**Scope and Overview:**

* Sunil Nagaraj: Reviews the document
* Sunil Nagaraj: Approve the document
* Software Testing activities carried out with timelines

**What to be tested?**

* UI & UX: To test all the modules in the application
* Functional testing
* Application testing

**Objectives**

* To prevent defects
* To make sure that the end result meets the business and user requirements
* To ensure that it satisfies the BRS and SRS
* To gain the confidence of the customers by providing them a quality product

**Test Approach**

**Process of testing**

* Requirement Analysis
* Software Testing Planning
* Test Case Development
* Environment Setup
* Software Test Execution
* STLC Closure

**Test Levels:**

1. Unit Test
2. Integration Test
3. System Test
4. User Acceptance Test

**Roles and responsibilities of each team member:**

**Test Manager**

* + 1. Prepare test strategy
    2. Prepare the test budget
    3. Define test levels and test cycles
    4. Develop strategy for estimating test effort
    5. Develop strategy for test documentation, metrics and reporting
    6. Guides and controls the testing teams

**Test Lead**

* + 1. Create the test documents like traceability matrix, test data and test cases
    2. Set up and verify the test environment
    3. Test the software at different levels and record the results
    4. Identify, report and track the defects
    5. Coordinate with developers to ensure the defect fixing process
    6. Automate the test
    7. Provide test support
    8. Develop the test specification, conduct the test and record the results for the different items of the software
    9. Participate in the review meetings
    10. Assist the users in UAT
    11. Provide the test updates to the test lead
    12. Provide the learning experience during the project and document it

**Test Approach**

Black box testing which is also known as Functional Behavioral or Data Driven, input/ output driven or requirements based testing since the requirements have been made clear and uses functional and non-functional testing.

**Environment Requirements**

| **Hardware Configuration** | | |
| --- | --- | --- |
| **Systems** | | **Specification** |
| OS | | Windows 10 |
| Processor | | 1GHz, Intel i5 and Intel i7 |
| RAM | | 4GB, 8GBk, 16GB |
| Hard Disc | | 1TB |
| **Software Configuration:** | | | |
| **Web Server** | **Name** | | |
| Browser | Chrome, Mozilla Fire Fox, Safari, Internet Explorer | | |

**Testing tools**

| **Tools used** | | |
| --- | --- | --- |
| **Tool Name** | **About Tool** | **Purpose** |
| Jira | Issue Tracker | Issue logger, feature Details, Project tracker |
| Zephyr | Test Management | Used to log the test steps, test cases and test scenario |
| Bugasura | Defect Tracker | Defect logger |
| XMinds | Mind Maps | Build Mind Maps |
| Browser Stack | Remote browser and mobile access for testing | To test web and mobile applications across on demand browser, operating systems and real mobile devices |
| Slack | Messenger | Communication with the testing team. |
| GitHub | Source code management tool | A code hosting platform for version control and collaboration |
| Postman | Rest Testing Tool | To test backend REST services |
| Selenium | API for web app testing | Web app automation |

**Test Coverage**

| **Platform** | **Devices** |
| --- | --- |
| Desktop Web | Chrome |
|  |  |

**Release Controls**

Release management plan with appropriate version history that will make sure test execution for all modifications in that release

**Risk Analysis**

Any show-stopper bug, including bugs in code and problems with the testing environment may delay the completion of the testing, and may result in delay of the application deployment to the production system.

**Review and Approvals**

* All these activities are reviewed and signed off by the business team, project management, development team, etc
* Summary of review changes should be traced at the beginning of the document along with approved date, name, and comment
* The document is reviewed by - Sunil Nagaraj
* The document is approved by - Sunil Nagaraj
* Testing activities carried out with timelines by - Shesha, Shreya, Poojarani, Shivani, Liesl