**Documentation and Test Scenario Identification**

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1. Test Plan Outline for Registration Form

## Introduction

This document outlines the test plan for validating the functionality of the online registration form for the website. The form collects user details and should ensure data integrity, proper error handling, and successful data submission.

## Objectives

* Verify that all form fields accept valid inputs.
* Ensure error messages are displayed for invalid inputs.
* Confirm data is successfully submitted upon form completion.
* Validate that password requirements are enforced.
* Ensure the form's layout and functionality are consistent across different browsers and devices.

## Scope

* Functional testing of form fields.
* Validation of error messages for incorrect inputs.
* Cross-browser and cross-device testing.
* Validation of data submission to the server.

## Test Environment

* Browsers: Chrome, Firefox, Safari, Edge.
* Devices: Desktop, Tablet, Mobile.
* Operating Systems: Windows, macOS, Android, iOS.

## Test Data

* Valid and invalid email addresses.
* Passwords meeting and not meeting the criteria.
* Various dates of birth.
* Different gender selections.
* Different newsletter subscription choices.

## Test Scenarios

1. Positive: Successful registration with all valid inputs.
2. Positive: Registration with newsletter subscription.
3. Negative: Registration with an invalid email address.
4. Negative: Registration with a password less than 8 characters.
5. Negative: Mismatched password and confirm password fields.
6. Negative: Missing required fields.

## Test Execution Schedule

* Week 1: Test plan creation and test data preparation.
* Week 2: Test case development and review.
* Week 3: Automated test script development.
* Week 4: Test execution and bug reporting.
* Week 5: Regression testing and final validation.

## Risks and Assumptions

* Assumes stable network connection for server communication.
* Assumes test environment mimics the production environment.
* Risks include potential changes in form design or requirements during the testing phase.

1. Test Cases

## Test Case 1: Successful Registration

**Test Case ID:** TC001  
**Test Case Description:** Verify successful registration with all valid inputs.  
**Preconditions:** The registration form is accessible.  
**Test Steps:**

1. Enter a valid full name.
2. Enter a valid email address.
3. Enter a valid password (at least 8 characters).
4. Enter the same password in the confirm password field.
5. Select a date of birth.
6. Select a gender.
7. Choose "Yes" or "No" for newsletter subscription.
8. Click the "Submit" button. **Expected Results:** Registration is successful, and the user receives a confirmation message.  
   **Post-conditions:** User data is saved in the database.

## Test Case 2: Invalid Email Address

**Test Case ID:** TC002  
**Test Case Description:** Verify that an error message is displayed for an invalid email address.  
**Preconditions:** The registration form is accessible.  
**Test Steps:**

1. Enter a valid full name.
2. Enter an invalid email address.
3. Enter a valid password (at least 8 characters).
4. Enter the same password in the confirm password field.
5. Select a date of birth.
6. Select a gender.
7. Choose "Yes" or "No" for newsletter subscription.
8. Click the "Submit" button. **Expected Results:** An error message "Please enter a valid email address" is displayed.  
   **Post-conditions:** Form is not submitted.

## Test Case 3: Password and Confirm Password Mismatch

**Test Case ID:** TC003  
**Test Case Description:** Verify that an error message is displayed when the password and confirm password fields do not match.  
**Preconditions:** The registration form is accessible.  
**Test Steps:**

1. Enter a valid full name.
2. Enter a valid email address.
3. Enter a valid password (at least 8 characters).
4. Enter a different password in the confirm password field.
5. Select a date of birth.
6. Select a gender.
7. Choose "Yes" or "No" for newsletter subscription.
8. Click the "Submit" button. **Expected Results:** An error message "Passwords do not match" is displayed.  
   **Post-conditions:** Form is not submitted.
9. Scenario Identification

## Positive Scenarios

### Scenario 1: Successful Registration

* + Steps: User enters all valid inputs and submits the form.
  + Expected Outcome: Registration is successful, and a confirmation message is displayed.

### Scenario 2: Registration with Newsletter Subscription

* + Steps: User opts to receive newsletters during registration.
  + Expected Outcome: Registration is successful, and the user is subscribed to the newsletter.

## Negative Scenarios

### Scenario 1: Invalid Email Address

* + Steps: User enters an invalid email address and submits the form.
  + Expected Outcome: An error message "Please enter a valid email address" is displayed, and the form is not submitted.

### Scenario 2: Password and Confirm Password Mismatch

* + Steps: User enters different passwords in the password and confirm password fields and submits the form.
  + Expected Outcome: An error message "Passwords do not match" is displayed, and the form is not submitted.

4. Automated Test Scripts

Here is an example using Cypress for JavaScript:

## Positive Scenario: Successful Registration

describe('Registration Form', () => {

it('should successfully register with valid inputs', () => {

cy.visit('/registration');

cy.get('input[name="fullName"]').type('John Doe');

cy.get('input[name="email"]').type('john.doe@example.com');

cy.get('input[name="password"]').type('Password123');

cy.get('input[name="confirmPassword"]').type('Password123');

cy.get('input[name="dob"]').type('1990-01-01');

cy.get('select[name="gender"]').select('Male');

cy.get('input[name="newsletter"]').check('Yes');

cy.get('button[type="submit"]').click();

cy.contains('Registration successful').should('be.visible');

});

});

## Positive Scenario: Registration with Newsletter Subscription

describe('Registration Form', () => {

it('should successfully register and subscribe to the newsletter', () => {

cy.visit('/registration');

cy.get('input[name="fullName"]').type('Jane Doe');

cy.get('input[name="email"]').type('jane.doe@example.com');

cy.get('input[name="password"]').type('Password123');

cy.get('input[name="confirmPassword"]').type('Password123');

cy.get('input[name="dob"]').type('1990-02-02');

cy.get('select[name="gender"]').select('Female');

cy.get('input[name="newsletter"]').check('Yes');

cy.get('button[type="submit"]').click();

cy.contains('Registration successful').should('be.visible');

});

});

**THE END**