# Test Plan for Registration Form

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### Introduction

This test plan outlines the strategy and approach for testing the online registration form of a website. The form collects user information and validates the input fields before submitting the data to the server.

## **Objectives**

- Ensure that the registration form accepts valid inputs and rejects invalid inputs.
- Verify that appropriate error messages are displayed for invalid inputs.
- Confirm that the form successfully submits the data to the server upon correct completion.

## Scope

The scope of this testing includes functional testing of the registration form fields, validation messages, and form submission process.

#### Test Environment

- Browser: Chrome
- Operating System: Windows
- Testing Tools: Cypress, Postman (for API testing)
- Test Server: Staging server with the registration form deployed

#### Test Data

- Full Name: "John Doe", "J", ""
- Email Address: "john.doe@example.com", "john.doe@", "john.doe"
- Password: "password123", "pass", ""
- Confirm Password: "password123", "pass", ""
- Date of Birth: "1990-01-01", "01-01-1990", ""
- Gender: "Male", "Female", "Other", ""
- Newsletter Subscription: "Yes", "No"

### **Test Scenarios**

- Positive Scenarios:
  - User registers with valid information.
  - User opts for newsletter subscription.
- Negative Scenarios:
  - User leaves mandatory fields empty.
  - User enters mismatched passwords.

### Test Execution Schedule

• Test Planning: 1 days

• Test Case Design: 1 days

• Test Environment Setup: 1 day

• Test Execution: 1 days

• Test Reporting: 1 days

## Risks and Assumptions

- Risks: Delays in environment setup, unexpected bugs, and server downtime.
- Assumptions: All necessary resources and tools will be available, and the registration form functionality will remain unchanged during testing.

### Test Cases

#### Test Case 1

**ID:** TC001

Description: Verify that the user can register with valid information.

**Preconditions:** The registration form page is accessible.

**Test Steps:** 1. Navigate to the registration form.

- 2. Enter "Hassan Raza" in the Full Name field.
- 3. Enter "hassanraza7241@gmail.com" in the Email Address field.
- 4. Enter "hassanali123" in the Password field.
- 5. Enter "hassanali123" in the Confirm Password field.
- 6. Enter "2002-08-14" in the Date of Birth field.
- 7. Select "Male" for Gender.
- 8. Select "Yes" for Newsletter Subscription.
- 9. Click the Submit button.

Expected Results: The form is submitted successfully, and a confirmation message is displayed.

**Post-conditions:** The user is registered in the system.

#### Test Case 2

**ID:** TC002

**Description:** Verify that an error message is displayed for empty mandatory fields.

**Preconditions:** The registration form page is accessible.

**Test Steps:** 1. Navigate to the registration form.

- 2. Leave the Full Name field empty.
- 3. Enter "hassanraza7241@gmail.com" in the Email Address field.
- 4. Enter "hassanali123" in the Password field.
- 5. Enter "hassanali123" in the Confirm Password field.
- 6. Enter "2002-08-14" in the Date of Birth field.
- 7. Select "Male" for Gender.
- 8. Select "Yes" for Newsletter Subscription.
- 9. Click the Submit button.

Expected Results: An error message is displayed indicating that the Full Name field is mandatory.

**Post-conditions:** The form is not submitted.

#### Test Case 3

**ID:** TC003

**Description:** Verify that an error message is displayed for mismatched passwords.

**Preconditions:** The registration form page is accessible.

**Test Steps:** 1. Navigate to the registration form.

- 2. Enter "Hassan Raza" in the Full Name field.
- 3. Enter "hassanraza7241@gmail.com" in the Email Address field.
- 4. Enter "hassanali123" in the Password field.
- 5. Enter "hassanali321" in the Confirm Password field.
- 6. Enter "2002-08-14" in the Date of Birth field.
- 7. Select "Male" for Gender.
- 8. Select "Yes" for Newsletter Subscription.
- 9. Click the Submit button.

Expected Results: An error message is displayed indicating that the passwords do not match.

**Post-conditions:** The form is not submitted.

### Scenario Identification

#### Positive Scenarios

- Scenario 1: User registers with valid information
  - Steps: Fill out all fields with valid data and submit the form.
  - Expected Outcome: Form submission is successful, and a confirmation message is displayed.
- $\bullet\,$  Scenario 2: User opts for new sletter subscription
  - Steps: Fill out all fields with valid data, select "Yes" for Newsletter Subscription, and submit the form.
  - Expected Outcome: Form submission is successful, and the user is subscribed to the newsletter.

#### **Negative Scenarios**

- Scenario 3: User leaves mandatory fields empty
  - Steps: Leave one or more mandatory fields empty and submit the form.
  - Expected Outcome: An error message is displayed indicating the mandatory fields that need to be filled.
- Scenario 4: User enters mismatched passwords
  - Steps: Enter different values in the Password and Confirm Password fields and submit the form
  - Expected Outcome: An error message is displayed indicating that the passwords do not match.

## Test Writing

#### **Automated Test Scripts**

Listing 1: Cypress Script for Positive Scenarios

```
describe ('Registration Form Tests', () => {
  it ('User registers with valid information', () => {
    cy.visit('https://example.com/register');
    cy.get('#fullName').type('Hassan Raza');
    cy.get('#email').type('hassanraza7241@gmail.com');
    cy.get('#password').type('hassanali123');
    cy.get('#confirmPassword').type('hassanali123');
    cy.get('\#dob').type('2002-08-14');
    cy.get('#gender').select('Male');
    cy.get('#newsletter').check('No');
    cy.get('#submit').click();
    cy.contains('Registration successful').should('be.visible');
  });
  it ('User opts for newsletter subscription', () => {
    cy.visit('https://example.com/register');
    cy.get('#fullName').type('Hassan Raza');
    cy.get('#email').type('hassanraza7241@gmail.com');
    cy.get('#password').type('hassanali123');
    cy.get('#confirmPassword').type('hassanali123');
    cy.get('\#dob').type('2002-08-14');
    cy.get('#gender').select('Male');
    cy.get('# newsletter').check('Yes');
    cy.get('#submit').click();
    cy.contains('Registration successful').should('be.visible');
    cy.contains ('You have been subscribed to the newsletter').should ('be.
       visible ');
 });
});
```