**Test Plan Document: Registration Page**

**Objective**:

The objective of this test plan is to ensure that the registration page functions correctly and efficiently, adhering to the specified requirements and conditions for each mandatory input field.

**Scope**:

This test plan covers the testing of the registration page, focusing on validating the input fields and their respective conditions. It includes testing of the name, phone number, email address, user ID, password fields, as well as the functionality of the submit, cancel, and clear buttons.

**Test Scenarios**:

| **Scenario Description** | **Test Data/Steps** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| --- | --- | --- | --- | --- |
| Verify name input field allows a minimum of 3 characters | Enter a name with 3 characters | Name field accepts input |  |  |
| Verify name input field allows a maximum of 25 characters | Enter a name with 25 characters | Name field accepts input |  |  |
| Verify name input field does not accept special characters | Enter a name with special characters | Name field shows error message |  |  |
| Verify error message is displayed if the name field is left blank | Leave the name field blank | Name field shows error message |  |  |
| Verify phone number input field accepts '0' as the starting digit | Enter a phone number starting with 0 | Phone number field accepts input |  |  |
| Verify phone number input field accepts '+' followed by digits | Enter a valid phone number | Phone number field accepts input |  |  |
| Verify phone number input field rejects alphabets and special characters | Enter alphabets or special characters | Phone number field shows error message |  |  |
| Verify error message is displayed if the phone number field is left blank | Leave the phone number field blank | Phone number field shows error message |  |  |
| Verify email address input field accepts valid email addresses | Enter a valid email address | Email address field accepts input |  |  |
| Verify email address input field rejects invalid email formats | Enter an invalid email address | Email address field shows error message |  |  |
| Verify error message is displayed if the email address field is left blank | Leave the email address field blank | Email address field shows error message |  |  |
| Verify user ID input field allows a minimum of 5 characters | Enter a user ID with 5 characters | User ID field accepts input |  |  |
| Verify user ID input field allows a maximum of 8 characters | Enter a user ID with 8 characters | User ID field accepts input |  |  |
| Verify error message is displayed if the user ID field is left blank | Leave the user ID field blank | User ID field shows error message |  |  |
| Verify password input field allows a minimum of 4 characters | Enter a password with 4 characters | Password field accepts input |  |  |
| Verify password input field allows a maximum of 10 characters | Enter a password with 10 characters | Password field accepts input |  |  |
| Verify password input field contains at least one special character | Enter a password with a special character | Password field accepts input |  |  |
| Verify password input field contains at least one capital letter | Enter a password with a capital letter | Password field accepts input |  |  |
| Verify error message is displayed if the password field is left blank | Leave the password field blank | Password field shows error message |  |  |
| Verify submit button successfully registers the user | Fill all fields with valid data and click Submit | Form submits successfully |  |  |
| Verify submit button displays appropriate error messages | Fill some or all fields with invalid data and click Submit | Form shows error messages and does not submit |  |  |
| Verify cancel button functionality | Click the cancel button | Redirects the user to the previous page or clears all fields and returns to the initial state |  |  |
| Verify clear button functionality | Click the clear button | Clears all input fields above |  |  |

**Test Execution:**

**1. Manual Testing**:

- Perform manual testing of each test scenario mentioned above.

- Document the test results, including any observed deviations or defects.

**2. Automated Testing (Optional)**:

- If applicable, automate the testing process using suitable automation tools.

- Create test scripts to validate the functionality of each input field and button.

**Test Data:**

- Prepare test data covering boundary conditions and valid/invalid inputs for each input field.

- Utilize different combinations of data to ensure comprehensive testing coverage.

**Test Environment:**

- Ensure that the testing environment replicates the production environment as closely as possible.

- Use appropriate browsers and devices for testing compatibility.

**Test Reporting**:

- Record and report all test results, including passed tests, failed tests, and any defects identified during testing.

- Document any suggestions or recommendations for improvement.

**Conclusion**:

Upon completion of testing, ensure that all requirements have been met satisfactorily and that the registration page functions correctly according to the specified conditions. Any defects or issues identified should be documented and addressed promptly to ensure the reliability and usability of the registration functionality.