



Test Plan Execution Report

Test Project: QA Capstone Project
Test Plan: Test Plan for QA Capstone Project
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Test Project: QA Capstone Project

The project focuses on testing the **Login** and **Recruitment** modules of the OrangeHRM system.

The goal is to validate the system's functionality, usability, and performance through manual, automation, and performance testing.

Test Plan: Test Plan for QA Capstone Project

Test Plan for QA Capstone Project

1. Introduction
- This Test Plan outlines the testing approach, objectives, scope, deliverables, and schedule for the QA Capstone Project to be completed in one week. The project focuses on the Login and Recruitment modules of OrangeHRM, covering manual testing, automation with Cypress, and performance testing with K6.
1. Scope of Testing
1. Modules in Scope
- Login Module
 - Valid and invalid login attempts.
 - Field validation for username and password.
 - Error messages for invalid or empty inputs.
 - Recruitment Module
 - Adding a new candidate and vacancies.
 - Searching candidates and vacancies by different attributes.
 - Field validation for mandatory inputs during candidate and vacancies creation.
1. Test Strategy
1. Testing Types
- Functional Testing: Validate functionality of the Login and Recruitment modules.
 - Automation Testing: Automate critical E2E scenarios using Cypress.
 - Performance Testing: Measure the Login page's performance using K6 with parameterized scenarios.
1. Test Deliverables
- Test Cases (Manual and Automated).
 - Manual Test Execution Reports (via TestLink).
 - Cypress Automation Test Scripts and Reports.
 - K6 Performance Test Scripts and Results.
1. Test Execution Schedule

Phase	Activities	Start Date	End Date	Duration
Phase 1:				
Manual Testing	Test case preparation, execution, and reporting	Day 1	Day 2	2 Days

Phase 2: Automation Testing	Develop Cypress scripts and execute tests	Day 3	Day 4	2 Days
Phase 3: Performance Testing	Develop K6 scripts and analyze performance	Day 5	Day 5	1 Day

1. Roles and Responsibilities

Role	Responsibility
QA Lead	Manage test activities, review deliverables, and ensure quality.
QA Engineers	Execute tests, write automation scripts, and analyze performance results.

1. Entry and Exit Criteria

- Entry Criteria
 - SRS and Test Plan are approved.
 - Test environment is ready.
 - Test cases are prepared in TestLink.
- Exit Criteria
 - All test cases are executed.
 - No critical or high-severity defects remain unresolved.
 - Test reports are finalized and shared with stakeholders.

1. Risk Management

Risk	Mitigation Plan
Limited time for execution	Prioritize critical test cases and automate high-priority flows.
Flaky automation tests	Stabilize scripts using retries and Cypress best practices.

1. Test Cases Overview

- Login Module
 - Test valid login with correct credentials.
 - Test invalid login with incorrect credentials.
 - Validate error messages for missing username and password fields.
- Recruitment Module
 - Test adding a new candidate with valid details.
 - Validate error messages for missing mandatory fields during candidate and vacancies creation.
 - Search for candidates and vacancies by different attributes.

1. Tools

Purpose	Tool
Test Management	TestLink
Issue Tracking	Jira
Test Automation	Cypress
Performance Testing	K6
Performance Visualization	Grafana

1. Detailed Timeline

Day	Activity	Deliverable
Day 1	Prepare Test Cases and log them in TestLink.	Test cases prepared and logged in TestLink.
Day 2	Execute test cases manually and generate TestLink report.	Manual Test Execution Report.
Day 3	Develop Cypress E2E automation scripts.	Cypress scripts (Login and Recruitment flows).
Day 4	Execute Cypress tests, generate reports, and debug.	Cypress Test Report.
Day 5	Develop K6 scripts for Login performance testing, execute, and analyze. K6 Performance Report and Metrics.	

1.1.Test Suite : Login Module

Attached files

- Test Cases : Functional_Test.xlsx
- Functional_Test.xlsx

Test Case QACP-4: Verify successful login [Version : 1]

Author: admin

Summary:

1.	Module Name	Test Case ID	Test Scenario	Test Case Objective	Pre-conditions	Test Steps	Test Data	Expected Result
	Login Module	TC_Login_01	Verify successful login	To ensure users can log in with valid credentials	User must be registered and have valid credentials	1. Navigate to the login page. 2. Enter valid username and password. 3. Click "Login".	Username: Admin Password: admin123	User is redirected to the dashboard page.

Preconditions:

User must be registered and have valid credentials

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	1. Navigate to the login page. 2. Enter valid username and password. 3. Click "Login".	User is redirected to the dashbaod page.	Pass	Passed

Execution type: Manual

Estimated exec. duration (min):

Priority: Medium

Requirements None

Keywords: None

Execution Details

Build Phase 1 Manual Testing Build

Tester admin

Execution Result: **Passed**

Execution Mode: **Manual**

Execution duration (min): **1.00**

Execution notes Pass

Test Case QACP-5: Verify login with invalid password [Version : 1]

Author: admin

Summary:

Login Module	TC_Login_02	Verify login with invalid password	To ensure the system handles invalid passwords correctly	User must be registered	1. Navigate to the login page. 2. Enter valid username and invalid password. 3. Click "Login".	Username: Admin Password: InvalidPass	"Invalid credentials" error message is displayed.
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Preconditions:

User must be registered

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	1. Navigate to the login page. 2. Enter valid username and invalid password. 3. Click "Login"	"Invalid credentials" error message is displayed.	Pass	Passed

Execution type: Manual

Estimated exec. duration (min):

Priority:	Medium
Requirements	None
Keywords:	None
Execution Details	
Build	Phase 1 Manual Testing Build
Tester	admin
Execution Result:	Passed
Execution Mode:	Manual
Execution duration (min):	1.00
Execution notes	Pass


Test Case QACP-9: Verify login with empty fields [Version : 1]							
Author:		admin					
Summary:							
Login Module	TC_Login_03	Verify login with empty fields	To ensure the system validates empty fields	Login page must be accessible	1. Navigate to the login page. 2. Leave username and password fields empty. 3. Click "Login".	None "Username and Password cannot be empty" error message is displayed.	
Preconditions:							
Login page must be accessible							
#:	Step actions:			Expected Results:		Execution notes:	Execution Status:
1	1. Navigate to the login page. 2. Leave username and password fields empty. 3. Click "Login".			"Username and Password cannot be empty" error message is displayed.		success	Passed
Execution type:		Manual					
Estimated exec. duration (min):							
Priority:		Medium					
Requirements		None					
Keywords:		None					
Execution Details							
Build		Phase 1 Manual Testing Build					
Tester		admin					
Execution Result:		Failed					
Execution Mode:		Manual					
Execution duration (min):		2.00					
Execution notes		Fail. Only "Required" message pops up on username and password but no error messaged displayed.					
Execution Attachments							
• empty_login_error.png							



Login

Username : Admin

Password : admin123

 Username

Username

Required

 Password

Password

Required

Login

Forgot your password?



OrangeHRM OS 5.7

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Test Case QACP-8: Verify account lock after failed attempts [Version : 1]

Author:

admin

Summary:

Login Module	TC_Login_04	Verify account lock after failed attempts	To ensure the system locks accounts after multiple failed login attempts	User must be registered	<div>1. Navigate to the login page.</div> <div>2. Enter valid username and incorrect password multiple times (e.g., 5 times).</div> <div>3. Observe behavior.</div>	<div>Username: Admin</div> <div>Password: InvalidPass</div>	User account is locked, and "Account locked" error message is displayed.
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Preconditions:

User must be registered

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	<div>1. Navigate to the login page.</div> <div>2. Enter valid username and incorrect password multiple times (e.g., 5 times).</div>	User account is locked, and "Account locked" error message is displayed.	success	Passed

	3. Observe behavior.			
<u>Execution type:</u>	Manual			
<u>Estimated exec. duration (min):</u>				
<u>Priority:</u>	Medium			
<u>Requirements</u>	None			
<u>Keywords:</u>	None			
Execution Details				
Build	Phase 1 Manual Testing Build			
Tester	admin			
<u>Execution Result:</u>	Failed			
<u>Execution Mode:</u>	Manual			
<u>Execution duration (min):</u>	5.00			
Execution notes	Fail. Only "Invalid credentials" message appears even if tried multiple times with invalid password. No "Account locked" message displayed.			

Test Case QACP-10: Verify password field encryption [Version : 1]

<u>Author:</u>		admin					
<u>Summary:</u>							
Login Module	TC_Login_05	Verify password field encryption	To ensure the password field is encrypted during input	Login page must be accessible	1. Navigate to the login page.	None	Password is displayed as dots or asterisks instead of plain text.
					2. Observe the password field while typing.		

Preconditions:

Login page must be accessible

<u>#:</u>	<u>Step actions:</u>	<u>Expected Results:</u>	<u>Execution notes:</u>	<u>Execution Status:</u>
1	1. Navigate to the login page. 2. Observe the password field while typing.	Password is displayed as dots or asterisks instead of plain text.	success	Passed
<u>Execution type:</u>	Manual			
<u>Estimated exec. duration (min):</u>				
<u>Priority:</u>	Medium			
<u>Requirements</u>	None			
<u>Keywords:</u>	None			
Execution Details				
Build	Phase 1 Manual Testing Build			
Tester	admin			
<u>Execution Result:</u>	Passed			
<u>Execution Mode:</u>	Manual			
<u>Execution duration (min):</u>	1.00			
Execution notes	pass			

Execution time metrics

Time used for executing 5 test cases (min):10