## **Test Strategy for OrangeHRM Website**

**Objective:** The objective is to test the end-to-end functionality, usability, performance, securely, and efficiently meeting the needs of HR professionals and employees..

### **Scope**

#### In scope:

- Cover End-to-End Testing

- Employee registration/recruitment and management

- Employee Data

- Payroll schedule & Details

- Admin module and workflows

- Web and mobile site Out of scope:

- Leaves Management & Reporting Module

### Focus Areas

- Functional correctness of flows

- UI/navigation

- Performance

- load, stress and scalability

- Security - vulnerabilities, encryption

- Compatibility

- browsers, devices, OS

- Usability - ease of use, accessibility

### Approach

- Black box and white box testing techniques

- Automated test cases using Cypress/Selenium and JMeter

- Exploratory testing for key workflows

- Load testing with JMeter for at least 1000 concurrent users - Security testing for OWASP Top 10 vulnerabilities.

- Cross browser compatibility testing on IE, Chrome, Firefox - Ease of use evaluation with at least 10 end users.

### Deliverables

- Functional test cases and reports

- Performance test scripts and results - Security vulnerabilities report

- User acceptance testing report

- Test coverage and defect reports

- Automation regression suite

### Team & Schedule Testing

* team of 5 members needed for 4 months testing effort Proposed schedule:

- November: Functional and security testing

- December: Load/performance testing

- January: Compatibility testing, UAT - Feb: Regression testing

### Entry & Exit Criteria User stories

* to be tested must meet the defined 'Ready for Testing' criteria.
* Testing completes when all test cases execute with no critical defects outstanding.

### Risks

Delay in test environment availability

- Lack of access to integrate with other software (e.g., payroll systems, time tracking), compatibility and data synchronization issues may arise

- Complex workflows may require more time and resources