**Tasks**

**a. Test Plan outline for Testing the Registration Form. Include the following sections**

**Introduction:** This document oultines the testing strategy for a online registration form for website making sure that it validates the user data correctly.

**Objectives:**

* Validates all the inputs of the form.
* Makes sure that if error occurs then displays error message .
* Verify that the data is successfully submitted to the server.

**Scope:**

* **Functional Testing:** Validate forms input, submission and error messages.
* **Usability Testing:** checks user interface for ease of use and displays error messages clearly.
* **Compatibility Testing :** Checks the browsers compatibility.
* **Security Testing:** Verifies that passwords and data is protected.

**Test Environment:**

* **Browsers:** Chrome, Edge, Firefox.
* **OS:** Windows, Mac, Linux.
* **Devices:** Desktop, mobile, tablet.

**Test Data**:

* Email adresses which are valid and unvalid.
* Passwords of different lengths.
* Different dates of births.
* Gender options.
* NewsLetter options.

**Test Scenarios**:

* Successful form Submission.
* Invalid email address( error message).
* Mismatch between password and confirm password fields (error message).
* Gender not selected ( error message).
* Form submission without newsletter subscription.

**Test Execution Schedule**:

* First Week : Test planning and Requirement analysis.
* Second Week : Creation of Test Cases.
* Third Week : Test data and environment setup.
* Fourth Week : Execution of test.
* Fifth Week : Test reporting and closure.

**Risks and Assumptions**:

* **Risks:**

1. Browser compatibility Issues.
2. When server is down.

* **Assumptions:**

1. Development team fixing defects promptly.
2. Test environment is stable.

**b. Test Cases for Three Scenarios covering different aspects of the registration form.**

**Test Case 1: Successful Form Submission**

* **Test Case ID : T01**
* **Description**: Make sure that form is sbumitted with valid inputs.
* **Preconditions**: The registration form is displayed.
* **Steps**:
  1. Enter valid name.
  2. Enter valid email address.
  3. Enter valid password.
  4. Enter similar password in confirm password field.
  5. Enter Valid date of birth.
  6. Selects gender and newsletter subscription.
  7. Click submit.
* **Expected Results**: Submits successfully message is displayed.
* **Post Condition** : User is registered successfully and data is sent to the server.

**Test Case 2: Invalid Email Address**

* **Test Case ID : T02**
* **Description**: It displays an error message if Invalid email address is entered.
* **Preconditions**: Registration form is displayed.
* **Steps**:
  1. Enter valid name.
  2. Enter valid email address( Invalid address entered).
  3. Enter valid password.
  4. Enter similar password in confirm password field.
  5. Enter Valid date of birth.
  6. Selects gender and newsletter subscription.
  7. Click submit.
* **Expected Results**: Displays error message “ Please enter a valid email address”.
* **Post Condition** : The form is not submitted due to error.

**Test Case 3: Password Mismatch**

* **Test Case ID : T03**
* **Description**: Verify that error message displays for the password and confirm password fields mismatch.
* **Preconditions**: Registration form is displayed.
* **Steps**:
  1. Enter valid name.
  2. Enter valid email address.
  3. Enter valid password.
  4. Enter similar password in confirm password field(different password entered in this field).
  5. Enter Valid date of birth.
  6. Selects gender and newsletter subscription.
  7. Click submit.
* **Expected Results**: Error message "Passwords do not match" is displayed.

**Task: Scenario Identification**

**Positive Scenarios**

* **Positive Scenario 1:** Successful form submission
* **Steps**:
  1. Enter valid name.
  2. Enter valid email address.
  3. Enter valid password.
  4. Enter similar password in confirm password field.
  5. Enter Valid date of birth.
  6. Selects gender and newsletter subscription.
  7. Click submit.
* **Expected Outcome**: Forem submits successfully.
* **Positive Scenario 2:** Submission without Newsletter
* **Steps**:
  1. Enter valid name.
  2. Enter valid email address.
  3. Enter valid password.
  4. Enter similar password in confirm password field.
  5. Enter Valid date of birth.
  6. Selects gender without newsletter subscription.
  7. Click submit.
* **Expected Outcome**: Form submits successfully without subscription.

**Negative Scenarios**

* **Negative Scenario 1:** Invalid Email Address
* **Steps**:
  1. Enter valid name.
  2. Enter valid email address ( invalid email address entered).
  3. Enter valid password.
  4. Enter similar password in confirm password field.
  5. Enter Valid date of birth.
  6. Selects gender and newsletter subscription.
  7. Click submit.
* **Expected Outcome**: Form not submitted because of error message for invalid email address is displayed.
* **Negative Scenario 2:** Password Mismatch
* **Steps**:
  1. Enter valid name.
  2. Enter valid email address.
  3. Enter valid password.
  4. Enter similar password in confirm password field( password entered is not similar).
  5. Enter Valid date of birth.
  6. Selects gender and newsletter subscription.
  7. Click submit.
* **Expected Outcome**: Form not submitted because of error message for password mismatch.

**Task: Test Writing**

File is attached for both cases.