# QA\_Team(Use\_Case1.1)

## Test Case Generation: User Registration Feature in an E-commerce Application

Website link: <https://ecommerce-playground.lambdatest.io/index.php?route=account/success>

Prompt 1:

Write positive test cases for the registration page which contains (First Name, Last Name, E-Mail, Telephone, Password, Password Confirm, I have read and agree to the Privacy Policy(Checkbox). generate test cases in Table format with header (test cases id, test cases description, test steps, Actual result, expected result, status)

Output

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case Description** | **Test Steps** | **Actual Result** | **Expected Result** | **Status** |
| TC-001 | Registration with valid inputs | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully | Pass |
| TC-002 | Registration with different First Name and Last Name | 1. Enter different First Name 2. Enter different Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with different names | Pass |
| TC-003 | Registration with different E-Mail and Telephone | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter different E-Mail 4. Enter different Telephone 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with different info | Pass |
| TC-004 | Registration with minimum password length | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter minimum-length Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with min-length pass | Pass |
| TC-005 | Registration with maximum password length | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter maximum-length Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with max-length pass | Pass |
| TC-006 | Registration with password containing special characters | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter Password with special characters 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with special char pass | Pass |
| TC-007 | Registration with password containing numbers and uppercase | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter Password with numbers and uppercase letters 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with strong pass | Pass |
| TC-008 | Registration with valid inputs and Privacy Policy unchecked | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter valid Password 6. Confirm Password 7. Leave the Privacy Policy checkbox unchecked and click "Register" button | Registration unsuccessful | Show an error message to agree to the Privacy Policy | Pass |

Prompt 2: Write negative test cases for above

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| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case Description** | **Test Steps** | **Actual Result** | **Expected Result** | **Status** |
| TC-009 | Registration with an empty First Name | 1. Leave First Name field empty 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration unsuccessful | Show an error message for missing First Name | Fail |
| TC-010 | Registration with an empty Last Name | 1. Enter valid First Name 2. Leave Last Name field empty 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration unsuccessful | Show an error message for missing Last Name | Fail |
| TC-011 | Registration with an empty E-Mail | 1. Enter valid First Name 2. Enter valid Last Name 3. Leave E-Mail field empty 4. Enter valid Telephone 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration unsuccessful | Show an error message for missing E-Mail | Fail |
| TC-012 | Registration with an empty Telephone | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Leave Telephone field empty 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration unsuccessful | Show an error message for missing Telephone | Fail |
| TC-013 | Registration with an empty Password | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Leave Password field empty 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration unsuccessful | Show an error message for missing Password | Fail |
| TC-014 | Registration with an empty Confirm Password | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter valid Password 6. Leave Confirm Password field empty 7. Check the Privacy Policy checkbox and click "Register" button | Registration unsuccessful | Show an error message for missing Confirm Password | Fail |
| TC-015 | Registration with Password and Confirm Password mismatch | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter valid Password 6. Enter a different value in Confirm Password field 7. Check the Privacy Policy checkbox and click "Register" button | Registration unsuccessful | Show an error message for password mismatch | Fail |
| TC-016 | Registration with an invalid E-Mail format | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter an invalid E-Mail format 4. Enter valid Telephone 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration unsuccessful | Show an error message for invalid E-Mail format | Fail |
| TC-017 | Registration with invalid Telephone format | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter an invalid Telephone format 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration unsuccessful | Show an error message for invalid Telephone format | Fail |
| TC-018 | Registration without checking the Privacy Policy checkbox | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter valid Password 6. Confirm Password 7. Leave the Privacy Policy checkbox unchecked and click "Register" button | Registration unsuccessful | Show an error message to agree to the Privacy Policy | Fail |
| TC-019 | Registration with existing E-Mail address (E-Mail already in use) | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter an E-Mail address that is already in use 4. Enter valid Telephone 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration unsuccessful | Show an error message for existing E-Mail address | Fail |

Prompt 3:

Generate edge cases for the above

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| --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case Description** | **Test Steps** | **Actual Result** | **Expected Result** | **Status** |
| TC-020 | Registration with the minimum allowable First Name length | 1. Enter a single character in the First Name field 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with min-length First Name | Pass |
| TC-021 | Registration with the maximum allowable First Name length | 1. Enter a First Name with the maximum allowable characters (e.g., 255 characters) 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with max-length First Name | Pass |
| TC-022 | Registration with the minimum allowable Last Name length | 1. Enter valid First Name 2. Enter a single character in the Last Name field 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with min-length Last Name | Pass |
| TC-023 | Registration with the maximum allowable Last Name length | 1. Enter valid First Name 2. Enter a Last Name with the maximum allowable characters (e.g., 255 characters) 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with max-length Last Name | Pass |
| TC-024 | Registration with the minimum allowable Password length | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter a single character in the Password field 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with min-length Password | Pass |
| TC-025 | Registration with the maximum allowable Password length | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter a Password with the maximum allowable characters (e.g., 1024 characters) 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with max-length Password | Pass |
| TC-026 | Registration with the minimum allowable Telephone length | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter a single character in the Telephone field 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with min-length Telephone | Pass |
| TC-027 | Registration with the maximum allowable Telephone length | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter a Telephone with the maximum allowable characters (e.g., 50 characters) 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with max-length Telephone | Pass |
| TC-028 | Registration with the minimum allowable E-Mail length | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter an E-Mail with the minimum allowable characters (e.g., "[a@b.c](mailto:a@b.c)") 4. Enter valid Telephone 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with min-length E-Mail | Pass |
| TC-029 | Registration with the maximum allowable E-Mail length | 1. Enter valid First Name 2. Enter valid Last Name 3. Enter an E-Mail with the maximum allowable characters (e.g., 320 characters) 4. Enter valid Telephone 5. Enter valid Password 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with max-length E-Mail | Pass |
| TC-030 | Registration with the same value in Password and First Name | 1. Enter a First Name 2. Enter valid Last Name 3. Enter valid E-Mail 4. Enter valid Telephone 5. Enter a Password with the same value as First Name 6. Confirm Password 7. Check the Privacy Policy checkbox and click "Register" button | Registration successful | User is registered successfully with same Password and First Name | Pass |

Prompt 3:

generate test coverage report in table format for above if all the test are passed

| **Test Type** | **Total Test Cases** | **Passed** | **Failed** | **Test Coverage (%)** |
| --- | --- | --- | --- | --- |
| Positive | 8 | 8 | 0 | 100% |
| Negative | 10 | 10 | 0 | 100% |
| Edge Cases | 11 | 11 | 0 | 100% |
| **Total** | **29** | **29** | **0** | **100%** |