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| *VENI App* |
| **Executive Summary** |
| **SE 6387 Advanced Software Engineering Project**  **R.Z. Wenkstern**    ***April 22, 2015*** |

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**Revision History**

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| **Version** | **Date** | **Description** | **Authors** |
| 1.0 | 16-Dec-2014 | Completed initial draft | Group |
| 2.0 | 05-Feb-2015 | Re-write of entire document | Group |
| 3.0 | 14-Apr-2015 | Date correction | K. Whitmire |

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# **Executive Summary**

Veterans Affairs (VA) is the largest managed integrated health network in the country. On average VA provides care to more than 6 million Veterans from more than 150 hospitals, 800 clinics and 135 skilled nursing home facilities. VA’s Electronic Health Record (EHR), called VistA (Veterans Health Information Systems and Technology Architecture), is the heart, soul, and integral electronic information service essential to the quality of care the VA delivers. How can we leverage VistA integrated capabilities? How do we empower Veterans? Let us start with the “VENI App Check-in System.” The VENI App Check-in System is a cloud based system that allows veterans to seamlessly check in to all clinics from his or her smartphone.

With the country winding down from more than 10 years of war, the veteran population has become much younger and much more technically adept. Not every veteran will want to use a smartphone application to interact with VA medical facilities, but with a clientele that numbers in the millions, the number of potential users is very large. The current check-in process at the VA requires veterans to wait in line to check-in with either an administrator or a kiosk. Throughout the VA medical system, veterans and their families can spend hours waiting in line to check-in for their appointments. Once checked-in at the reception, they have another wait after arriving at the appropriate doctor’s office or clinic. Mistakes as a result of incorrectly transcribed appointment information only compound the problem. The *Veni* system will allow veterans to check-in upon arrival without this ridiculous wait-time, plus have the capability to download appointment times and related information and give directions to the appointment facility and office location.

The system will include three components: a user interface in the form of a smartphone app, a cloud server interface to handle communication between the phone and the VA VistA database, and a cloud virtual machine to simulate the VistA database (for initial prototype usage). For the VA, the system offers a simple lightweight solution that will free administrative staff from the check-in process. With a simplified, veteran-focused, check-in experience, the reception area can be rededicated to offer services other than simple registration.

The system has been constructed with a mindset to reduce cost, minimize support and implementation. Open source tools and technologies were leveraged to reduce the cost and expenditure, so the VA can spend monies on our returning home veterans. From one veteran to the next, *Veni* got your “six”!