

## Test Plan Document – User Registration Form

Section	Details
Project Name	Web Application Testing
Module Name	User Registration Form
Test Plan ID	TP_001
Prepared By	Nethmi Wandana (QA Engineer)
Prepared Date	01-Dec-2024
Reviewed By	John (QA Lead)
Reviewed Date	03-Dec-2024
Approved By	Michael (Project Manager)
Approval Date	05-Dec-2024
Objective	Ensure the User Registration Form functions correctly, validating form fields, file upload, and submission processes.
Test Types	Functional Testing, UI Testing, Usability Testing, Compatibility Testing
Test Approach	Manual Testing and Automated Testing using Selenium WebDriver
Testing Tools	Selenium WebDriver, TestNG, JIRA
Test Environment	Windows 10, macOS, Linux with Chrome, Firefox, Edge, Safari
Scope – In Scope	<ul style="list-style-type: none"><li>- Field validation (mandatory fields, input formats)</li><li>- File upload functionality</li><li>- Form submission success criteria</li><li>- UI alignment and responsiveness</li><li>- Error handling and validation messages</li><li>- Cross-browser compatibility</li></ul>
Scope – Out of Scope	<ul style="list-style-type: none"><li>- Database testing</li><li>- Backend API performance testing</li></ul>
Testing Objectives	<ol style="list-style-type: none"><li>1. Validate form submission with valid inputs</li><li>2. Check error messages for incorrect inputs</li><li>3. Test file upload functionality</li><li>4. Ensure checkbox validation for Terms and Conditions</li><li>5. Confirm UI responsiveness across different devices</li></ol>

Test Execution Strategy	<ul style="list-style-type: none"> <li>- Unit Testing: Conducted by developers</li> <li>- Functional Testing: Manual testing of form validations</li> <li>- UI/UX Testing: Checking field alignment and responsiveness</li> <li>- Regression Testing: Automated test cases in Selenium</li> <li>- Compatibility Testing: Executed on multiple browsers</li> </ul>			
Test Environment Setup	<ul style="list-style-type: none"> <li>- OS: Windows 10, macOS, Linux</li> <li>- Browsers: Chrome, Firefox, Edge, Safari</li> <li>- Testing Tools: Selenium WebDriver, TestNG, JIRA</li> <li>- Test Data: Dummy user details in an Excel Sheet</li> </ul>			
Test Cases Overview	TC_001 – Verify form loads properly TC_002 – Register with valid data TC_003 – Submit form with empty required fields TC_004 – Check email format validation TC_005 – Upload a valid file TC_006 – Submit form without agreeing to terms TC_007 – Check password masking TC_008 – Verify UI alignment across devices			
Test Data	<b>Valid Data:</b> Name: John Do Email: johndoe@example.com Password: Password@123 Uploaded File: valid_document.pdf Agree to Terms: <input checked="" type="checkbox"/>  <b>Invalid Data:</b> Empty fields Incorrect email format (e.g., invalidemail.com) Weak password (e.g., 12345) Unchecked Terms and Conditions			
Test Schedule & Milestones	Test Planning	01-Oct-2024	03-Oct-2024	QA Lead
	Test Case Design	04-Oct-2024	06-Oct-2024	QA Engineer
	Environment Setup	07-Oct-2024	08-Oct-2024	DevOps Team
	Test Execution	09-Oct-2024	15-Oct-2024	QA Team
	Bug Fixing & Retesting	16-Oct-2024	19-Oct-2024	Developers & QA
	Test Closure & Reporting	20-Oct-2024	21-Oct-2024	QA Lead

<b>Test Entry Criteria</b>	<ul style="list-style-type: none"> <li>- Registration form development completed</li> <li>- Test cases are documented and reviewed</li> <li>- Test environment is set up and ready</li> </ul>		
<b>Test Exit Criteria</b>	<ul style="list-style-type: none"> <li>- 95% test case execution completed</li> <li>- All critical defects fixed</li> <li>- Test summary report submitted</li> </ul>		
<b>Defect Management Process</b>	<ol style="list-style-type: none"> <li>1. Defect Reporting: QA logs defects in JIRA</li> <li>2. Defect Triage: Development team prioritizes critical issues</li> <li>3. Fix &amp; Retest: Developers fix issues, QA verifies fixes</li> <li>4. Closure: Verified defects are marked as Closed</li> </ol>		
<b>Risk Assessment &amp; Mitigation</b>	<b>Risk</b>	<b>Impact</b>	<b>Mitigation Plan</b>
	Late development delivery	Delays in testing	Start test planning early
	Browser compatibility issues	Users face issues on certain browsers	Perform cross-browser testing
	Test environment issues	Delayed test execution	Keep backup environments ready
<b>Test Deliverables</b>	<ul style="list-style-type: none"> <li>- Test Plan Document</li> <li>- Test Case Document</li> <li>- Test Execution Report</li> <li>- Defect Report</li> <li>- Test Summary Report</li> </ul>		
<b>Approval</b>			