**TEST PLAN**

Project Name: Hospital Management Application

Test Engineer: Ajja Neeraj Kumar

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Prepared by: XXXXXXXXXX

Reviewed by: XXXXXXXXXXX

**1. INTRODUCTION**

This project provides an environment to maintain details of patients in a hospital. The main purpose of the project is to provide easy use of the system to manage the details of the patients. The Test Plan has been created to facilitate communication within the team members. This document describes approaches and methodologies that will be used in the lifecycle of testing.

**2. SCOPE**

* **FEATURES TO BE TESTED**

The scope of this project will cover the following modules:

This project consists of admin interface only.

* Add patient
* Display all patients
* Get patient details by id
* Delete patient
* Update patient details
* Exit the application
* **FEATURES NOT TO BE TESTED**

The features will not be tested as they fall out of scope for testing.

* User Interfaces
* Hardware Interfaces
* Software Interfaces

**3) QUALITY OBJECTIVES**

* **PRIMARY OBJECTIVE**

         A primary objective of testing is to ensure that the system meets the requirements mentioned. At the end of the project development cycle, the user should find that the project has met all of their expectations.

* **SECONDARY OBJECTIVE**

The secondary objectives of testing will be to identify and expose all issues and defects and fix them before the release of the project.

**4) Test Strategy:**

Test strategy communicates the approach used by the testing team.

a) Levels of testing

* System Testing
* User acceptance testing
* Unit Testing

b) Types of testing

* Black box testing
* White box Testing
* Functional Testing

c) Test Design Technique – ECP and BVA

**5) Exit and Entry Criteria:**

**ENTRY CRITERIA**

* All the previous test phases are completed and signed off.
* QA resources have completely understood the requirements.

**EXIT CRITERIA**

* Completion of a test phase.
* Cost – when the budget has been spent.
* The schedule has been achieved.

**6) Test Environment:**

* Operating System: Windows 10
* Eclipse IDE
* Database - My SQL

**7) Test Scenarios:**

* Add patient

1. To Verify If a new patient is added successfully or not.
2. To Verify if the patient details are stored correctly in the system.

* Display all patients

1. To Verify whether the user is able to see all patients details.
2. To Verify that if all patient details shown are correct or not.

* Get patient details by id

1. To Verify whether the user is able to get patient based on id.
2. To Verify if the details shown are correct or not.

* Delete patient

1. To Verify that whether the user is able to delete patient.
2. To Verify that patient details in the database is deleted or not.

* Update patient details

1. To Verify whether the user is able to update patient details.
2. To Verify that the patient details are updated or not.

* Exit the application

1. To check whether the user is able to exit the application or not.

**8) Test Data**

* Providing the valid data and Invalid data of patient as the Inputs.

**9) Expected Results**

* All scenarios should be executed successfully.
* All data should be stored securely.
* The application should exit safely and no errors should occur.

**10) Test Schedule:**

The testing will take place over a period of one week or more, with a minimum of 2 hours per day for testing and reporting.

**11) DataBase:**

To make sure the data is correctly and securely saved and retrieved.

**12) Security:**

To ensure that user’s data is safe and secure.

**13) Test Deliverables:**

* Test Case Document
* Test Design Document
* Test Scripts

**14) Risk and Mitigation:**

* Meet outstanding prerequisites
* Redefine test data
* Review test plan and modify the components (i.e. scripts)
* Restore data and restart

**15) Conclusion:**

This test plan outlines the testing approach for the Hospital Management Application. Theapplication is tested to ensure that it meets the required functional and non-functional requirements. The test plan will be used as a guide to ensure that all the important functions of the application are tested and the results are reported.