**Software Requirement Specifications**

**<Project Title>**



**Submitted by**

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**Submitted to**

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**Summery**

Here the author will write summery of the document. They can provide a brief of the background, their findings and requirements.

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1. **Introduction**

If project is developing for a specific organization (e.g. Hospital Management System for XYZ Hospital) then provide a detail introduction of organization for example services provided by organization, number of employees, number of annual customers served. Authors should also provide information about the specific module which is going to be develop. This information will be provided under the start of Introduction without heading.

* 1. **Purpose**

Clearly define the goals and objectives of Project

* 1. **Scope**

Authors must define the boundaries of project and define the item that may be develop and also mentioned that which items will not develop.

* 1. **Product Perspective**

Define that how your developed module will be fit in the system

* 1. **User Characteristics**

Users such as admins, data entry operators, customers or other human roles that interact with system.

* 1. **Similar apps and systems/Literature Review**

In this section you can provide the other apps system and already work done. You can put the details of similar apps, their features and short comings

* 1. **Proposed Technologies**

Author will provide the list of technologies which be use to develop this system for example if it is a web-based system then web associated technologies can be mention (React, Django, MySQL etc.)

1. **Requirements**

Authors have to provide a brief of functions of the project. For example, if a Hospital Management System is going to develop and Patient and Doctor module is going to implement then patient admission, appointment system and billing can be described here. Authors will write these items in the form of paragraph without providing some title.

* 1. **Function Requirements**

Authors will provide definite number of functional requirements in standard format. These requirements directly in the with functions which are already provided. The requirement format as following.

* + 1. **Sign Up**
* **Name:** FR001
* **Purpose:** Sign up process is required for a user to become the member of system.
* **User(s):** Admin, Data Entry Operator, Doctor
* **Input:** 
  + *Name:* Actual name of user according to ID card.
  + *Password:* Must be 8 characters long and must include number
  + *Address:* Actual residence address which is accessible by post and other staff.
  + *Phone:* Working phone number. Must be on WhatsApp
  + *Display Picture:* Latest face picture
  + *Approval from Super User:* Superuser will be verify the information and approved the status of user a member of system.
* **Output:** User will be the member of system and able to login

Other requirements will be provided in similar way.

* 1. **Non-Functional Requirements**

Describe non-function requirements here. Normally, non-functional requirements are considering as general obligations but sometimes these requirements are also should be discuss in details

1. **Use Cases and Flow of Processes**

Use cases are the formal representation of process flow defined by functional requirements. Authors should provide a flow of events in this. There should be system level use case which is directly influenced to project functions with their user(s) (called actor(s)) which are described in requirements chapters



Figure 1: System Level Use Case Diagram

* 1. **Use Case 1**

|  |  |
| --- | --- |
| **ID** | UC001 |
| **Name** | Sign Up |
| **Description** | This use case describes the process flow of Sing Up |
| **Requirement(s)** | FR001 |
| **Actor(s)** | Admin, Data Entry, Operator |
| **Precondition** | Actors must not be member of Hospital |
| **Postcondition** | Actors will view the message for approval from admin |
| **Basic Flow** | ***Basic Flow***   1. Actor enter credentials 2. System validates the inputs    1. Following fields are required       1. Name       2. Email       3. Password       4. Address       5. Phone    2. Check the proper inputs for following       1. Email       2. Password must be 8 character including number       3. Phone Number on 11 digits    3. On successful validation the system will create new user   ***Alternative Flow***   1. Admin Sign In 2. Create a new User by entering data   ***Exceptions***   1. Invalid Inputs 2. System unable to response |

**Diagrams**

Author should provide the Activity diagram of each Use case. If required then sequency diagrams also add to this section.

1. **References**

Author should provide references in IEEE format