**Test Plan V 1.0**

**COGS | Report Management**

**Version History**

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| --- | --- | --- | --- | --- |
| **Date** | **Version** | **Author/QA** | **QA Manager/ Architect** | **Description** |
| 27.10.2018 | 1.0 | Shahbaz Qaiser | Ahmed Bilal / Eliya | System Test Plan |

**Purpose and Objectives**

This document is a Test Plan for the project COGS | Report Management, produced by Quality Assurance. It describes the testing strategy and approach to testing that QA team will use to validate the quality of this product prior to the release. It also contains various resources required for the successful completion of the project testing phase.

This Test Plan supports the following objectives:

* List the deliverable elements of the test activities.
* List the recommended test requirements.
* Recommend and describe the testing strategies to be employed.
* Identify the required resources.

**Cogs Report Management Scope**

**In Scope Items:**

1. HR Report
   1. Leave Report
   2. Bravo Summary Report
2. PMO Report
   1. Project Pulse Report
   2. Employee Skill Set Report
3. Finance Report
   1. Project Bonus
   2. Project Costing

**Out Scope Items:**

1. HR Report
   1. Overtime
   2. Info Directory
   3. Employee By Joining Date
   4. Employee By Confirmation Date
   5. Training Report
   6. Employee Project Assignment Report
   7. Appraisal Cycle Report
   8. Intimation Report
2. PMO Report
   1. Project Report
   2. Backup Resources
   3. Bench Report
   4. Employee Notes Report
   5. Project KPI report

**Testing Approach**

The Test engineer will execute each function/feature, using valid and invalid data, to verify the following:

* The expected results occur when valid data is used.
* The appropriate error / warning messages are displayed when invalid data is used.
* Each business rule is properly applied.

**Testing Technique**

The test plan strategy consists of a series of different tests that will fully exercise. The primary purpose of these tests is to uncover its limitations and measure its full capabilities.

1. Smoke Testing
2. Functional Testing (Manual)
3. System Testing (End To End Testing for Report Management)
4. User Interface/Responsive Testing
5. Database Testing
6. Functional Automation
   1. API Automation
   2. Web Automation
7. Non Functional Testing
   1. Performance Testing
   2. Security Testing

The goals of these tests are to verify proper data acceptance, processing, and retrieval, and the appropriate implementation of the business rules.

**Testing Tools and Technology**

1. Web Automation **Selenium Webdriver, SPOCK Framework using Gradle, Junit**
2. API Automation **Jmeter**
3. Performance Testing **Jmeter, Blazemeter**
4. Security Testing **Acunetix**
5. Browsers **Chrome 70.0.3538.67**
6. Device & Browser **Samsung S6 & Chrome**

**Management Tools**

1. Test Management **TestRail** [**https://zohran.testrail.io/index.php?/dashboard**](https://zohran.testrail.io/index.php?/dashboard)
2. Resource Management **Trello** [**https://trello.com/b/dyffj8Gl/testing-league-tasks**](https://trello.com/b/dyffj8Gl/testing-league-tasks)

**Environment Details**

1. **Web URL** 10.0.0.165:8080
2. **Database** SQL Server
3. **Database Name**  10PPortal

**QA Resources**

1. Shahbaz Qaiser Lead Test Engineer
2. Fahad Ali Sr. Test Engineer
3. Aiman Pervaiz Sr. Test Engineer
4. Abu Zohran Trainee Test Engineer
5. Urooj Naz Trainee Test Engineer

**Suspension and Risk Criteria**

If any defects are found which seriously impact the test progress, the QA team may choose to suspend testing. Criteria that will justify test suspension are:

* Hardware/software (mobile devices) not available at the times indicated in the project schedule.
* Source code contains one or more critical defects, which seriously prevents or limits testing progress.
* Change of requirement during the development phase may cause delay.

**Resumption Criteria**

If testing is suspended, resumption will only occur when the problem(s) that caused the suspension has been resolved. When a critical defect is the cause of the suspension, the “fix” must be verified by the testing team before testing is resumed.

**Reporting**

All issues/feedback will be reported on Trello.