

1. Login Functionality

Test Case 1.1: Successful Login (Happy Path)

Preconditions: User is signed up.

Steps:

1. Navigate to the login page.
2. Enter a valid email in the email field.
3. Enter a valid password in the password field.
4. Click the "Submit" button.

Expected Result: User is successfully logged in and redirected to the dashboard.

Test Case 1.2: Login with Invalid Email Format (Negative)

Preconditions: None.

Steps:

1. Navigate to the login page.
2. Enter an invalid email (e.g., "invalidEmail") in the email field.
3. Enter a valid password in the password field.
4. Click the "Submit" button.

Expected Result: An error message "Invalid email format" is displayed.

Test Case 1.3: Login with Incorrect Password (Negative)

Preconditions: None

Steps:

1. Navigate to the login page.
2. Enter a valid email in the email field.
3. Enter an incorrect password in the password field.
4. Click the "Submit" button.

Expected Result: An error message "Incorrect password" is displayed.

Test Case 1.4: Login with Unregistered Email (Negative)

Preconditions: Email is not registered.

Steps:

1. Navigate to the login page.
2. Enter an unregistered email in the email field.
3. Enter a valid password in the password field.

4. Click the "Submit" button.

Expected Result: An error message "Email not found" is displayed.

Test Case 1.5: Login with Empty Fields (Negative)

Preconditions: None.

Steps:

1. Navigate to the login page.
2. Leave both the email and password fields empty.
3. Click the "Submit" button.

Expected Result: An error message "Email and Password are required" is displayed.

2. Sign Up Functionality

Test Case 2.1: Successful Sign Up (Happy Path)

Preconditions: User is not registered.

Steps:

1. Navigate to the login page.
2. Click the "Sign up" button.
3. Fill in the required fields on the sign-up page.
4. Click the "Submit" button.

Expected Result: User is successfully registered and redirected to the login page.

Test Case 2.2: Sign Up with Existing Email (Negative)

Preconditions: Email is already registered.

Steps:

1. Navigate to the login page.
2. Click the "Sign up" button.
3. Fill in the required fields with an email that is already registered.
4. Click the "Submit" button.

Expected Result: An error message "Email is already registered" is displayed.

Test Case 2.3: Sign Up with Invalid Email Format (Negative)

Preconditions: None.

Steps:

1. Navigate to the login page.

2. Click the "Sign up" button.
3. Fill in the required fields with an invalid email format.
4. Click the "Submit" button.

Expected Result: An error message "Invalid email format" is displayed.

Test Case 2.4: Sign Up with Weak Password (Negative)

Preconditions: None.

Steps:

1. Navigate to the login page.
2. Click the "Sign up" button.
3. Fill in the required fields with a weak password.
4. Click the "Submit" button.

Expected Result: An error message "Password is too weak" is displayed.

Test Case 2.5: Sign Up with Empty Fields (Negative)

Preconditions: None.

Steps:

1. Navigate to the login page.
2. Click the "Sign up" button.
3. Leave some required fields empty.
4. Click the "Submit" button.

Expected Result: An error message "All fields are required" is displayed.

3. Contacts Functionality

Test Case 3.1: Successful Logout (Happy Path)

Preconditions: User is logged in.

Steps:

1. Navigate to the "Contact List" page.
2. Click the "Logout" button.

Expected Result: User is logged out and redirected to the login page.

Test Case 3.2: Navigate to Add Contact Page (Happy Path)

Preconditions: User is logged in.

Steps:

1. Navigate to the "Contact List" page.
2. Click the "Add a New Contact" button.

Expected Result: User is redirected to the "Add Contact" page.

Test Case 3.3: View Contact Details (Happy Path)

Preconditions: At least one contact is present in the contact list.

Steps:

1. Navigate to the "Contact List" page.
2. Click on any contact in the contact list.

Expected Result: User is redirected to the "Contact Details" page of the selected contact.

Test Case 3.4: Contact List Display (Happy Path)

Preconditions: At least one contact is present in the contact list.

Steps:

1. Navigate to the "Contact List" page.

Expected Result: All contacts are displayed correctly in the contact list with their details.

Test Case 3.5: Empty Contact List (Negative)

Preconditions: No contacts are present in the contact list.

Steps:

1. Navigate to the "Contact List" page.

Expected Result: No contacts are displayed

Test Case 3.6: Add Contact with Valid Data (Happy Path)

Preconditions: User is logged in and on the Add Contact page.

Steps:

1. Enter "John" in the First Name field.
2. Enter "Doe" in the Last Name field.
3. Enter "1990-01-01" in the Date of Birth field.
4. Enter "john.doe@example.com" in the Email field.
5. Enter "8005551234" in the Phone field.
6. Enter "123 Main St" in the Street Address 1 field.
7. Enter "Apt 4B" in the Street Address 2 field.
8. Enter "Springfield" in the City field.
9. Enter "IL" in the State or Province field.

10. Enter "62701" in the Postal Code field.
11. Enter "USA" in the Country field.
12. Click the "Submit" button.

Expected Result: The contact is successfully added, the user is redirected to the Contact List page, and contacts are displayed correctly in the contact list

Test Case 3.7: Add Contact with Missing Required Fields (Negative)

Preconditions: User is logged in and on the Add Contact page.

Steps:

1. Leave the First Name and Last Name fields empty.
2. Enter valid data in the remaining fields.
3. Click the "Submit" button.

Expected Result: An error message "First Name and Last Name are required" is displayed. The contact is not added.

Test Case 3.8: Add Contact with Invalid Email (Negative)

Preconditions: User is logged in and on the Add Contact page.

Steps:

1. Enter "John" in the First Name field.
2. Enter "Doe" in the Last Name field.
3. Enter "invalid-email" in the Email field.
4. Enter valid data in the remaining fields.
5. Click the "Submit" button.

Expected Result: An error message "Invalid email format" is displayed. The contact is not added.

Test Case 3.9: Cancel Adding Contact (Navigation)

Preconditions: User is logged in and on the Add Contact page.

Steps:

1. Click the "Cancel" button.

Expected Result: The user is redirected to the Contact List page. No new contact is added.

4. View Contact Details

Test Case 4.1: View Contact Details (Happy Path)

Preconditions: User is logged in and on the Contact Details page.

Steps:

1. Navigate to the Contact Details page.
2. Verify that the contact details are displayed correctly.

Expected Result: The contact details (First Name, Last Name, Email, etc.) are displayed accurately as per the data available.

Test Case 4.2: Edit Contact Button Functionality (Happy Path)

Preconditions: User is logged in and on the Contact Details page.

Steps:

1. Click the "Edit Contact" button.

Expected Result: The user is redirected to the Edit Contact page.

Test Case 4.3: Delete Contact Button Functionality (Happy Path)

Preconditions: User is logged in and on the Contact Details page.

Steps:

1. Click the "Delete Contact" button.
2. Confirm the deletion if prompted.

Expected Result: The contact is deleted, and the user is redirected to the Contact List page.

Test Case 4.4: Return to Contact List Button Functionality (Happy Path)

Preconditions: User is logged in and on the Contact Details page.

Steps:

1. Click the "Return to Contact List" button.

Expected Result: The user is redirected to the Contact List page.

Test Case 4.5: Logout Button Functionality (Happy Path)

Preconditions: User is logged in and on the Contact Details page.

Steps:

1. Click the "Logout" button.

Expected Result: The user is logged out and redirected to the login page.

Test Case 4.6: Correct Information Display (Happy Path)

Preconditions: User is logged in and on the Contact Details page.

Steps:

1. Navigate to the Contact Details page.
2. Verify the data in each field (First Name, Last Name, Email, Phone, etc.).

Expected Result: Each field displays the correct information as per the contact details stored in the system.

Test Case 4.7: Access Non-Existent Contact Details (Negative)

Preconditions: User is logged in.

Steps:

1. Manually enter the URL for a non-existent contact.

Expected Result: An error message is displayed, and the user is redirected to the Contact List page.

Test Case 4.9: Update Contact Details (Happy Path)

Preconditions: User is logged in and on the Edit Contact page.

Steps:

1. Navigate to the Edit Contact page.
2. Update the details in the form fields.
3. Click the "Submit" button.

Expected Result: The updated contact details are saved, and the user is redirected to the Contact Details page with the updated information displayed.

Test Case 4.10: Form Validation for Mandatory Fields (Negative)

Preconditions: User is logged in and on the Edit Contact page.

Steps:

1. Clear the First Name, Last Name, and Email fields.
2. Click the "Submit" button.

Expected Result: Error messages are displayed for each mandatory field that is empty.

Test Case 4.11: Invalid Email Format (Negative)

Preconditions: User is logged in and on the Edit Contact page.

Steps:

1. Enter an invalid email address in the Email field (e.g., "invalid-email").
2. Click the "Submit" button.

Expected Result: An error message is displayed indicating that the email address is invalid.