

TEST STRATEGY FOR



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1. Scope and overview:

Creating a new Application (Orange HRM) which offers Employee Management Services.
functionalities to be tested are:

- Login and Logout
- Admin
 - ✓ User Management
 - ✓ Job
 - ✓ Qualifications
- PIM
 - ✓ Configuration
 - ✓ Employee List
 - ✓ Add Employee
 - ✓ Reports

2. Test Approach:

In this section, we usually define the following

- Test Levels
- Test Types
- Detailed Test Approach
- Roles and Responsibilities
- Environment Requirements

3. Test Levels:

Levels of testing such as unit testing, integration testing, system testing and user acceptance testing.

4. Test Types:

This section lists out the testing types that will be performed during QA Testing.

- ✓ Unit Testing
- ✓ Integration Testing
- ✓ Smoke Testing

- ✓ Regression Testing
- ✓ Re-Testing
- ✓ Sanity
- ✓ UAT
- ✓ Performance
- ✓ Security

5. Detailed Test Approach:

Our Team has communicated with 'Orange HRM' 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
 - 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 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:
 - Smoke Testing and Sanity Testing
 - Regression Testing and Retesting

➤ Usability Testing, Functionality & UI 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.
- End to End Flow Testing – We will test the end-to-end scenario which involve multiple functionalities to simulate the end user flows.
- Defect Reporting Procedure:
- During the test execution –
 - Any deviation from expected behaviour by the application will be noted. If it can't be reported as a defect, it'd be reported as an observation/issue or posed as a question.
 - Any usability issues will also be reported.
 - After discovery of a defect, it will be retested to verify reproducibility of the defect. Screenshots with steps to reproduce are documented.
 - Every day, at the end of the test execution, defects encountered will be sent along with the observations.

Note:

- Defects will be documented in a excel.
- Test scenarios and Test cases will be documented in an excel document.

6. Roles and Responsibilities

Role	Responsibilities
Project Manger	Create the Test Plan, Test Strategy and Test Closure Report
Project Lead	Involved in Test Plan Test Case Design, RTM and Metrics
QA	Execution of Test Cases, Updating the RTM, creating the Bug Reports and Daily/Weekly Test Reports.

7. Environment Requirements: software

Following software's are required in addition to client-specific software.

- Windows 11 – Chrome (Version 108.0.5359.125) and Edge (Version 108.0.1462.54)
- Windows 10 – Chrome (Version 108.0.5359.125) and Edge (Version 108.0.1462.54)

8. Testing tools:

List of all the testing tools are as follows:

- ✓ Project Management Tool- JIRA
- ✓ Bug Tracking Tool- JIRA
- ✓ Automation Tools- Selenium

9. Industry standards to follow:

This section describes the industry standard to produce high quality system that meets or exceeds customer expectations.

10. Test deliverables:

Test Artifacts that will be delivered during different phases of the testing lifecycles are given below :

The deliverables (Artifacts) are:

- ✓ Test Plan
- ✓ Test Strategy
- ✓ Requirement Traceability Matrix
- ✓ Test Cases and Execution
- ✓ Bug Reports
- ✓ Test Metrics
- ✓ Test Summary
- ✓ Customer Sign Off

11. Risk and mitigation

Sr.No	Risk	Mitigation Plan
1	Non-Availability of a Resource	Backup Resource Planning
2	Less time for Testing	Ramp up the resources based on the Client needs dynamically

12. Reporting tool:

JIRA will be the reporting tool for this project.

13. Approvals:

The following people are required to approve the Test Strategy

Approved By Role	Approved By Name

