**Software Requirements Specification**

**VeniApps System**

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04 February 2015

**Location of electronic version of file**

**Team Group X**

[**https://github.com/rmurray1/veniapp.git**](https://github.com/rmurray1/veniapp.git)

***The Veni VA Checkin System***

Advanced Software Engineering Project

SE 6387.M01



*Anant Kambli*

*Brian MacKay*

*Raleigh Murráy*

*Shahed Shuman*

*Kathryn Whitmore*

# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Version | Changed By | Description |
| 04-Feb-2015 | 1.0 | RM | Initial Release |
|  |  |  |  |
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# 1. Introduction

## 1.1 Purpose

*The purpose of this Software Requirements Specification (SRS) document is to provide a detailed description of the functionalities of the Veni Check-in system. This document will cover each of the system’s intended features, as well as offer a preliminary examples of the software application’s User Interface (UI). Additionally, this document will also cover hardware, software, and various other technical dependencies.*

## 1.2 Scope

*The Veni System is composed of the following:*

1. *A client-side application which will run on Android or IOS smartphone*
2. *A server-side application which implements the Veni System business logic and broker communication between the mobile client and Veteran Affairs (VA) Veterans Health Information Systems and Technology (VistA) Electronic Health Record System (EHR)*
3. *The Veni System will allow a Veteran to manage his/her VA appointments via a mobile application and check-in electronically*
4. *The Veni System will leverage open source technologies to reduce the cost of ownership to the VA and lower the complexity to implementation*

## 1.3 Definitions, Acronyms, and Abbreviations.

*Terminology associated with this document are defined in Appendix A. A glossary contains a list of terms and respective definition.*

## 1.4 Overview

*This document is intended for all users that participate in the VA Patient check-in process or supervise those individuals. For a more descriptive look for a developer, please review section 3.*

# 2. The Overall Description

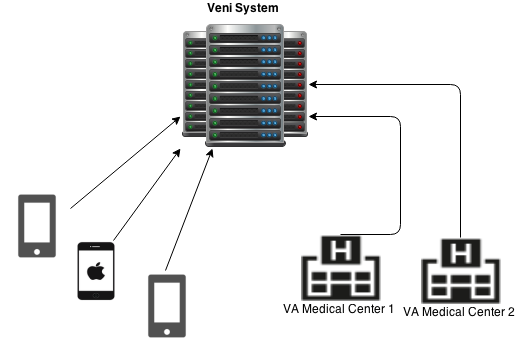
*The Veni System consist of a smartphone client and server-side componets. Both parts are equal important in the development of the overall system. The server-sdide component is responsible for access the respective VistA System and provide access to data to the smartphone. Because of the significant importance of both systems*

*both aspects are detailed in this document.*

## 2.1 Product Perspective

*The product shall support the following:*

* *Sending and receiving VA appointment information to a central source*
* *Geo location services for identifying VAMC locations*

**

*Figure 1.*

### 2.1.2 Software Interfaces

*Specify the use of other required software products and interfaces with other application systems. For each required software product, include:*

1. *VistA RPCBroker*
2. *Version 1.1*
3. *Source:* [*http://www.va.gov/vdl/documents/Infrastructure/Remote\_Proc\_Call\_Broker\_(RPC)/xwb\_1\_1\_dg.pdf*](http://www.va.gov/vdl/documents/Infrastructure/Remote_Proc_Call_Broker_(RPC)/xwb_1_1_dg.pdf)

## 2.3 User Characteristics

*The Veteran will be the principle user of the Veni System smartphone application.*

*VA clinical staff in charge of the VA check-in process will be familiar with the smartphone application.*

*VA Office of Information and Technology (OI&T) will be the principle administrator of the Veni System server application.*

## 2.4 User Documentation

*The final deliverable will include a software document folder(SDF). The SDF will contain tutorials and user manuals for the Veni System smartphone client and Veni System server application. The deliverable shall be sent to the customer in the form of a zip file. An electronic download will be available to the customer.*

# 3. Hardware Specification

## 3.1. Hardware

*The user must user an Android or IOS smartphone*

# 4. External Interface Requirements

## 4. 1. User Interfaces

*Smartphone interface*

## 4. 2. Hardware Interfaces

*Smartphone location services*

## 4. 3. Software Interfaces

*Smartphone calendar*

## 4. 4. Communication Protocols and Interfaces

*Google Map API*

[*https://developers.****google****.com/****maps****/*](https://developers.google.com/maps/)

# 5. System Features

## 5.1. VETERAN REGISTRATION AND WELCOME

### 5.1.1. Description

*When the the Veni System smartphone application is run for the first time, the user is presented with an initial registration/welcome screen. The screen will prompt the user for his/her email address, Veteran ID number, and which VA medical center he/she attends.*

### 5.1.2. Action/result

1. *The veteran starts the Veni App on his/her phone the first time*
2. *The Veni App asks for personal information*
3. *The Veni App establishes the veteran’s credentials*
4. *The Veni App asks for information about which VA health care facilities the veteran frequents*
5. *The veteran is registered for the system*

### 5.1.3. Functional Requirements

*VSU-01: The user must enter a valid email requirements*

*The user must provide a valid email address. The application will verify that*

*the user’s input is consistent with the format (*[*xxxxx@xxxx.xxxx*](mailto:xxxxx@xxxx.xxxx)*).*

*VSU-02: The user must provide VA Benefits card identification*

*VSSC-01: The application shall provide registration capability with the system.*

### 5.1.4. NFR

*User must be a receiptant of VA benefits*

## 5.2. DOWNLOAD APPOINTMENTS

### 5.2.1. Description

*The veteran will be able to download his/her appointments list to the Veni appointment list.*

### 5.2.2. Action/result

1. *The Veni App asks which VA health care facilities the veteran frequents*
2. *The veteran is registered for the system*
3. *The veteran’s appointment list is downloaded to the smartphone*

### 5.2.3. Functional Requirements

*VSU-01: The user must enter a valid email requirements*

*The user must provide a valid email address. The application will verify that*

*the user’s input is consistent with the format (*[*xxxxx@xxxx.xxxx*](mailto:xxxxx@xxxx.xxxx)*).*

*VSSC-02: The application shall display the recieved veteran’s appointment list.*

### 5.2.4. NFR

# Non Functional Requirements Information

# Appendix A

*User Interface (UI)*

*Veteran Affairs (VA)*

*Veterans Health Information Systems and Technology (VistA)*

*Electronic Health Record System (EHR)*

*Office of Information & Technology (OI&T)*