Software Requirements Specification

for

<Project Name>

at The Department of Electrical and Computer Engineering,

The University of the West Indies

St Augustine Campus

Trinidad

Version x.x.x (Draft/Approved)

Prepared by:

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# Document Control

Title:

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## Document Signoff

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| --- | --- | --- | --- |
| Nature of Signoff | Person | Signature with Date | Role |
| Author  Reviewees | Severus, Albus, Mad Eye  Lord Eddard Stark |  | Project Manager, Requirements Analyst and Consultant  QA Officer |

## Document Change Record

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| Date | Version | Author | Change Details |
| 13 Sept 2017  14 Sept 2017  15 Sept 2017 | 0.0.0  0.1.0  1.0.0 | J K Rowling  Charles Martin  HBO | Initial template commit  Killed everybody  Rewrote section on Jon Snow |

# 1. Introduction

## 1.1 Purpose

<Identify the product whose software requirements are specified in this document, including the revision or release number. Describe the scope of the product that is covered by this SRS, particularly if this SRS describes only part of the system or a single subsystem.>

## 1.2 Product Scope

<Provide a short description of the software being specified and its purpose, including relevant benefits, objectives, and goals. Relate the software to corporate goals or business strategies. If a separate vision and scope document is available, refer to it rather than duplicating its contents here.>

<A product scope/context diagram should be presented here. See: <https://www.youtube.com/watch?v=iY7xZ8Nut5A>>

## 1.3 References

<List any other documents or Web addresses to which this SRS refers. These may include user interface style guides, contracts, standards, system requirements specifications, use case documents, or a vision and scope document. Provide enough information so that the reader could access a copy of each reference, including title, author, version number, date, and source or location.You shoud do this section last - before publishing the specification>

# 2. Overall Description

## 2.1 Product Perspective

<Describe the context and origin of the product being specified in this SRS. For example, state whether this product is a follow-on member of a product family, a replacement for certain existing systems, or a new, self-contained product. If the SRS defines a component of a larger system, relate the requirements of the larger system to the functionality of this software and identify interfaces between the two.

A simple diagram that shows the major components of the overall system, subsystem interconnections, and external interfaces should be included here.>

## 2.2 Product Functions

<List the major functions the product must perform or must let the user perform. Details will be provided in Section 4, so only a high level summary (such as a bullet list) is needed here.

Include a top level data flow diagram.>

# 3. External Interface Requirements

<Describe each interface identified in product scope/context diagram (from Section 1.2) and major components diagram (from Section 2.1). Note: interface can be a user interface (eg. GUI screen), a hardware interface (eg. to sensor, RFID reader, scanner, printer etc), a software interface (eg. API to separate inventory program which your software should pull information from), or a communications interface (eg. HTTP, I2C, FTP, Texas 1-wire, etc...>

# 4. Specific Requirements

<Specific Requirements should be listed in this section. Requirements may be grouped by: system feature, use case, mode of operation, user class, object class, functional hierarchy, or combinations of these, whatever makes the most logical sense for your product.>

Example follows (this particular example organizes by system feature):

Priority Flags (in this example): Necessary - High Priority, Highly Desirable, Desirable, Optional - Low Priority

4.1 Task Management  
4.1.1 Feature Description  
This feature allows the TR to view tasks assigned by the CSC and check off completion of task. CSC can view logged information on checked off tasks.

4.1.2 Stimulus/Response Sequences  
CSC creates a task, assigns it to a TR with date of expected completion  
TR receives task notification  
System checks off task completion when TR sends a report  
  
4.1.3 Functional Requirements

|  |  |  |
| --- | --- | --- |
| Label | Requirement | Priority |
| REQ1-1 | The system will allow a task to be created by the CSC only. | Necessary |
| REQ1-1.1 | A task has text up to 256 characters, an assigned TR and an expected date of completion. | Necessary |
| REQ1-1.2 | An assigned TR can be selected from a list of available TR. | Highly Desirable |
| REQ1-2 | The system will allow a CSC to see a list incomplete tasks ordered by due date - with the longest outstanding task at the top. | Highly Desirable |
| REQ1-2.1 | The system will allow the CSC to change the ordering for tasks by due date such that the last input task is at the top. | Desirable |
| REQ1-3 | The system will allow an Administrator to add and remove TR entries to a list of available TRs. A TR entry consists of a name and an email. | Highly Desirable |
| REQ1-4 | The system will send a (push) notification to an assigned TR. The notification will consist of a label “New Task:” followed by the first 80 characters of the task’s text. | Highly Desirable |
| REQ1-4.1 | Push notification should be sent within 5 minutes of CSC creating task | Desirable |
| REQ1-5 | The system will create a report template to be filled when a specific task is selected. The report will contain the date that the report is made, the specific farmer that the TR is visiting, the crop(s) that the farmer has planted, the date that the crop was planted, products used on crop and the date, an optional note with issues that the farmer is having and a note for recommendations given. | Necessary |
| REQ1-5.1 | If a report has already been created, selecting the task views the existing report | Necessary |
| REQ1-6 | The system will mark a task as completed when the TR fills out a report of a visit (to a farmer or a shop). | Necessary |
| REQ1-7 | The system will allow a TR to view a list of their assigned tasks which have not been marked as completed ordered by due date - earliest due date first. | Highly Desirable |
| REQ1-8 | The system will store all created tasks in a shared data repository. | Highly Desirable |

4.2 Report Management  
4.2.1 Feature Description  
  
<Here’s a description>  
  
4.2.2 Stimulus/Response Sequences  
  
TR fills out report, sends to CSC  
CSC receives push notification when a report is sent  
  
4.2.3 Functional Requirements

|  |  |  |
| --- | --- | --- |
| Label | Requirement | Priority |
| REQ2-1 | The system will store the report information in a shared data repository. | Necessary |
| REQ2-2 | The system will store associated information with the report - the user that made the report and the date that the report was created - in the shared data repository. | Necessary |
| REQ2-3 | The system will send a push notification to the CSC when a report is saved consisting of a label “New Report from”, plus the name of the TR making the report. | Desirable |
| REQ2-4 | The system will store the report information locally on the mobile device of the TR if there is no online connectivity. | Highly Desirable |
| REQ2-5 | The system will allow a CSC to view a list of all reports ordered by most recent report first. | Necessary |

4.3 Contact Management

4.3.1 Feature Description  
  
System will be able to manage a shared list of contacts.   
  
4.3.2 Stimulus/Response Sequences  
  
User creates/edits a contact, contact added to/modified in master list of contacts  
User views master list of contacts, clicks on a single contact, brings up detailed information  
  
4.3.3 Functional Requirements

|  |  |  |
| --- | --- | --- |
| Label | Requirement | Priority |
| REQ3-1 | The system will allow users to create a contact. The contact information for a specific farmer contains: the farmer name, the farmer address, contact number, email, acreage, crops grown, affiliations (groups that the contact is a member of, etc) and an optional note. When a contact is created it is added to the master contact list. | Necessary |
| REQ3-2 | The system will allow users to view the master contact list. The master contact list has each contact name | Necessary |
| REQ3-2.1 | ordered alphabetically, ascending. | Desirable |
| REQ3-3 | The master contact list is stored in a shared data repository. | Necessary |
| REQ3-4 | The user should be able to filter the master contact list by: |  |
| REQ3-4.1 | location | Optional |
| REQ3-4.2 | whether it is a shop or a farmer. | Desirable |

4.4 Other non-functional requirements (not captured with specific features)

|  |  |  |
| --- | --- | --- |
| Label | Requirement | Priority |
| REQ4-1 | The system will be able to operate on the following three smartphone OS: Android (<specific build>), iOS (<specific build>), Windows (<specific build>) | Desirable |
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