**Test Plan**

**OrangeHRM**

Contents

[**Objective** 3](#_Toc134640291)

[**Scope** 3](#_Toc134640292)

[**Test Environment** 3](#_Toc134640293)

[**Test Strategy** 3](#_Toc134640294)

[Scope of Testing: 3](#_Toc134640295)

[Out of Scope: 4](#_Toc134640296)

[Types of Testing 4](#_Toc134640297)

[Functional Testing 4](#_Toc134640298)

[Non-Functional Testing 4](#_Toc134640299)

[Process of Testing 4](#_Toc134640300)

[**Test Schedule** 5](#_Toc134640301)

[**Test Deliverables** 5](#_Toc134640302)

[Entry and Exit Criteria 5](#_Toc134640303)

[Entry Criteria: 6](#_Toc134640304)

[Exit Criteria: 6](#_Toc134640305)

[**Test Execution** 6](#_Toc134640306)

[Entry Criteria: 6](#_Toc134640307)

[Exit Criteria: 6](#_Toc134640308)

[Test Closure 6](#_Toc134640309)

[Entry Criteria: 6](#_Toc134640310)

[Exit Criteria: 6](#_Toc134640311)

[**Resources** 7](#_Toc134640312)

[System Resource 7](#_Toc134640313)

[Server: Appium Server for Virtual devices 7](#_Toc134640314)

[Computer: Single pc for test development and execution 7](#_Toc134640315)

[Tools: 7](#_Toc134640316)

[Risks and Mitigations 7](#_Toc134640317)

[Release And Approvals 7](#_Toc134640318)

# **Objective**

The objective of this test plan is to ensure that the CRM platform meets all the functional requirements, provides a user-friendly experience, is secure, and performs well under various load conditions.

# **Scope**

The scope of this test plan includes the following areas:

* Login and registration functionality
* Employee creation
* Online resources functionality
* Performance testing of the platform

Out of Scope: database testing, or external interface testing

# **Test Environment**

The following test environment will be used:

|  |  |  |  |
| --- | --- | --- | --- |
| Device Type | Operating Systems | Version | Browsers |
| Laptop | Windows | Windows 10 Pro | Chrome, Edge |
| Smartphone | Android | Android 8(Oreo) | Chrome |

# **Test Strategy**

## Scope of Testing:

* Web UI Testing
* Usability testing
* Load Testing

## Out of Scope:

* Security Testing

## Types of Testing

### Functional Testing

* UI testing will be performed in different browsers and devices.
* Primarily Tests will be automated.
* Manual testing will be limited to Bug tracking or for complex cases.

### Non-Functional Testing

* Only Load testing will be performed on application.
* Testing should be automated.
* First in the local environment, if the system fails to facilitate, tests will be performed on Cloud.

## Process of Testing

Step 1: Creating Test Scenarios and test cases for various features and goals in Scope.

Step 2: Testing Procedure after tests scenarios decided.

* Executing tests based on type. i.e., Smoke, Sanity
* Accepted test outcomes will consider that application as Stable build.
* Further complex tests will be executed.
* In case of failed tests build will be rejected.
* Regression testing will be done on updated/fixed components.

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

* Smoke Testing and Sanity Testing
* Regression Testing
* Functionality & UI Testing
* Load Testing
* Repeat Test Cycles until Application confidence isn’t established.

# **Test Schedule**

Following is the test schedule planned for the project –

Task Time Duration

|  |  |
| --- | --- |
| **Task** | **Estimated Time** |
| ▪ Creating Test Plan | 9 hours |
| ▪ Test Case Creation | 24 hours |
| ▪ Test Case Execution | 4 hours |
| ▪ Summary Reports Submission Date | **23rd February 2023** |

\*Deliverables are specified for both Functional and Non-Functional testing.

# **Test Deliverables**

|  |  |  |
| --- | --- | --- |
| Deliverables | Description | Target Completion Date |
| Test Plan | Details on Scope of Project, Test Strategy, Test Schedule, resource requirements, test deliverables | 9th February |
| Functional Test cases | Test cases for scope defined | 15th February |
| Non-Functional Test cases | Test cases for user/ request loads defined in scope | 15th February |
| Defect Reports | Detailed description of the defects along with screenshots, and steps to reproduce | NA |
| Summary Reports | Reports should include:  Test success metrics, bugs, along with severity and affected areas | 23rd February 2023 |

## 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 Execution**

## Entry Criteria:

• Test Scenarios and Test Cases Documents are signed-off by the Client

• Application is ready for Testing

## Exit Criteria:

• Test Case Reports, Defect Reports are ready

## Test Closure

### Entry Criteria:

• Test Case Reports, Defect Reports are ready

### Exit Criteria:

• Test Summary Reports

# **Resources**

## System Resource

### Server: Appium Server for Virtual devices

### Computer: Single pc for test development and execution

### Tools:

The following are the list of Tools we will be using in this Project:

* Selenium
* JMeter
* Git, Jenkins
* Appium
* MS Word and Excel
* IntelliJ IDE and Android Studio

### Risks and Mitigations

The following are the possible risks and the ways to mitigate them:

|  |  |
| --- | --- |
| Risk | Mitigation |
| System capability fails to perform load tests | Perform Load Tests on Cloud (AWS EC2 instances) |
| Less time for Testing | Focus testing on critical parts, max coverage, and key-business components. |
| Build URL is not working | Resources will work on other tasks |
| Non-Availability of a Resource | Backup Resource Planning |

### Release And Approvals

The software will be deployed after following conditions are met:

* Developed a stable Build.
* Stakeholders are satisfied with the delivery.
* Established desired confidence in components.