

OrangeHRM

Static testing



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overview about orangeHRM testing process



Agenda →



1. Project Planning & Management

- Testing plan.

2. Requirements Gathering

- Functional and Non-functional requirements
- Use Case
- User stories

3. System Analysis & Design

- Manual Testing sheet
- Bug Report

PROJECT PLANNING & MANAGEMENT

1. Testing Plan Summary (Key Points):

2. Scope: 7 critical pages (e.g., Free Trial, Contact Sales).

3. Risks: Functional, compatibility, security, performance.

4. KPIs:

- 100% test coverage (critical modules).
- <2 sec response time.
- ≥90% bug detection rate.



Project Planning & Management OrangeHRM Test Plan

- Scope and objectives:

Testing OrangeHRM software with a focus on the following pages :

1. [Plans and Pricing page](#)
2. [Career page](#)
3. [Free trial registration page](#)
4. [E-books page](#)
5. [Free demo booking page](#)
6. [contact sales page](#)
7. [certification sign-up page](#)

- Team roles:

○ Islam Hamdy Mohamed	(Manual testing)
○ Karim Ashraf Shobak	(API testing)
○ Malak Hussein Osman	(API testing)
○ Marwa Ebrahim Tawifk	(Automation testing)
○ Nour El-Din Ahmed Ayoub	(Automation testing)

- Risk analysis:

1. Functional Risks:
 - Critical features (e.g., payroll processing) may not work as expected.
 - Bugs or defects in core functionalities.
2. Compatibility Risks:
 - Browser compatibility issues (e.g., software doesn't work on Chrome, Firefox, or Safari).
 - Device compatibility issues (e.g., mobile vs. desktop).
 - Operating system compatibility (e.g., Windows, macOS, Linux).
3. Performance Risks:
 - Slow response times or system crashes under heavy load.
 - Inability to handle large datasets (e.g., thousands of employee records).
4. Security Risks:
 - Vulnerabilities exposed during testing (e.g., SQL injection, unauthorized access).
 - Sensitive data (e.g., employee records) being exposed during testing.

- 5. Regression Risks:

- New updates or fixes break existing functionalities.
- Incomplete regression testing due to time constraints.

- 6. Resource Risks:

- Lack of skilled testers or insufficient testing tools.
- Tight deadlines lead to incomplete testing.

- 7. Integration Risks:

- When integrating with other systems (e.g., accounting software, biometric devices).
- Data synchronization failures between modules.

- 8. Environmental Risks:

- Differences between the testing environment and the production environment.
- Lack of access to real-world data for testing.

- Key Performance Indicators (KPIs):

To measure the effectiveness of our testing process for OrangeHRM software, we will track the following KPIs:

KPI	Formula/Example	Target
Bug Detection Rate	(Bugs Found / Total Bugs) × 100	90% or higher
Test Coverage Percentage	(Test Cases Executed / Total Test Cases) × 100	100% for critical modules
Response Time for Key Actions	Time(Response Received) - Time(Request Sent)	Under 2 seconds
Defect Resolution Time	Total Time / Number of Defects Resolved	<8 hours (critical), <24 hours
Test Case Pass Rate	(Passed Test Cases / Executed Test Cases) × 100	95% or higher
Test Execution Rate	Test Cases Executed / Total Time Spent	10-20 test cases per hour
Defect Leakage Rate	(Defects After Release / Total Defects) × 100	Less than 5%
Automation Test Coverage	(Automated Test Cases / Total Test Cases) × 100	70-80%

REQUIREMENTS GATHERING

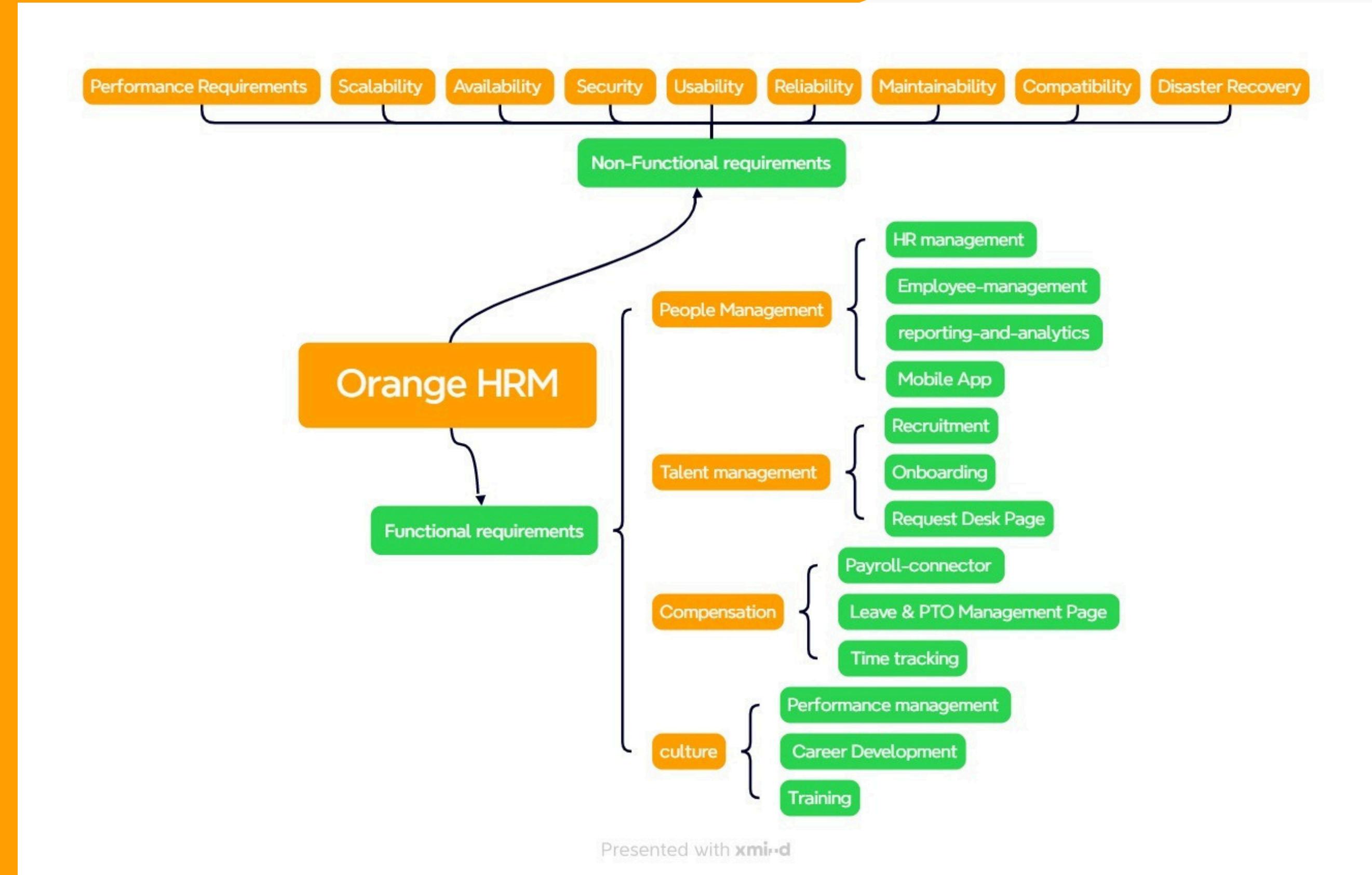


Here is all requirements of OrangeHRM in details:

Func. & Non-Func. requirements

Use-case Doc.

User-Story Doc



SYSTEM ANALYSIS & DESIGN



Manual Testing Sheet



A	B	C	D	E	F	G	H	I	J	K
Test Case ID		Test Scenario	Test Cases	Preconditions	Test Steps	Test Data	Test Objective	Expected Results	Actual Result	Test Result
CP01	Upload Resume	Verify that the system will accept resume file with extensions (.docx, .doc, .odt, .pdf, .rtf, .txt) and file size less than 5MB	file extension Must be (docx, doc , odt, pdf, rtf, txt)	1- stable internet 2- job page is opened	1- Open OrangeHRM Wbsite 2- Hover on (Company) in nav bar 3- Select Carrers 4- Select a job 5- Press Apply 6- click on Select Resume	cv file less than 5 MB	Ensure that the system accepts resume with extensions (docs , doc, odt, pdf, rtf, txt)	system accepts the file	system acceptd the file	PASS
CP02		Verify that the system will NOT accept resume file with extensions (.docx, .doc, .odt, .pdf, .rtf, .txt) and file size MORE than 5MB	file extension Must be (docx, doc , odt, pdf, rtf, txt) and less than 5MB	1- stable internet 2- job page is opened	1- Open OrangeHRM Wbsite 2- Hover on (Company) in nav bar 3- Select Carrers 4- Select a job 5- Press Apply 6- click on Select Resume	cv file more than 5 MB	Ensure that the system will NOT accept resume More than 5MB	system displays error indicate (file must be 5 MB or less)	system displays error indicate (file must be 5 MB or less)	PASS
CP03		Verify that the system will NOT accept resume file with extensions Other (.docx, .doc, .odt, .pdf, .rtf, .txt) and file size LESS than 5MB	file extension with extensions other (docx, doc, odt, pdf, rtf, txt) and less than 5MB	1- stable internet 2- job page is opened	1- Open OrangeHRM Wbsite 2- Hover on (Company) in nav bar 3- Select Carrers 4- Select a job 5- Press Apply 6- click on Select Resume 7- upload xlxs file	cv with xlxs extension	Ensure that the system will NOT accept resume	system displays error indicate (this file is not valid)	system displays error indicate (this file is not valid)	PASS
CP04		Verify that system will NOT accept the form when resume field is empty	Resume file is required	1- stable internet 2- job page is opened	1- Open OrangeHRM Wbsite 2- Hover on (Company) in nav bar 3- Select Carrers 4- Select a job 5- Press Apply 6- click on Select Resume 7- leave resume field empty	Blank	Ensure that system will NOT accept the form without resume	system displays error indicate (file resume is required)	system displays error indicate (file resume is required)	PASS
CP05	First Name Field	Verify that system accept Characters	First Name Field accept Characters	1- stable internet 2- job page is opened	1- Open OrangeHRM Wbsite 2- Hover on (Company) in nav bar 3- Select Carrers 4- Select a job 5- Press Apply 6- press on first name field or press TAB 7- add characters	first name : Characters	Ensure that the system accepts characters at first name field	system accept the name	The system successfully accepts alphabetic characters in the First Name field as expected.	PASS
CP06		Verify that the system will NOT accept Special Characters	First Name Field does not accept Special Characters	1- stable internet 2- job page is opened	1- Open OrangeHRM Wbsite 2- Hover on (Company) in nav bar 3- Select Carrers 4- Select a job 5- Press Apply 6- press on first name field or press TAB 7- add special characters	first name : Characters & Special Characters	Ensure that the system accepts special characters at first name field	system accept the name	The system incorrectly accepts special characters in the First Name field, which does not meet the expected behavior.	FAIL

SYSTEM ANALYSIS & DESIGN

Bug Report

1	A	B	C	D	E	F	G	H	I	J
	Defect #	Status	Raised By	Tested on Version	Test Case ID	Steps to Reproduce	Expected Result	Actual Result	Priority	Severity
2	1	open	Nour El-Din	V1.0	CS02	1- Open https://www.orangehrm.com/en/contact-sales 2- press on fullname field 3- add special characters 4- Press TAB and move to next field	system display error (special characters are not allowed)	system accept the name	medium	medium
3	2	open	Nour El-Din	V1.0	CS03	1- Open https://www.orangehrm.com/en/contact-sales 2- press on fullname field 3- add numbers with the characters 4- Press TAB and move to next field	system display error (numbers are not allowed)	system accept the name	medium	medium
4	3	open	Nour El-Din	V1.0	CS04	1- Open https://www.orangehrm.com/en/contact-sales 2- press on fullname field 3- enter space to the first character 4- Press TAB and move to next field	system display error (the first character can not be space)	system accept the name	medium	medium
5	4	open	Nour El-Din	V1.0	CS06	1- Open https://www.orangehrm.com/en/contact-sales 2- Enter Valid Full Name 3- Enter Phone Number with Special Characters 4- Press TAB and move to next field	System display error (Special Characters are not allowed)	System Accept Special Characters are not allowed in phone number	medium	medium
6	5	open	Nour El-Din	V1.0	CS08	1- Open https://www.orangehrm.com/en/contact-sales 2- Enter Valid Full Name 3- Enter Phone Number with Characters 4- Press TAB and move to next field	System display error (Characters are not allowed)	System Accept Special Characters are not allowed in phone number	medium	medium
7	6	open	Nour El-Din	V1.0	CS09	1- Open https://www.orangehrm.com/en/contact-sales 2- Enter Valid Full Name 3- Enter first character in Phone Number with space 4- Press TAB and move to next field	System display error (First character cannot be Space)	System Accept Phone number be Space in First Character	medium	medium
8	7	open	Nour El-Din	V1.0	CS14	1- Open https://www.orangehrm.com/en/contact-sales 2- Enter Valid Full Name 3- Enter Phone Number starting with 018 4- Press TAB and move to next field	System display Error (Phone Number must start with 010,011,012 and 15)	system accept the phone number	medium	medium
9	8	open	Nour El-Din	V1.0	CS15	1- Open https://www.orangehrm.com/en/contact-sales 2- Enter Valid Full Name 3- Enter Phone Number with 12 digits 4- Press TAB and move to next field	System display Error (Phone number must have 11 digits)	system accept the phone number	medium	medium
10	9	open	Nour El-Din	V1.0	CS16	1- Open https://www.orangehrm.com/en/contact-sales 2- Enter Valid Full Name 3- Enter Phone Number with 10 digits 4- Press TAB and move to next field	System display Error (Phone number must have 11 digits)	system accept the phone number	medium	medium
						1- Open https://www.orangehrm.com/en/contact-sales	system displays an error			

Team Members



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THANK YOU!