***TEST SPECIFICATION***

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| --- | --- |
| **Pharmacy Management System** | TEST PLAN |

**Team Members: -**

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| --- | --- | --- | --- |
| **Product Name** | Pharmacy Management System | **Test Plan Version** | 1.0 |
| **Product Version** | 1.0 | **Test Plan Template Version** | 1.0 |

Revision History

|  |  |
| --- | --- |
| Author | Date |
| Rajasekhar Gali | 31-10-2022 |

Test Plan Review/Approval

|  |  |  |
| --- | --- | --- |
| Peer Review | signature | Date |
| RAMA KOTESWARA RAO | Ramakoteswara rao | 10/31/2022 |
| VEERA VENKATA JAGANNADHAM GANTA | Jagan | 10/30/2022 |
| SAI THEJAS CHILLAGATU RAMESH | Sai Thejas | 10/28/2022 |

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12. **Overview**

As part of the project, the “Pharmacy Management System” project team prepare a few test functionalities of the “Pharmacy Management System” web application.

This document serves as a high-level test planning document with details on the scope of the project, test strategy, test schedule, resource requirements, test deliverables, and schedule.

1. **Scope**

The scope of the project includes testing the following features of the ‘Pharmacy Management System’ web application.

* 1. **­­­­Inclusion**

Login & Logout

Home Page

Sales

Delete

Add stock

Add New medicine

Add New Supplier

Medicine Records

Supplier Records

Customer Records

Billings Records

From our understanding, we believe the above functional areas need to be Tested.

* 1. **Test Tools & Environments**

**OS:** windows10

**Browsers:** Chrome, Microsoft Edge

**Server:** Xampp

**Ms offices family**

* 1. **Exclusion**

All the features except that are mentioned under ‘Inclusions’

1. **Test Strategy**

‘PMS Team’ has communicated with ‘each other and has understood that we need to perform Functional Testing of all the functionalities mentioned in the above Scope section. As part of Functional Testing, we will follow the below approach for Testing:

**Step#1** – Creation of Test Scenarios and Test Cases for the different features in scope.

• We will apply several Test Designing techniques while creating Test Cases

o Equivalence Class Partition

o Boundary Value Analysis

o Decision Table Testing

o State Transition Testing

o Use Case Testing

• We also use our expertise in creating Test Cases by applying the below:

o Error Guessing

o Exploratory Testing

• We prioritise the Test Cases

**Step#2** – Our Testing process, when we get an Application for Testing:

• Firstly, we will perform Smoke Testing to check whether the different and important functionalities of the application are working.

• We reject the build, if the Smoke Testing fails and will wait for the stable build before performing in depth testing of the application functionalities.

• Once we receive a stable build, which passes Smoke Testing, we perform in depth testing using the Test Cases created.

• Multiple Test Resources will be testing the same Application on Multiple Supported Environments simultaneously.

• We then report the bugs in bug tracking tool and send dev. management the defect found on that day in a status end-of-the-day email.

• As part of the Testing, we will perform the below types of Testing:

o Smoke Testing and Sanity Testing

o Regression Testing and Retesting

o Usability Testing, Functionality & UI Testing

• We repeat Test Cycles until we get a quality product.

**Step#3** – We will follow the below best practices to make our Testing better:

• Context-Driven Testing – We will be performing Testing as per the context of the given application.

• Shift Left Testing – We will start testing from the beginning stages of the development itself, instead of waiting for the stable build.

• Exploratory Testing – Using our expertise we will perform Exploratory Testing, apart from the normal execution of the Test cases.

• End-to-End Flow Testing – We will test the end-to-end scenario which involves multiple functionalities to simulate the end user flows.

1. **Responsibilities**

|  |  |
| --- | --- |
| **Name** | **Responsibilities** |
| Rajasekhar Gali | Create Test scenarios |
| Rajasekhar Gali | Create Test scenarios |
| Rajasekhar Gali | Create Test cases |
| Rajasekhar Gali | Create Test cases |

1. **Test Schedules**

|  |  |
| --- | --- |
| **Task** | **Time Durations** |
| Creating Test Plan | **10/24/2022** |
| Test Scenarios Creation | **10/24/2022** |
| Test Scenarios Creation | **10/26/2022** |
| Summary Reports Submission | **10/31/2022** |

1. **Test Deliverables**

The following are to be delivered to the Professor:

|  |  |  |
| --- | --- | --- |
| Deliverables | Description | Target Completion Date |
| Test Plan | Details on the scope of the Project, test strategy, test schedule, resource requirements, test deliverables, and schedule | 10/31/2022 |
| Functional Test Cases | Test Cases created for the scope defined | 10/31/2022 |
| Summary Reports | Summary Reports-Test Scenarios, test cases | 10/31/2022 |

1. **Entry and Exit Criteria**

The below are the entry and exit criteria for every phase of Software Testing Life Cycle:

**Requirement Analysis**

**Entry Criteria**:

• Once the testing team receives the Requirements Documents or details about the Project

**Exit Criteria**:

• List of Requirements are explored and understood by the Testing team

• Doubts are cleared

**Test Planning**

**Entry Criteria**:

• Testable Requirements derived from the given Requirements Documents or Project details

• Doubts are cleared

**Exit Criteria:**

• Test Plan document (includes Test Strategy) is signed off by the peer members

**Test Designing**

**Entry Criteria:**

• Test Plan Document is signed off by the peer members

**Exit Criteria:**

• Test Scenarios and Test Cases Documents are signed off by the peer members

**Test Execution**

**Entry Criteria:**

• Test Scenarios and Test Cases Documents are signed off by the peer members

• Application is ready for Testing

**Exit Criteria:**

• Test Case Reports are ready

**Test Closure**

**Entry Criteria:**

• Test Case Reports are ready

**Exit Criteria:**

• Test Summary Reports

1. **Suspension and Resumption Criteria**

Based on the Team’s decision, we will suspend and resume the Project. We will ramp up and ramp down the resources as per the professor ideas and needs.

1. **Risks and Mitigations**

The following is the list of risks possible and the ways to mitigate them:

|  |  |  |
| --- | --- | --- |
| Sl. No | Risk | Mitigation |
|  | Non-Availability of a Resource | Backup Resource Planning |
|  | The built URL is not working | Resources will work on other tasks |
|  | Less time for Testing | Ramp up the resources based on the Client needs dynamically |

1. **Approvals**

Team will prepare different types of documents for professor Approval like below:

• Test Plan

• Test Scenarios

• Test Cases

• Reports

1. Test Cases Document attached (PMS Test Cases.xlxs)

