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**CECS 4204-80 Software Engineering**

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**Software Requirements Specification**

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For:

[xxx]

Prepared By:

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**REVISION HISTORY**

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# 1. Introduction

## 1.1 Purpose

[xxx]

This document is intended for the following audience:

* [xxx]
* [xxx]

## 1.2 Scope

[xxx]

## 1.3 Definitions, Acronyms, and Abbreviations

The following table illustrates the series of definitions, acronyms and abbreviations that are necessary to be aware of for proper understanding of this document:

|  |  |
| --- | --- |
| **Term** | **Definitions** |
| [xxx] | [xxx] |
|  |  |
|  |  |
|  |  |
| **Term** | **Definitions** |
| [xxx] | [xxx] |
|  |  |
|  |  |
|  |  |

Table 1: Definitions

### 1.3.1 Acronyms

The following table illustrates the series of acronyms that are necessary to be aware of for proper understanding of this document:

|  |  |  |
| --- | --- | --- |
| Acronym | Term | Definition |
| [xxx] | [xxx] | [xxx] |
|  |  |  |

Table 2: Acronyms

### 1.3.2 Abbreviations

The following table illustrates the series of abbreviations that are necessary to be aware of for proper understanding of this document:

| **Abbreviation** | **Term** |
| --- | --- |
| [xxx] | [xxx] |
|  |  |
|  |  |
|  |  |
|  |  |

Table 3: Abbreviations

## 1.4 Reference

This section represents the reference used for this document. The following references are cited using the IEEE format:

[1] [xxx]

[2] [xxx]

## 1.5 Overview

[xxx]

# 2. Overall Description

In this section of the SRS document, the general factors that affect the requirements of the system will be given. It is intended for the user’s audience to give them a better understanding of what is going to be built in the proposed system, how the proposed system will work in context of the software, hardware, and communication, as well as the number of functions that compose it.

## 2.1 Product Perspective

[xxx]

[xxx]

Table 4: Feature Comparison between different similar apps

[xxx]

### 2.1.1 System Interfaces

The following diagram represents the communication between the system interfaces.

[xxx]

Figure 1: System Interfaces

### 2.1.2 User Interfaces

[xxx]

[xxx]

Figure 2: [xxx].

### 2.1.3 Hardware Interfaces

[xxx]

### 2.1.4 Software Interfaces

[xxx]

### 2.1.5 Communication Interfaces

[xxx]

### 2.1.6 Memory Constraints

[xxx]

| **Memory Constraints of the Application** | | |
| --- | --- | --- |
| Memory Type | Should be (At Least) | Must be (At most) |
| [xxx] | [xxx] | [xxx] |
|  |  |  |

Table 5: Memory Constraints

### 2.1.7 Operations

In case of any anomaly, the app will operate as follows:

1. [xxx].

### 2.1.8 Site Adaptations Requirements

[xxx]

## 2.2 Product Functions

This section specifies how the app website will function.

[xxx]

Figure 18: Product Function

* + [xxx]

## 2.3 User Characteristics

[xxx]

## 2.4 Constraints

[xxx]

| **Computers** | |
| --- | --- |
| **Operating System (OS)** | **Overall Specs** |
| * [xxx] | * [xxx] |

Table 6: Minimum Requirements to use the application

## 2.5 Assumptions and Dependencies

[xxx]

|  |  |
| --- | --- |
| **Assumptions** | **Dependencies** |
| * [xxx] | [xxx] |

Table 7: Assumptions and Dependencies

# 3. Specific Requirements

In this section of the SRS document, we will be describing the specific requirements this system will have or need to function in an optimal matter with its different interfaces. We will also describe any attributes or constraints that the system will be utilizing.

# 3.1 External Interface

The following table will illustrate various external interfaces of the program.

| **External Interface Table** | | | |
| --- | --- | --- | --- |
| **Name** | [xxx] | [xxx] | [xxx] |
| **Description** |  |  |  |
| **I/O** |  |  |  |
| **Valid Range, Accuracy and Tolerance** |  |  |  |
| **Units of Measure** |  |  |  |
| **Timing** |  |  |  |
| **Relationship with other inputs** |  |  |  |

Table 8: External Interface Table

### 3.1.1 User Interface Requirements

Describe the user interfaces that are to be implemented. Below are the tables of the interface specifications subdivided by each interface.

| [xxx] **Home Page** | |
| --- | --- |
| **Username** |  |
| **Password** |  |
| **Login** |  |
| **Register** |  |
| **Forgot your Password?** |  |
| **News** |  |
| **Guide** |  |
| **Information** |  |
| **Contact Information** |  |

Table 9: [xxx] Home Page

| [xxx] **Registration Page** | |
| --- | --- |
| **Go Back** |  |
| **First & Last Name** |  |
| **Date of Birth** |  |
| **Gender** |  |
| **Select Town** |  |
| **Select Condition** |  |
| **Weight & Height** |  |
| **Email** |  |
| **Username** |  |
| **Password & Confirm Password** |  |

Table 10: [xxx] Registration Page

| [xxx] **User Page** | |
| --- | --- |
| **Menu** |  |
| **Update Item** |  |
| **Guide** |  |
| **News** |  |

Table 12: [xxx] News

### 3.1.2 Hardware Interface Requirements

This section defines any hardware interfaces that are to be supported by the Hardware, including logical structure, physical addresses, expected behavior, etc.

| [xxx]  **Specification** | |
| --- | --- |
| **Name of item** |  |
| **Description of purpose** |  |
| **Source of input or destination of output** |  |
| **Valid range, accuracy, and/or tolerance** |  |
| **Units of measure** |  |
| **Timing** |  |
| **Relationships to other inputs/outputs** |  |
| **Screen formats/organization** |  |
| **Windows format/organization** |  |
| **Data Formats** |  |
| **Command formats** |  |
| **End messages** |  |

Table 17: [xxx] Specification

| [xxx] **Specification** | |
| --- | --- |
| **Name of item** |  |
| **Description of purpose** |  |
| **Source of input or destination of output** |  |
| **Valid range, accuracy, and/or tolerance** |  |
| **Units of measure** |  |
| **Timing** |  |
| **Relationships to other inputs/outputs** |  |
| **Screen formats/organization** |  |
| **Windows format/organization** |  |
| **Data Formats** |  |
| **Command formats** |  |
| **End messages** |  |

Table 18: [xxx] Specification

### 3.1.3 Software Interface Requirements

This section defines any software interfaces that are to be supported by the software, including logical structure, physical addresses, expected behavior, etc.

| [xxx] **Specification** | |
| --- | --- |
| **Name of item** |  |
| **Description of purpose** |  |
| **Source of input or destination of output** |  |
| **Valid range, accuracy, and/or tolerance** |  |
| **Units of measure** |  |
| **Timing** |  |
| **Relationships to other inputs/outputs** |  |
| **Screen formats/organization** |  |
| **Windows format/organization** |  |
| **Data Formats** |  |
| **Command formats** |  |
| **End messages** |  |

Table 19: [xxx] Specification

|  |  |
| --- | --- |
| [xxx] **Specification** | |
| **Name of item** |  |
| **Description of purpose** |  |
| **Source of input or destination of output** |  |
| **Valid range, accuracy, and/or tolerance** |  |
| **Units of measure** |  |
| **Timing** |  |
| **Relationships to other inputs/outputs** |  |
| **Screen formats/organization** |  |
| **Windows format/organization** |  |
| **Data Formats** |  |
| **Command formats** |  |
| **End messages** |  |

Table 20: [xxx] Specification

### 3.1.4 Communication Interface Requirements

Describe any communications interfaces to other systems or devices such as local area networks, remote serial devices, etc.

| [xxx] **Specifications** | |
| --- | --- |
| **Name of item** |  |
| **Description of purpose** |  |
| **Source of input or destination of output** |  |
| **Valid range, accuracy, and/or tolerance** |  |
| **Units of measure** |  |
| **Timing** |  |
| **Relationships to other inputs/outputs** |  |
| **Screen formats/organization** |  |
| **Windows format/organization** |  |
| **Data Formats** |  |
| **Command formats** |  |
| **End messages** |  |

Table 21: [xxx] Specification

| [xxx] **Specifications** | |
| --- | --- |
| **Name of item** |  |
| **Description of purpose** |  |
| **Source of input or destination of output** |  |
| **Valid range, accuracy, and/or tolerance** |  |
| **Units of measure** |  |
| **Timing** |  |
| **Relationships to other inputs/outputs** |  |
| **Screen formats/organization** |  |
| **Windows format/organization** |  |
| **Data Formats** |  |
| **Command formats** |  |
| **End messages** |  |

Table 22: [xxx] Specification

|  |  |
| --- | --- |
| [xxx] **Specification** | |
| **Name of item** |  |
| **Description of purpose** |  |
| **Source of input or destination of output** |  |
| **Valid range, accuracy, and/or tolerance** |  |
| **Units of measure** |  |
| **Timing** |  |
| **Relationships to other inputs/outputs** |  |
| **Screen formats/organization** |  |
| **Windows format/organization** |  |
| **Data Formats** |  |
| **Command formats** |  |
| **End messages** |  |

Table 23: [xxx] Specification

| [xxx] **Specification** | |
| --- | --- |
| **Name of item** |  |
| **Description of purpose** |  |
| **Source of input or destination of output** |  |
| **Valid range, accuracy, and/or tolerance** |  |
| **Units of measure** |  |
| **Timing** |  |
| **Relationships to other inputs/outputs** |  |
| **Screen formats/organization** |  |
| **Windows format/organization** |  |
| **Data Formats** |  |
| **Command formats** |  |
| **End messages** |  |

Table 24: [xxx] Specification

### 3.2 Functions

This section will provide the details of the diagrams made in section 2.2 Production Functions. It will specify in each function the primary actors and secondary actors and what is the function made by doing so.

|  |  |  |
| --- | --- | --- |
| Function Name | Primary Actor | Secondary Actor |
| [xxx] | * [xxx] | [xxx] |
|  |  |  |

Table 25: Functions

# 3.3 Performance Requirements

[xxx]

# 3.4 Logical Database Requirements

[xxx]

[xxx]

Figure 19: Database Tables

* + **Types of Information used by various functions**

[xxx]

| [xxx] Table | |
| --- | --- |
| **Attribute** | **Type** |
| [xxx] | [xxx] |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Table 26: Users Entity and Types of Attributes

|  |  |
| --- | --- |
| [xxx] Table | |
| **Attribute** | **Type** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Table *27:* [xxx] *Entity and Type of Attributes*

* + **Frequency of Use**

[xxx]

# 3.5 Design Constraints

[xxx]

# 3.6 Software System Attributes

This section specifies the attributes of the software that can serve as requirements.

### 3.6.1 Reliability

[xxx]

### 3.6.2 Availability

[xxx]

### Security

[xxx]

### 3.6.4 Maintainability

### [xxx]

### 3.6.5 Portability

[xxx]