Registration Form
Test Plan

By
Qazi Zain
Phone : 03020033346
Email: kazizain94@gmail.com

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Introduction:

The registration form is a key part of any website, allowing users to create accounts and access personalized features. This form gathers important user information like full name, email address, password, date of birth, and gender. It also includes an option for newsletter subscriptions. Testing the registration form is crucial because it ensures that the form works correctly and provides a smooth experience for users. A well-functioning form helps users sign up easily and stay engaged with the website. On the other hand, if the form has issues, it can frustrate users and drive them away. This test plan will cover the objectives, scope, test environment, test data, test scenarios, execution schedule, risks, and assumptions for thoroughly testing the registration form.

Objectives:

- Ensure the registration form functions correctly and allows users to successfully create accounts.
- Validate all input fields to ensure they accept valid data and reject invalid entries.
- Display clear and appropriate error messages for incorrect or incomplete inputs.
- Confirm that the form submits data accurately to the server upon successful completion.
- Check that the form does not allow submission with incomplete or invalid data.
- Verify that after successful registration, the user is appropriately redirected to the next page or receives a confirmation message

Scope:

- **Full Name:** Accept valid names only and display error on invalid name or empty field.

- **Email:** Accept the valid email address format abc@examplemail.com which meets the standard email address format or display error message on invalid format or empty field.

- **Password & Confirm Password:** Accept only when its meet the minimal length of 8 characters and check password & confirm password matches, else display error on this and invalid field.

- **Date of Birth:** Accept only valid date and its format and display error message on invalid date and format and on empty input, also check the condition if the age is restricted.

- **Gender:** Ensure that gender select from givem option(male,female,other) and check the selection properly and give error on empty field.

- **Newsletter Subscription:** Verify that users can opt in or out of receiving newsletters and that their preferences are correctly saved.

- **Submit button:** Ensure that all the required fields are field with appropriate values, ensure the successful submission of form.

Test Enviourment:

- **Operating System:** Windows 11

- **Browser:** Chrome version 126

- **Testing Tool:** Cypress

Test Data:

- **Email address:**

  Valid Email : "abc45@gmail.com", "ded43@yahoomail.com", "xyz98@webmail.com".
  Invalid Email: "user@.com","@example.com","abc.123.com".

- **Password of varying length:**

  Valid : "Password", "P0ass123","LongPass123"
  Invalid: "1234567","pass"," "(empty)

- **Valid Date:**

  Valid: "2001-01-01","2012-12-31","2005-03-23"
  Invalid:"2026-03-25"(Future Date),"2020-13-23"(incorrect month Value)," "(empty)

- **Full Name:**

  Valid: "Qazi Zain", "Qazi-Zain Qureshi"

Invalid: " "(empty), "1233","@Zain".

- **Gender:**

  Options: "male","female","Other".

- **Newsletter:**

  Options: "yes","no".

Test Scenarios:

Positive Scenarios:

1. **Scenario**: Successful Registration with Valid Inputs
   - **Steps:**
   - Enter valid full name, email, password, confirm password, date of birth, gender, and select 'Yes' for newsletter subscription.
   - Click 'Submit'.
   - **Expected Outcome:** User is successfully registered and redirected to a welcome page.

2. **Scenario:** User Opts Out of Newsletter Subscription.
   - **Steps:**
   - Enter valid full name, email, password, confirm password, date of birth, and gender.
   - Select 'No' for newsletter subscription.
   - Click 'Submit'.
   - **Expected Outcome:** User is registered without subscribing to the newsletter and redirected to a welcome page.

Negative Scenarios:

1. **Scenario:** Invalid Email Format
   ● **Steps:**
   ● Enter valid full name, invalid email format (e.g., missing '@' or domain), valid password, confirm password, date of birth, gender, and select 'Yes' for newsletter subscription.
   ● Click 'Submit'.
   ● **Expected Outcome:** Error message "Invalid email address" is displayed.

2. **Scenario:** Non-Matching Passwords
   ● **Steps:**
   ● Enter valid full name, email, valid password, non-matching confirm password, date of birth, gender, and select 'Yes' for newsletter subscription.
   ● Click 'Submit'.
   ● **Expected Outcome**: Error message "Passwords do not match" is displayed.

Test Execution Schedule:

Detailed Schedule Breakdown

Day 1:
   ● Task: Test Planning
   ● Description: Define test objectives, scope, environment, data, and scenarios
   ● Responsible: QA Lead

Day 2-3:
   ● Task: Test Case Development
   ● Description: Write detailed test cases for identified scenarios
   ● Responsible: QA Team

Day 4:
   ● Task: Test Data Preparation
   ● Description: Create and gather necessary test data
   ● Responsible: QA Team

Day 5:
- Task: Environment Setup
- Description: Set up testing environment with necessary tools and configurations
- Responsible: QA Team

Day 6-8:
- Task: Manual Test Execution
- Description: Execute manual test cases for all scenarios
- Responsible: QA Team

Day 9-10:
- Task: Automated Test Script Development
- Description: Write automated test scripts for positive scenarios using Cypress
- Responsible: QA Automation Engineer.

Day 11:
- Task: Automated Test Execution
- Description: Run automated tests and validate results
- Responsible: QA Automation Engineer

Day 12-13:
- Task: Defect Reporting and Retesting
- Description: Report any defects found and retest after fixes
- Responsible: QA Team

Day 14:
- Task: Test Closure
- Description: Summarize test results, prepare test summary report, and obtain sign-off
- Responsible: QA Lead

Risks and Assumptions

Assumptions:
- Stable network connectivity during testing.
- Test environment and tools are consistently available and functional.
- No major changes to the form's design or functionality during the testing period.
- Test data will comply with data privacy regulations.

Risks:
- Potential changes in the form design or functionality during testing.
- Issues with testing tools or the test environment.
- Limited availability of testing resources.
- Delays in fixing reported defects.
- Inaccurate test results due to poorly prepared test data.