

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](#)
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- **Team roles:**

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|---------------------------|----------------------|
| ○ Islam Hamdy Mohamed | (Manual testing) |
| ○ Karim Ashraf Shobak | (API testing) |
| ○ Malak Hussein Osman | (API testing) |
| ○ Marwa Ebrahim Tawifk | (Automation testing) |
| ○ Nour El-Din Ahmed Ayoup | (Automation testing) |
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- **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	$(\text{Bugs Found} / \text{Total Bugs}) \times 100$	90% or higher
Test Coverage Percentage	$(\text{Test Cases Executed} / \text{Total Test Cases}) \times 100$	100% for critical modules
Response Time for Key Actions	$\text{Time}(\text{Response Received}) - \text{Time}(\text{Request Sent})$	Under 2 seconds
Defect Resolution Time	Total Time / Number of Defects Resolved	<8 hours (critical), <24 hours
Test Case Pass Rate	$(\text{Passed Test Cases} / \text{Executed Test Cases}) \times 100$	95% or higher
Test Execution Rate	Test Cases Executed / Total Time Spent	10-20 test cases per hour
Defect Leakage Rate	$(\text{Defects After Release} / \text{Total Defects}) \times 100$	Less than 5%
Automation Test Coverage	$(\text{Automated Test Cases} / \text{Total Test Cases}) \times 100$	70-80%