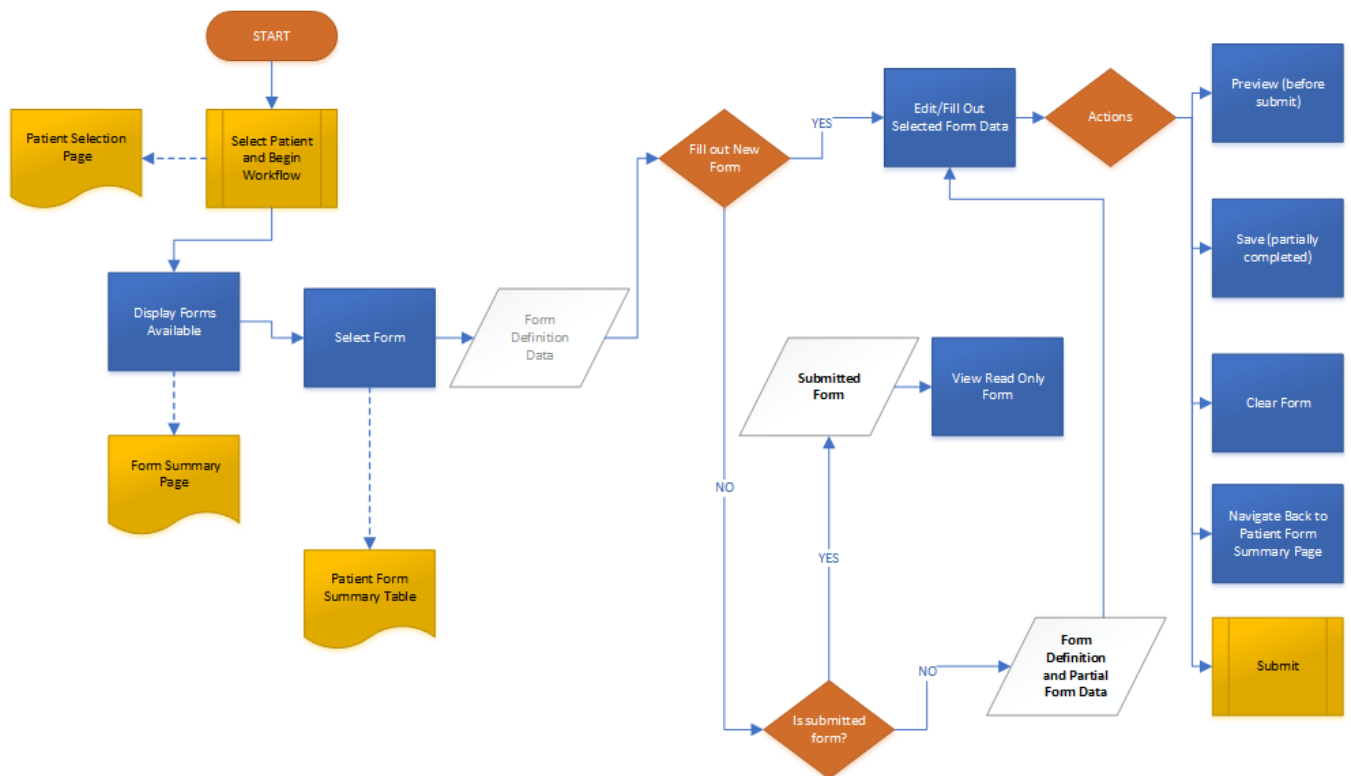
## VA Modernized Progress Notes Logout Sequence



## VA Modernized Progress Notes Form Builder



## VA Modernized Progress Notes Form Runner



Device's OS	Native	Hybrid	Web-Only	OS version supported	Targeted devices (iPhone, iPad, Samsung model...)	Estimated Storage Required for Device
iOS			X	7+		
Android						
Windows			X	IE11 (Windows 7+)		

Technologies, Libraries, and Tools Used in the App	Version	On the TRM? (If not, provide a link to the waiver)
Java	7 (latest update)	Yes
Spring Framework	4.0.5	Yes
Spring Security	3.2.4	Yes
Apache CXF	3.0.0	Yes
Microsoft SQL Server Enterprise Edition 2012 <ul style="list-style-type: none"> <li>Including full text search</li> </ul>	Enterprise Edition 2012	Yes
Orbeon Forms	4.7+	Yes

## Data Architecture

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

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

Table name, Data Type, Nullable, Description, Primary Key and Foreign Key information is contained within the Data Definitions document for the VA MPN project: [VA MPN Data Definitions](#)

Provide some volume / sizing information for each collection / table:

**Please refer to the the Data Definition Document**

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?

Section 508 of the Rehabilitation Act (29 U.S.C. § 794d), as amended by the Workforce Investment Act of 1998 (P.L. 105-220), August 7, 1998.

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

**VA MPN is a pilot project and will not be released into Production for this iteration. VA MPN is also completely contained in the contractor environment.**

**The information provided below are the metrics as identified in the PWS when the application is eventually released for the WYSIWYG editor.**

User Category	Total Number of Users	Concurrent Users
Clinicians	50000	10000

## Interface Design

### Existing VAMF Interfaces Used

(This section means VAMF services already deployed in production for this app)

Interface Name	Version	Endpoint	Data Used by Mobile App	Source of Data	Data Retrieved - provide specific data elements used by this app
Authorization Services	4.1.0-SNAPSHOT	/AuthorizationServices/provider/authorize	Used by MPN Auth to retrieve OAuth Access Token after successful authentication	VAMF Authorization DB	OAuth Code
Authorization Services	4.1.0-SNAPSHOT	/AuthorizationServices/oauth/token	Used by MPN Auth to provide to webservices and retrieve J2EE Principle Object	VAMF Authorization DB	OAuth Access Token
Authorization Services	4.1.0-SNAPSHOT	/AuthorizationServices/rest/validateToken	Used by MPN Application to retrieve J2EE User Principle to help with authorization with the J2EE Application	VAMF Authorization DB	J2EE Principle Object
Authorization Services	4.1.0-SNAPSHOT	/AuthorizationServices/rest/	Cleanup of the user's token in the token store, removes the token (HTTP DELETE)	VAMF Authorization DB	NONE
Authorization Services	4.1.0-SNAPSHOT	/AuthorizationServices/logout	Cleans up session and logs user out of Staff Login Page	Authorization Services Provider Login Page	NONE
Health Adapter	3.2.0	/rest/patients	Patients (List of Patient Objects) is used to allow the staff member to search and select specific patient	Staff Connected VistA systems based on station	Patients(List of Patient Objects)

### 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.

Please refer to the the [VA MPN Interface Control Document](#) for more details.

Interface Name	Version	Endpoint	HTTP Method	Data Used by Mobile App	Source of Data	Included in Program-Level SDD?
Orbeon RestFul Form Engine		/crud/orbeon/builder/data/{FORM_DATA_ID}	GET, PUT, DELETE	Form Definitions	Orbeon Database	NO
Orbeon RestFul Form Engine		/crud/{ORGANIZATION}/{VA_FORM_ID}/form	PUT, GET	Published Form Definitions	Orbeon Database	NO



Orbeon RestFul Form Engine		/crud/{ <b>ORGANIZATION</b> }/{ <b>VA_FORM_ID</b> }/data/	DELETE	Removal of form data instances	Orbeon Database	NO
Orbeon RestFul Form Engine		/crud/{ <b>ORGANIZATION</b> }/{ <b>VA_FORM_ID</b> }/{data draft}/{ <b>FORM_DATA_ID</b> }/data.xml	GET, PUT, DELETE	Form Response Data	Orbeon Database	NO
Orbeon RestFul Form Engine		/search/{ <b>ORGANIZATION</b> }/{ <b>VA_FORM_ID</b> }	GET	Search of form data	Orbeon Database	NO
Coded Controls Service	1.0	codedcontrolservice/control/{ <b>path</b> :.*}	GET	Coded Control	Coded Control Database	NO
Coded Controls Service	1.0	codedcontrolservice/control/byuuid/uuid/{ <b>uuid</b> }	GET	Coded Control	Coded Control Database	NO
Coded Controls Service	1.0	codedcontrolservice/categories/	GET	Categories for a coded control	Coded Control Database	NO
Coded Controls Service	1.0	codedcontrolservice/classes/	GET	Classes for a coded control	Coded Control Database	NO
Coded Controls Service	1.0	codedcontrolservice/control/	PUT	Creation of a coded control	Coded Control Database	NO
Coded Controls Service	1.0	codedcontrolservice/control/	POST	Update of a coded control	Coded Control Database	NO
Coded Controls Service	1.0	codedcontrolservice/control/uuid/{ <b>uuid</b> }	DELETE	Delete a coded control	Coded Control Database	NO
ASCII Text Extract Service	1.0	/asciiservice/	POST	Convert XML to ASCII Text	Orbeon Database	NO

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

**NONE**

Project Dependency	Point of Contact Information	Describe Dependency

#### Traceability

Epic names are the names of the design components.

See JIRA project for further details: [H \[REDACTED\]](#)

#### Developer & PM Contact Information

Developer Name/Point of Contact (POC)	VA E-Mail Address	Phone Number
[REDACTED]	[REDACTED]	[REDACTED]
Developer Organization/Company	Contract Start Date	Contract End Date
[REDACTED]	[REDACTED]	[REDACTED] 5

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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