**Registration Form Test Plan**

**Test Plan Outline**

**1. Introduction**

This test plan outlines the strategy and approach for testing the online registration form of the website. The form is designed to collect user information such as Full Name, Email Address, Password, Confirm Password, Date of Birth, Gender, and Newsletter Subscription preference. It validates inputs, displays error messages for invalid entries, and submits the data to the server upon correct completion.

**2. Objectives**

- Ensure the registration form functions correctly and meets all specified requirements.

- Validate that all input fields accept and handle data appropriately.

- Verify that error messages are displayed for invalid or missing inputs.

- Confirm that data is successfully submitted to the server upon correct form completion.

- Ensure the user experience is smooth and intuitive.

**3. Scope**

- Functional testing of all input fields and the submit button.

- Validation of input constraints (e.g., password length, email format).

- Verification of error messages.

- Testing of successful data submission.

- Cross-browser compatibility testing.

- Testing on various devices (desktop, tablet, mobile).

**4. Test Environment**

- Operating Systems: Windows, macOS, iOS, Android

- Browsers: Chrome, Firefox, Safari, Edge

- Devices: Desktop computers, laptops, tablets, smartphones

- Network: Stable internet connection

**5. Test Data**

- Valid and invalid names, email addresses, and passwords

- Various combinations of Date of Birth (valid and invalid dates)

- Different gender options

- Different newsletter subscription preferences

**6. Test Scenarios**

**6.1 Functional Testing**

- Verify that all fields are present on the form.

- Validate that the Full Name field accepts text input.

- Validate the Email Address field for correct email format.

- Ensure the Password field requires at least 8 characters.

- Confirm that the Confirm Password field matches the Password field.

- Validate that the Date of Birth field accepts valid dates.

- Verify that the Gender field allows selection from Male, Female, or Other.

- Test the Newsletter Subscription field for Yes/No options.

- Verify that the Submit Button is clickable and functional.

**6.2 Input Validation**

- Check the error message for empty Full Name field.

- Check the error message for invalid Email Address format.

- Verify error message for Password less than 8 characters.

- Verify error message for mismatched Confirm Password field.

- Check the error message for invalid Date of Birth.

- Verify that the Gender field requires a selection.

- Ensure no error message is displayed for optional Newsletter Subscription field.

**6.3 Form Submission**

- Test form submission with all valid inputs.

- Verify server response for successful form submission.

- Ensure form data is correctly saved in the database.

**6.4 Cross-browser and Cross-device Testing**

- Test the registration form on different browsers (Chrome, Firefox, Safari, Edge).

- Test the form on different devices (desktop, tablet, mobile).

**7. Test Execution Schedule**

- Week 1: Prepare test environment and test data

- Week 2: Perform functional and input validation testing

- Week 3: Conduct form submission and cross-browser testing

- Week 4: Execute cross-device testing and finalize test report

**Risks and Assumptions**

**Risks**

- Potential delays due to unexpected technical issues.

- Incomplete test coverage due to time constraints.

- Changes in requirements during the testing phase.

**Assumptions**

- All required functionalities are implemented and accessible.

- Test environment is stable and mirrors the production environment.

- Necessary tools and resources are available for testing.