**Test Strategy Document**

Project Name:- Orange HRM

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1.**Overview:-**

* As part of the project, ‘Orange HRM’ We had decided to test few functionalities of ‘Orange HRM’ web application.
* This document serves as high level test Strategy document with details on the scope of the project, test schedule and resource requirements, test deliverables and schedule.

**2.Scope:-**

The scope of the project includes testing the following features of ‘Orange HRM’ web application.

**Features to be Tested:-**

**Administrator Module every Employee accessing:-**

* Listing Employees/Users.
* Adding Employees.
* Configure Leaves.
* Time Sheets.
* Recruitment.
* Performance of Employees.
* Admin,PIM,Leave,Time,Recriutment,performance,Dashboard,Directory and maintenance should be navigators in the home page.
* PIM Section Should have configuration, Employee List, Add Employee, and Reports navigator button.

**ESS Module(Employee self service) as a employee individual accessing :-**

* Leaves(Apply, Entitlements etc…).
* Filing Time Sheets
* My Info-Maintaining Personal details
* Performance Tracking

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

**3.Test Approach:-**

* We 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
  + Equivalence Class Partition
  + Boundary Value Analysis
  + Decision Table Testing
  + State Transition Testing
  + Use Case Testing
* We also use our expertise in creating Test Cases by applying the below:
* Error Guessing
* 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 the ‘JIRA’ bug tracking tool and send you 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:
* Smoke Testing and Sanity Testing
* Regression Testing and Retesting
* Usability Testing, UI Testing and Accessibility Testing
* We repeat Test Cycles until we get the 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.

**Step 4:-** The way to approach to test an Particular application.

**Levels of Testing:**- Integration Testing, System Testing, System Integration Testing. These Testing Done in the Particular application.

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

# **Roles/Responsibilities:-**

|  |  |  |
| --- | --- | --- |
| Name | Role | Responsibilities |
| Sivanesh | Test Manager | * Escalations |
| Indu Rani | Test Lead | * Create the Test Plan and get the client signoffs * Interact with the application, create and execute the test cases * Report defects * Coordinate the test execution. Verify validity of the defects being reported. * Submit daily issue updates and summary defect reports to the client. * Attend any meeting with client. |
| Madhavi Latha | Senior Test Engineer | * Interact with the application * Create and Execute the Test cases. * Report defects |
| Srinath | Test Engineer | * Interact with the application * Execute the Test cases. * Report defects |
| Vamsi | Test Engineer | * Interact with the application * Execute the Test cases. * Report defects |
| Suresh | Test Engineer | * Interact with the application * Execute the Test cases. * Report defects |
| Dipak | Test Engineer | * Interact with the application * Execute the Test cases. * Report defects |

**4.Test Environment:-**

The application to be tested all environment.

**Software Configuration:-**

* + Windows 10 – Chrome, Firefox, IE 11 and Edge
  + Mac OS – Safari Browser
  + Linux Ubuntu OS – Firefox
  + NetScape
  + Eudora
  + Database-Mysql.

**Hardware Configuration:-**

Hard Disk:- 500GB

Ram :- 6GB

Processor :- I5 8th generation.

5.**Testing Tools**:-

* The following are the list of Tools we will be using in this Project:
  + Word and Excel documents
  + JIRA For Project Management Tool.
  + Data base testing (sql)
  + Performance testing/ Non functional Testing (J meter)
  + Frame work for functional testing (TestNG)
  + To test the Automation scripts (Selenium)
  + Test management tool for test execution (zephyr)
  + Defect management tool (Bugasura)
  + Security testing tool ( Burp suite).

**6. Release Control:-**

* In This Project estimates reveal that it would take 6 months to complete this system with all the identified functionality.

**7.Risk and analysis:-**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Risk** | **Mitigation Strategy** | **Impact** |
| 1 | Delays in delivering completed Test Items from Development would impact test timescales and final Release quality | Product Management and Development to advise of any delays and adjust Release Scope of Resources to allow the test activities to be performed. | High |
| 2 | Delays in the turnaround time for fixing critical bugs, which would require re-testing, could have an impact on the project dates. | Strong management of bug resolution would be required from Development to ensure bugs are fixed and available for re-testing in the scheduled time. | High |
| 3 | The Test Team, Development or PM teams require domain guidance from one or the other and they are not available. This would delay project activities. | The Test Team, Development and PM teams to ensure they are available at critical points or contactable during the project activities. | Medium |
| 4 | Features of Test Items will not be testable. | The Test Team will record untested features and request the PM to assess business risk in support of the release of untested features. | Low |
| 5 | Unexpected dependencies between Test Items and service components are encountered that require revision of Test Scenarios and related Test Cases. | Information about dependencies is updated and communicated promptly to allow timely revision of Test Scenarios and Test Cases | Low |
| 6. | Manager and members page of some feature are not tested in one version | The manager and members page of some features are tested in later versions | Low |
| 7 | Customer page of some features are not tested in one version | The customer page of some features are tested in later versions | Low |
| 8. | Some features of the application to be not tested | The all features of the application to be tested and to give the quality of the application to client. | Medium |

**8.Review & Approval:-**

* it will send different types of documents for Client Approval like below:
* Test Plan
* Test Scenarios
* Test Cases
* Reports

The following people are required to approve the Test Strategy:-

|  |  |
| --- | --- |
| **Approval By** | **Approval** |
| Test Manager | Tarun |
| The Test Department Manager | Tarun |
| Product Owner | Tarun |
| Development Manager | Tarun |
| Project Manager | Tarun |

Testing will only continue to the next steps once these approvals are done.