

High-level test case

1. User name
 - a. Happy path
 - i. Use a unique login
 - b. Sad path
 - i. Use the same login
 - c. Use a unique login:
 - i. Boundary range 1,2,8,9
 1. Lack of whitespace and Polish characters
 - a. Test case 1: Verify that the login field accepts a minimum of 2 characters.
 - b. Test case 2: Verify that the login field accepts a maximum of 8 characters.
 - c. Test case 3: Verify that the login field does not accept less than 2 characters (1 character)
 - d. Test case 4: Verify that the login field does not accept more than 8 characters (9 characters).
 2. No whitespace characters and 1 Polish character
 - a. Test case 1: Verify that the login field accepts a minimum of 2 characters.
 - b. Test case 2: Verify that the login field accepts a maximum of 8 characters.
 - c. Test case 3: Verify that the login field does not accept less than 2 characters (1 character)
 - d. Test case 4: Verify that the login field does not accept more than 8 characters (9 characters).
 3. 1 whitespace and no Polish characters
 - a. Test case 1: Verify that the login field accepts a minimum of 2 characters.
 - b. Test case 2: Verify that the login field accepts a maximum of 8 characters.
 - c. Test case 3: Verify that the login field does not accept less than 2 characters (1 character)
 - d. Test case 4: Verify that the login field does not accept more than 8 characters (9 characters).
 4. 1 white mark and 1 Polish mark
 - a. Test case 1: Verify that the login field accepts a minimum of 2 characters.
 - b. Test case 2: Verify that the login field accepts a maximum of 8 characters.
 - c. Test case 3: Verify that the login field does not accept less than 2 characters (1 character)
 - d. Test case 4: Verify that the login field does not accept more than 8 characters (9 characters).
 - ii. Equilibrium ranges
 1. [2,8], and no whitespace or Polish characters
 2. [0,1], [9,+] and no whitespace or Polish characters

3. [0,1], [9,+] and no whitespace characters
4. [0,1], [9,+] and no Polish characters

2. Email address

- a. **Valid email address:** Enter a valid email address with correct format, such as "test@test.com". Verify that the email is accepted and no error message is displayed.
- b. **Invalid email address format:** Enter an email address with incorrect format, such as "test.com" or "test@test". Verify that an error message is displayed indicating that the email address is not in the correct format.
- c. **Empty email address:** Leave the email address field blank and submit the form. Verify that an error message is displayed indicating that the email address is required.
- d. **Email address with spaces:** Enter an email address with spaces before or after the text. Verify that the email is not accepted and an error message is displayed indicating that the email cannot contain spaces.
- e. **Duplicate email address:** Enter an email address that is already registered. Verify that an error message is displayed indicating that the email address is already in use.
- f. **Email address with non-ASCII characters:** Enter an email address with non-ASCII characters, such as Chinese characters or emojis. Verify that the email is accepted and no error message is displayed.
- g. **Email address with special characters:** Enter an email address with special characters, such as "&" or "%". Verify that the email is accepted and no error message is displayed.
- h. **Email address with upper and lower case letters:** Enter an email address with mixed upper and lower case letters. Verify that the email is accepted and no error message is displayed.

1. Password

- a. **Happy path**
 - i. Test case 7: Verify that the password field accepts a minimum of 20 characters.
 - ii. Test case 8: Verify that the password field accepts at least one lowercase letter, one uppercase letter, one digit, and one special character.
- b. **Sad path**
 - i. Test case 9: Verify that the password field does not accept less than 20 characters (19 characters).
 - ii. Test case 10: Verify that the password field does not accept a password that does not contain at least one lowercase letter, one uppercase letter, one digit, and one special character.
 - iii. [Pairwise testing table link](#)

	Letter	Number	Special	Passwd length
1	0 lowercase	0	0	0-19
2	0 lowercase	0	0	20+
3	0 lowercase	0	%	0-19
4	0 lowercase	0	%	20+
5	0 lowercase	1	0	0-19

6	0 lowercase	1	0	20+
7	0 lowercase	1	%	0-19
8	0 lowercase	1	%	20+
9	1 lowecase	0	0	0-19
10	1 lowecase	0	0	20+
11	1 lowecase	0	%	0-19
12	1 lowecase	0	%	20+
13	1 lowecase	1	0	0-19
14	1 lowecase	1	0	20+
15	1 lowecase	1	%	0-19
16	1 lowecase	1	%	20+
17	0 uppercase	0	0	0-19
18	0 uppercase	0	0	20+
19	0 uppercase	0	%	0-19
20	0 uppercase	0	%	20+
21	0 uppercase	1	0	0-19
22	0 uppercase	1	0	20+
23	0 uppercase	1	%	0-19
24	0 uppercase	1	%	20+
25	1 uppercase	0	0	0-19
26	1 uppercase	0	0	20+
27	1 uppercase	0	%	0-19
28	1 uppercase	0	%	20+
29	1 uppercase	1	0	0-19
30	1 uppercase	1	0	20+
31	1 uppercase	1	%	0-19
32	1 uppercase	1	%	20+

2. Repeat the password

- a. Valid Input Test Case: Enter the same password in both the "password" and "repeat password" fields. Verify that the registration is successful.
- b. Invalid Input Test Case: Enter a different password in the "repeat password" field as compared to the "password" field. Verify that the registration fails with an appropriate error message.
- c. Boundary Value Test Case:
 - i. Enter the minimum length password (20 characters) in the "password" field and the same password in the "repeat password" field. Verify that the registration is successful.
 - ii. Enter the maximum length password (100 characters) in the "password" field and the same password in the "repeat password" field. Verify that the registration is successful.

- iii. Enter the less than 20 characters length password (19 characters) in the "password" field and the same password in the "repeat password" field. Verify that the registration is successful.
 - d. Invalid input test case
 - i. Invalid Input Test Case: Leave the "repeat password" field empty and submit the registration form. Verify that the registration fails with an appropriate error message.
 - ii. Enter a blank space before the password in the "repeat password" field and submit the registration form. Verify that the registration fails with an appropriate error message.
 - iii. Enter a password with all characters as spaces in the "password" field and the same password in the "repeat password" field. Verify that the registration fails with an appropriate error message
 - iv. Enter a password with all characters as special characters in the "password" field and the same password in the "repeat password" field. Verify that the registration fails with an appropriate error message.
- 3. Accept terms and conditions
 - a. Happy paths
 - i. Verify that the checkbox for accepting the terms and agreements is unchecked by default.
 - ii. Verify that the checkbox for accepting the terms and agreements can be checked.
 - iii. Verify that the registration process can proceed if the checkbox for accepting the terms and agreements is checked.
 - iv. Verify that the terms and agreements can be viewed by clicking on a link or button.
 - v. Verify that the terms and agreements are displayed in a readable format.
 - vi. Verify that the terms and agreements are up-to-date and relevant to the current version of the application.
 - b. Orchard paths
 - i. Verify that the registration process cannot proceed if the checkbox for accepting the terms and agreements is unchecked.
 - ii. Verify that an error message is displayed if the user tries to register without accepting the terms and agreements.
 - iii.
- 4. Register
 - a. Happy paths:
 - i. Verify that the button is enabled only when all the required fields (user name, email address, password, repeat password, and acceptance of terms and agreements) are filled in correctly.
 - ii. Verify that clicking the "register user" button creates a new user account and redirects the user to the login page.
 - iii. Verify that if any of the required fields are empty, clicking the "register user" button shows an error message indicating which fields need to be filled in.
 - b. Sad path

- i. Verify that if the user name is already taken, clicking the "register user" button shows an error message indicating that the user name is already in use.