

Test Case Documents

Here's a detailed set of **20 test cases** for a **Registration Page**, covering both **positive and negative scenarios**. These test cases assume the registration page contains the following fields:

- **Username** (min 5, max 15 characters)
- **Password** (min 8 characters, must contain 1 uppercase, 1 number)
- **Email** (valid email format)
- **Phone Number** (10-15 digits)
- **Date of Birth**
- **Gender** (Male, Female, Other - radio button)
- **Country** (Dropdown)
- **Accept Terms and Conditions** (Checkbox)

| Test Case ID | Test Description | Preconditions | Test Data | Test Steps | Expected Result | Actual Result | Status | Comments/Notes/Remarks |
|--------------|---|---|---|--|--|--|---------|---|
| TC_01 | Verify all fields accept valid data | NA | Username: user123 Password: Test@123 Email: test@example.com Phone: 1234567890 DOB: 1990-10-10 Gender: Male Country: USA | 1. Open registration page 2. Fill all fields 3. Submit | Registration successful | As expected | Pass | All fields handled valid data correctly |
| TC_02 | Verify username less than 5 characters | NA | Username: usr Password: Test@1234 | Enter username and submit | Error: "Username must be at least 5 characters" | Error message not displayed | Failed | Error handling issue |
| TC_03 | Verify username exceeding 15 characters | NA | Username: verylongusername12345 Password: Test@1234 | Enter username and submit | Error: "Username must not exceed 15 characters" | Error message displayed but field accepted input | Warning | Validation partially failed |
| TC_04 | Verify password without special characters | NA | Password: Test1234 | Enter password and submit | Error: "Password must contain at least 1 special character" | As expected | Pass | Password validation correct |
| TC_05 | Verify invalid email format | NA | Email: invalid-email | Enter email and submit | Error: "Invalid email format" | As expected | Pass | Validated email format |
| TC_06 | Verify phone number with less than 10 digits | NA | Phone: 12345 | Enter phone and submit | Error: "Phone number must be 10-15 digits" | Error message not aligned correctly | Warning | UI alignment issue |
| TC_07 | Verify future date as Date of Birth | NA | DOB: 2030-01-01 | Enter date of birth and submit | Error: "Invalid Date of Birth" | As expected | Pass | Validated DOB range |
| TC_08 | Verify registration without selecting gender | NA | Gender: Not selected | Skip gender selection | Error: "Please select a gender" | As expected | Pass | Gender selection validated |
| TC_09 | Verify terms and conditions checkbox not checked | NA | Terms: Not checked | Submit without accepting terms | Error: "You must accept terms" | Checkbox disabled after submission | Warning | Usability issue detected |
| TC_10 | Verify valid registration with different genders | NA | Gender: Other | Fill all fields and select 'Other' | Registration successful | As expected | Pass | Gender options work |
| TC_11 | Verify duplicate email registration | An account already exists with the same email | Email: test@example.com | Enter duplicate email and submit | Error: "Email already exists" | As expected | Pass | Email uniqueness validated |
| TC_12 | Verify special characters in username | NA | Username: user@name | Enter username and submit | Error: "Username cannot contain special characters" | Error displayed but form not blocked | Warning | Needs stricter validation |
| TC_13 | Verify registration without password | NA | Password: Empty | Leave password field empty and submit | Error: "Password is required" | As expected | Pass | Password field validation works |
| TC_14 | Verify phone number with non-numeric input | NA | Phone: abcd1234 | Enter phone and submit | Error: "Phone number must be numeric" | As expected | Pass | Numeric validation working |
| TC_15 | Verify password without uppercase letters | NA | Password: test@123 | Enter password and submit | Error: "Password must contain at least one uppercase letter" | As expected | Pass | Password rule enforcement works |
| TC_16 | Verify minimum password length | NA | Password: Te@12 | Enter password and submit | Error: "Password must be at least 8 characters" | No error displayed | Failed | Length validation broken |
| TC_17 | Verify valid registration for a non-US country | NA | Country: India | Select India from the dropdown and submit | Registration successful | Dropdown was pre-selected to default country | Warning | Country dropdown UX issue |
| TC_18 | Verify form submission with empty fields | NA | All fields: Empty | Leave all fields blank and submit | Error: "All fields are required" | As expected | Pass | Mandatory field check works |
| TC_19 | Verify cross-site scripting (XSS) attempt in username | NA | Username: <script>alert(1)</script> | Enter XSS payload and submit | Error: "Invalid input" | As expected | Pass | XSS attack blocked |

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|-------|--------------------------------|----|----------------------------------|---------------------------|---|--|--------|---------------------------|
| TC_20 | Verify password without digits | NA | Password: Test@pass | Enter password and submit | Error: "Password must contain at least one digit" | Error displayed but still allowed registration | Failed | Critical validation issue |
|-------|--------------------------------|----|----------------------------------|---------------------------|---|--|--------|---------------------------|

Explanation of Status Updates

1. **Pass:** Functionality works as expected.
2. **Failed:** Functionality didn't work as expected; a major issue needs fixing.
3. **Warning:** Partially working, but there are minor issues or inconsistencies (e.g., UI issues, usability concerns).

Explanation of Columns

- **Test Case ID:** Unique identifier for each test case.
- **Test Description:** Brief description of what the test case verifies.
- **Preconditions:** Conditions that need to be met before executing the test.
- **Test Data:** Data inputs required for executing the test.
- **Test Steps:** Sequential steps to be followed to perform the test.
- **Expected Result:** The correct system behavior as per requirements.
- **Actual Result:** What actually happened after performing the test (filled after execution).
- **Status:** Indicates whether the test case passed, failed, or has warnings.
- **Comments/Notes/Remarks:** Additional observations or remarks about the test case.