

Test Plan On Registration Form

1. Introduction

This document outlines the Test Plan for the **Registration Page** of the application. The purpose of this test is to verify the correctness, completeness, and robustness of the registration process by executing both positive and negative scenarios. This will ensure the page meets functional, security, and usability requirements.

2. Objective

- Ensure all input fields meet validation rules (e.g., password strength, email format).
- Verify the system handles invalid input gracefully by displaying appropriate error messages.
- Ensure the overall registration process operates smoothly, storing user data as expected.

3. Scope of Testing

The scope includes testing all input fields, error messages, form submission, and backend validations. It also covers usability, security aspects (like blocking cross-site scripting), and boundary testing for various fields.

In-Scope:

- Functional Testing
- Usability Testing
- Validation Testing
- Cross-Browser Testing
- Security Testing (XSS Validation)

Out-of-Scope:

- Backend API testing (to be covered separately).
- Performance testing under load (handled during performance tests).

4. Test Items

The registration page contains the following fields to be tested:

- **Username:** Min 5 characters, Max 15 characters, no special symbols.

- **Password:** Must contain uppercase, lowercase, digit, special character, and be at least 8 characters long.
 - **Email:** Valid email format required.
 - **Phone Number:** Numeric-only, 10-15 digits.
 - **Gender:** Must select one option.
 - **Date of Birth:** Should be in the past.
 - **Country:** Selectable from a dropdown.
 - **Terms and Conditions Checkbox:** Mandatory acceptance.
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5. Test Approach

- **Manual Testing:** Execute each test case manually to validate the functionality.
 - **Positive Testing:** Provide valid inputs to ensure the system works as expected.
 - **Negative Testing:** Enter invalid data to verify the error messages and field validations.
 - **Boundary Value Testing:** Test field limits (e.g., min/max length of the username).
 - **Usability Testing:** Validate the ease of use, proper field alignment, and button functionality.
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6. Test Deliverables

- **Test Cases Document**
 - **Bug Report**
 - **Test Summary Report**
 - **Pictorial Summary Report**
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7. Entry and Exit Criteria

Entry Criteria:

- Test environment is set up and functional.
- Registration page is ready for testing.
- Test cases are reviewed and approved.

Exit Criteria:

- All critical test cases executed.

- All high and medium priority bugs resolved or deferred with approval.
- Test summary report prepared and shared.

8. Test Schedule

Task	Owner	Start Date	End Date
Test Case Creation	QA Team	2024-10-16	2024-10-18
Test Execution	QA Team	2024-10-19	2024-10-20
Bug Reporting & Tracking	QA Team	2024-10-19	2024-10-21
Test Summary Report Preparation	QA Team	2024-10-21	2024-10-22

9. Roles and Responsibilities

Role	Responsibility
Test Manager	Define scope, oversee testing activities
QA Engineer	Execute test cases, log bugs, prepare reports
Developer	Fix bugs, support testing activities
Business Analyst	Review and validate test results

10. Risks and Mitigation

Risk	Mitigation
Tight testing schedule	Prioritize critical test cases
Unavailable test environment	Communicate with DevOps to ensure environment readiness
Unexpected issues during testing	Hold daily status meetings to track progress and blockers

11. Defect Management

All defects identified will be logged in a **Bug Tracking System** and tracked based on severity and priority.

- **Critical bugs:** Block testing until resolved.
- **High-priority bugs:** Must be fixed before release.
- **Low-priority bugs:** Fix can be deferred with approval.

12. Test Environment

- **Browser Compatibility:** Chrome, Firefox, Edge

- **Operating Systems:** Windows 10, MacOS
 - **Test Data Management:** Dummy data for inputs (emails, usernames, etc.)
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13. Conclusion

This Test Plan ensures the Registration Page undergoes comprehensive testing across multiple scenarios. With both functional and non-functional testing included, the plan aims to deliver a smooth and bug-free user registration experience.
