DOCUMENTATION AND TEST SCENARIO IDENTIFICATION

ELITE IT TEAM

SQA ENGINEER TASKS

TASKS:

1. Documentation

2. Scenario Identification

3. Tests Writing

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Contents

Test Plan Outline for Testing the Registration Form

1. Introduction

This test plan outlines the strategy and approach for testing the online registration form on the website. The registration form collects essential information from users and includes several validation checks to ensure data integrity.

2. Objectives

- Ensure the registration form functions correctly.

- Validate that input fields perform proper validations and display appropriate error messages.

- Confirm successful data submission upon correct form completion.

- Verify that the user receives confirmation of successful registration.

3. Scope

- Functional testing of the registration form fields and submit button.

- Validation of error messages for incorrect inputs.

- Verification of successful form submission.

- Testing on various browsers and devices.

4. Test Environment

- Browsers: Chrome, Firefox, Safari, Edge

- Devices: Desktop, Tablet, Mobile

- Testing tools: Cypress, Selenium

5. Test Data

- Valid and invalid combinations of user inputs for Full Name, Email Address, Password, Confirm Password, Date of Birth, Gender, and Newsletter Subscription.

6. Test Scenarios

- Positive scenarios for successful registration.

- Negative scenarios for validation errors.

- Cross-browser and cross-device testing.

7. Test Execution Schedule

- Week 1: Preparation of test plan, test data, and initial test cases.

- Week 2: Execution of positive and negative test cases.

- Week 3: Cross-browser and cross-device testing.

- Week 4: Review and reporting of test results.

8. Risks and Assumptions

- Assumptions: Users have a stable internet connection; the website's server is functioning correctly.

- Risks: Changes in form functionality during testing; delays in bug fixes.

Test Cases

Test Case 1: Valid Registration

Test Case ID: TC01

Test Case Description: Verify that the user can register successfully with valid inputs.

Preconditions: User is on the registration form page.

Test Steps:

1. Enter "Bahadur Khan" in the Full Name field.

2. Enter "bahadurkhan @example.com" in the Email Address field.

3. Enter "Password123" in the Password field.

4. Enter "Password123" in the Confirm Password field.

5. Select "01/01/1990" in the Date of Birth field.

6. Select "Male" in the Gender field.

7. Select "Yes" for Newsletter Subscription.

8. Click the Submit button.

Expected Results: User should see a confirmation message indicating successful registration.

Post-conditions: User's data is stored in the database.

Test Case 2: Password Mismatch

Test Case ID: TC02

Test Case Description: Verify that the user receives an error message when passwords do not match.

Preconditions: User is on the registration form page.

Test Steps:

1. Enter "Ali Khan" in the Full Name field.

2. Enter "Alikhan@example.com" in the Email Address field.

3. Enter "Password123" in the Password field.

4. Enter "Password124" in the Confirm Password field.

5. Select "02/02/1992" in the Date of Birth field.

6. Select "Female" in the Gender field.

7. Select "No" for Newsletter Subscription.

8. Click the Submit button.

Expected Results: User should see an error message indicating that the passwords do not match.

Post-conditions: Form is not submitted, and user remains on the registration page.

Test Case 3: Invalid Email Format

Test Case ID: TC03

Test Case Description: Verify that the user receives an error message for an invalid email format.

Preconditions: User is on the registration form page.

Test Steps:

1. Enter "ahmed" in the Full Name field.

2. Enter "ahmed@com" in the Email Address field.

3. Enter "Password123" in the Password field.

4. Enter "Password123" in the Confirm Password field.

5. Select "03/03/1993" in the Date of Birth field.

6. Select "Other" in the Gender field.

7. Select "Yes" for Newsletter Subscription.

8. Click the Submit button.

Expected Results: User should see an error message indicating an invalid email format.

Post-conditions: Form is not submitted, and user remains on the registration page.

Scenario Identification

Positive Scenarios

Scenario 1: Valid Registration

- Steps: Enter valid Full Name, Email Address, Password, Confirm Password, Date of Birth, Gender, and select Newsletter Subscription. Click Submit.

- Expected Outcome: Successful registration confirmation.

Scenario 2: Optional Newsletter Subscription

- Steps: Enter valid Full Name, Email Address, Password, Confirm Password, Date of Birth, Gender, and select "No" for Newsletter Subscription. Click Submit.

- Expected Outcome: Successful registration confirmation.

Negative Scenarios

Scenario 1: Password Mismatch

- Steps: Enter valid Full Name, Email Address, different Password and Confirm Password, Date of Birth, Gender, and select Newsletter Subscription. Click Submit.

- Expected Outcome: Error message indicating passwords do not match.

Scenario 2: Invalid Email Format

- Steps: Enter valid Full Name, invalid Email Address format, Password, Confirm Password, Date of Birth, Gender, and select Newsletter Subscription. Click Submit.

- Expected Outcome: Error message indicating invalid email format.

Automated Test Scripts (Cypress for JavaScript)

```javascript
// Valid Registration Test Script

describe('Registration Form - Positive Scenario', () => {

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

cy.visit('/register');

cy.get('input[name="full_name"]').type('Bahadur Khan');

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

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

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

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

cy.get('input[name="gender"][value="Male"]').check();

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

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

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

});

});


// Password Mismatch Test Script

describe('Registration Form - Negative Scenario', () => {

it('should display an error message for password mismatch', () => {

cy.visit('/register');

cy.get('input[name="full_name"]').type('Ali Khan');

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

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

cy.get('input[name="confirm_password"]').type('Password124');

cy.get('input[name="dob"]').type('1992-02-02');
```

```
cy.get('input[name="gender"][value="Female"]').check();

cy.get('input[name="newsletter"][value="No"]').check();

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

cy.contains('Passwords do not match').should('be.visible');

});

});
```

Submission

The above test plan, test cases, scenario identification, and automated test scripts provide a comprehensive approach to testing the registration form. These documents ensure that all aspects of the registration process are thoroughly validated, from input validation to successful submission. The Cypress test scripts cover key functionalities, ensuring robust testing and quality assurance for the registration form.