Software Functional Requirements Document

for Replace with Your Product

Replace with Your CLC Group Members

Grand Canyon University: CST-326

Replace with Due Date

(Make sure all yellow is removed before submission.)

Document Version <X.X>

<date>

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# Introduction

< Identify and describe the business need(s) or problem(s) this document will address. Include background information here.>

## Purpose of the Document

< Describe what a functional specification document is and its intended purpose for the audience. Included below is a standard purpose of the FSD, but modify the description as needed.>

The functional specification document is a document that provides detailed information on *how* the system solution will function and the requested behavior. This document is created based on the high-level requirements identified in the user stories and provides traceability of the functional specifications back to the product backlog. Included in this document will be the detailed functional requirements including use cases, system inputs and outputs, process flows, diagrams, and mockups.

## Project Scope

<Describe the project scope, which addresses the business need(s) or problem(s). Include high-level information of the solution.>

## Related Documents

*<*Add any documentation that is relevant and related to the FSD. Some examples are the project charter, user stories, etc.>

## Terms/Acronyms and Definitions

<State any terms and their definitions that are employed in the functional specifications. Also include any acronyms that are mentioned in the document.>

|  |  |  |
| --- | --- | --- |
| **Term/Acronym** | **Definition** | **Description** |
| FSD | Functional Spec Document |  |

## Risks and Assumptions

<List any assumed factors and identified risks that could affect the functional design of the system. Included can be third party or commercial components that will be used, issues around the operating environment, or any constraints.>

# System/Solutions Overview

<Provide a short description of the software and solution being specified and its purpose, including relevant benefits, objectives, and goals.>

## Context Diagram/Interface Diagram/Data Flow Diagram, Application Screen Flow, Sitemap, Process Flow

<Provide any appropriate graphical representations that are relevant to the system and project, such as a context/interface/data flow diagram, application screen flow, sitemap, or process flow. Add as many as needed.>

# Functional Specifications

<Start describing the specifications related to the overall system here. You may want to create a table/index of all functionalities explained in the sections below and link them to the items below.>

## Architecture

<Discuss your project's architecture and include relevant figures. This example is of an application with multiple pieces of software. If your application is a web application, this diagram will look different and have different components. Use discussion and as many figures as you need to address the high-level architecture of your project. Don't forget to use cross-references for figures.>

*Figure 1 shows an example system diagram for a fictious self-check station.*

Figure 1: Example system diagram for a fictious self-check station.

## Purpose/Description

<Include a high-level description and the purpose of the specifications covered in this section.>

## Sitemap

<Provide the sitemap for the website.>

## Wireframes

<Provide the wireframes for the website.>

## Functional Requirements

<All functional requirements are detailed here.

Make sure each specification has a reference number that can be traceable back to the user story or use case.

These must be detailed enough so the software developer can design the website.>

| **Use**  **Case ID** | **ID** | **Functional Requirement** |
| --- | --- | --- |
|  | FR-1 | The Attendant Device software shall….. (This is for a template format. You will have many requirements in this document. Some sections may have more requirements than others.) |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
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## Field-Level Specifications

<Specify all the field data elements related to the functional requirements.>

**Form Elements:**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Call-Out** | **Field Label** | **UI Control** | **Mand?** | **Editable** | **Data Type** | **Value Set** | **Default Value** | **Data Example** | **Data Source** |
| *<mock-up reference>* | *<Label name>* | *<specify what UI control will be on screen>* | *<specify if field is mandatory>* | *<specify if field is editable>* | *<Specify the data type that will be used for this field>* | *<If value is from the set, specify the entire value set here>* | *<Specify if it should be defaulted to any value>* | *<Provide an example of the data>* | *<Specify the source of the data>* |
| Example:  Call-out 1 | User name | textbox | Yes | Yes | Alpha-numeric | none | NA | agujar | User entry |

**Form Business Rules and Dependencies:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Label** | **Validation / Business Rules** | **Error Messages** | **Data Dependencies** | **Additional Info/ Notes** |
| *<Label name>* | *<Specify the validation rules and/ or business rules applicable to the form element>* | *<List the error message that should be displayed and under what conditions>* | *<Specify if there are any date dependencies>* | *<Provide any additional information here>* |
| *Example: User name* | *User name shall be a valid Stanford Sunet ID* | *For incorrect user name display on setFocusOff: “Please provide a valid user name”* | *None* | *Access prohibited only to Stanford affiliates. For non-Stanford affiliates, check call-out 3.1* |

**Buttons, Links, and Icons:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Button, Link, Icon Label** | **OnClick Event** | **Other Event** | **Visible** | **Enabled Vs Disabled** | **Navigate To** | **Validation** | **Dependencies** |
| *<Button label name>* | *<Specify the operation that would be performed on an on-click event>* | *<Specify the operation that would be performed on other events>* | *<Specify default visibility of the button>* | *<Specify if button is enabled or disabled and the condition, if any>* | *<Specify the link where the page will be re-directed, if any>* | *<Specify the validation rules on operation of the button>* | *<Mention if there are any dependencies on other form elements and/ or buttons>* |
| *Example: Submit* | *Verify if user name and password are correct. If yes, log the user into the system.* | *OnMouseHover display the following message: “Please provide your web-authentication details to sign in>* | *Yes, always* | *Disabled, by default.*  *Enabled, after first key entered in either username or password field.* | *User Dashboard page* | *Verify if Username is a valid sunet ID and user name and password match with registry data.* | *Disable the New user functionality on subsequent pages if user logs in through this button.* |

## Nonfunctional Requirements

<All nonfunctional requirements are detailed here.

Make sure each specification has a reference number that can be traceable back to the user story or use case.

These must be detailed enough so the software developer can design the website.>

| **ID** | **Nonfunctional Requirement** |
| --- | --- |
| NFR-1 |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# References

<List all references to external material used as background information or knowledge for the FSD.>

# Open Issues

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Issue ID** | **Issue** | **Raised By** | **Raised On** | **Solution/ Decision** | **Resolved By** | **Resolved On** | **Status** |
|  |  |  |  |  |  |  |  |

# Appendix