Project Test plan

**Introduction –**

This test plan focuses on validating key functionalities in Scopex Money app , including user registration , add a recipient and logout . The goal is to ensure the application works as expected by covering a variety of test cases for these functionalities.

**Test Objectives**

* **User Registration**: Ensure users can successfully register, including handling invalid inputs and error scenarios.
* **Adding a Recipient**: Validate that users can add a recipient with all necessary details and that the system properly handles invalid or incomplete data.
* **Logout**: Confirm that the logout functionality works as intended, ensuring users are logged out and redirected to the login page.

**Test Scope**

This plan focuses on three core functionalities:

* User Registration: Valid and invalid inputs for the registration process.
* Adding a Recipient: Functional and validation checks when adding recipients.
* Logout: Ensuring proper session management when logging out.

**Out of Scope**

* Integration testing with external payment services.
* Stress and load testing.

**Key Test Scenarios**

**User Registration**

**Scenario 1: Valid Data Submission**

1. **Test Description**: Verify that the registration is successful when valid data is entered for name, email, and optionally for the referral code.

* **Test Steps**:

1. Open the registration page.
2. Enter valid name (e.g., "Shreya Mukherjee").
3. Enter a valid email (e.g., shreyamukh40@gmail.com).
4. Optionally enter a referral code (e.g., REF12345).
5. Submit the form.

**Expected Result**: Registration is successful, and the user is redirected to the dashboard.

1. **Scenario 2:** Missing Mandatory Name Field

**Test Steps**:

1. Open the registration page.
2. Leave the name field empty.
3. Enter a valid email.
4. Optionally enter a referral code.
5. Submit the form.

**Expected Result**: The system displays an error message like "Name is required."

1. **Scenario 3:** Invalid Email Format

**Test Steps**:

1. Open the registration page.
2. Enter a valid name.
3. Enter an invalid email (e.g., testuser@com).
4. Optionally enter a referral code.
5. Submit the form.

**Expected Result**: The system displays an error message like " Invalid email format."

1. **Scenario 4:** Missing Mandatory Email Field

**Test steps:**

1. Open the registration page.
2. Leave the email field empty.
3. Enter a valid name.
4. Optionally enter a referral code.
5. Submit the form.

**Expected Result**: The system displays an error message like "Email required."

1. **Scenario 5**: Valid Name and Email, Invalid Referral Code

**Test Steps**:

1. Open the registration page.
2. Enter a valid name and email.
3. Enter an invalid referral code (e.g., INVALIDCODE).
4. Submit the form.

**Expected Result:** If the Referral field is filled with an invalid code, an error message should appear (e.g., "Referral code is invalid").

1. **Scenario 6**: Valid Name and Email, Empty Referral Code

**Test Steps**:

1. Open the registration page.
2. Enter a valid name and email.
3. Leave the referral code field empty.
4. Submit the form.

**Expected Result:** The system should successfully register the user and redirect to the dashboard.

1. **Scenario 7:** Referral Code Applied Correctly

**Test Steps**:

1. Open the registration page.
2. Enter a valid name and email.
3. Enter a valid referral code (e.g., REF12345).
4. Submit the form.

**Expected Result:** The user is registered, and the referral code is accepted, possibly triggering any referral-related benefits or information.

1. **Scenario 8**: Duplicate Email Address

**Test Steps:**

1. Open the registration page.
2. Enter a valid name.
3. Enter an email address that has already been used for registration.
4. Optionally enter a referral code.
5. Submit the form.

**Expected Result**: The system shows an error message like "This email is already registered."

1. **Scenario 9:** Verify email address

**Test Steps:**

* 1. Open the registration page.
  2. Enter a valid name.
  3. Enter valid email address.
  4. Verify the email address.

**Expected Result:** Email successfully verified.

1. **Scenario 10:** Reset password

Test Steps:

1. Open the reset password link
2. Enter valid password
3. Verify the password
4. Submit the form.

**Expected Result**: After submission, the user is redirected to the dashboard or a confirmation page (e.g., "Thank you for registering").

1. **Scenario 11:** Password Mismatch

**Test Steps:**

1. Open the registration page.
2. Enter a valid name and email.
3. Enter a password in the password field and a different password in the confirm password field.
4. Submit the form.

**Expected Result**: The system shows an error message like "Passwords do not match."

**Adding a Recipient**

1. **Scenario 1**: Adding a recipient with valid details (name, nick name ,account number , ifsc code , country).

**Objective:** Ensure the recipient can be successfully added when all required fields (Name, Nickname, Account Number, IFSC Code, Country) are provided correctly.

* **Actions:**
  + Enter valid values for all required fields (e.g., Name, Nickname, Account Number, IFSC Code, and Country).
  + Submit the form.
* **Expected Outcome:**
  + The recipient is successfully added.
  + The system displays a success message.
  + The new recipient appears in the recipient list.

1. **Scenario 2**: Adding a recipient with missing required fields (e.g., no name).

**Objective:** Verify the system’s handling when required fields (e.g., Name) are left empty.

* **Actions:**
  + Leave a required field (e.g., Name) empty while filling in the other details.
  + Attempt to submit the form.
* **Expected Outcome:**
  + An error message is displayed indicating the missing required field (e.g., "Name is required").
  + The form does not submit until the missing field is filled.

1. **Scenario 3**: Adding a recipient with an invalid account number.

**Objective:** Test the validation for an invalid account number format or incorrect length.

* **Actions:**
  + Provide valid information for other fields, but enter an invalid account number (e.g., incorrect length or format).
  + Submit the form.
* **Expected Outcome:**
  + An error message is shown indicating the account number is invalid (e.g., "Please enter a valid account number").
  + The form does not submit until a valid account number is provided.

1. **Scenario 4**: Duplicate recipient check (same email added more than once).

**Objective:** Test the system's behavior when attempting to add a recipient with the same email or other unique identifiers as an existing recipient.

* **Actions:**
  + Add a recipient with a valid email address (e.g., "john.doe@example.com").
  + Attempt to add another recipient with the same email address.
* **Expected Outcome:**
  + An error message is displayed indicating that the recipient already exists (e.g., "This email is already in use").
  + The form does not submit the duplicate recipient.

1. **Scenario 5**: Verifying the newly added recipient appears in the recipient list.

**Objective:** Ensure that newly added recipients are displayed correctly in the recipient list.

* **Actions:**
  + Add a recipient with valid details.
  + After the successful addition, navigate to the recipient list.
* **Expected Outcome:**
  + The newly added recipient should appear in the recipient list with the correct details (Name, Nickname, Account Number, IFSC Code, and Country).

**Logout**

1. **Scenario 1**: Logout functionality works and redirects to the login page.

**Test Steps:**

1. Log in to the application using valid credentials.
2. Click the "Logout" button option from the dropdown menu.

**Expected Result:**

* The user is successfully logged out.
* The system redirects to the login page.
* The user is no longer able to access any protected pages (like the dashboard).

1. **Scenario 2**: Attempt to access the dashboard after logout, ensuring redirection to the login page.

**Test Steps:**

1. Log in to the application using valid credentials.
2. Click the "Logout" button to log out.
3. After being redirected to the login page, try to access the dashboard directly by entering the URL in the address bar.

**Expected Result:**

* The user is redirected to the login page when trying to access the dashboard after logging out.
* The dashboard page is not accessible until the user logs in again.

1. **Scenario 3**: Verify session is properly invalidated after logout (no access to the dashboard after logout).

**Test Steps:**

1. Log in to the application with valid credentials.
2. Click the "Logout" button to log out.
3. Ensure the session is terminated by trying to access the dashboard directly or through the browser history.

**Expected Result:**

* The session is successfully invalidated after logout.
* Access to the dashboard (or any protected pages) is denied.
* The user is redirected to the login page.
* The application does not retain session information (no automatic login).

1. **Scenario 4**: Test logout on multiple devices (mobile, desktop, etc.) to ensure consistent behavior.

**Test Steps:**

1. Log in to the application on a desktop device with valid credentials.
2. Log in to the same account on a mobile device using valid credentials.
3. Log out from the desktop device.
4. Verify that the logout is reflected on both the desktop and mobile devices by trying to access the dashboard on either device.

**Expected Result:**

* Logging out on one device should log the user out of all devices.
* After logout, the user should be redirected to the login page on both desktop and mobile devices.
* Both devices should require re-authentication to access protected pages.

**Test Data Requirements**

**User Registration Test Data**

* **Valid Data**:
  + Email: shreyamukh40@gmail.com
  + Name: Shreya Mukherjee
  + **Valid Referral Code**: REF12345, DISCOUNT20
* **Invalid Data**:
  + Invalid email: testuser@com
  + Weak password: 1234
  + Duplicate email: shreyamukh40.com (already used in the system)
  + Mismatched password: Shreya1! / AnotherPassword
  + Invalid Referral Code: INVALIDCODE, REF99999
  + Empty Fields: Leave name, email, or both empty

**Recipient Data**

* **Valid Data**:
  + Recipient name: Shreya Mukherjee
  + Recipient nickname: Shreya
  + Account number : 1111222233334444
  + IFSC Code :ABCDE12345
* **Invalid Data**:
  + Invalid name: invalidemail.com
  + Invalid account number:0X125VJ75357P
  + Invalid IFSC Code:Q@#$%1246
  + Missing email or name.
  + Duplicate recipient: Shreya Mukherjee (already added).

**Logout Data**

* **Valid Data**:
  + Logged-in user with valid credentials.

**Preconditions**

* A valid Scopex Money account is required for login and testing the functionalities.
* Ensure the application is deployed and accessible on the test environment (staging or test server).
* The browser versions must be up-to-date.

**Test Environment**

* **Devices**: Desktop (Windows 10), Laptop (macOS), Mobile (iOS and Android).
* **Browsers**:
  + Chrome (Latest version)
  + Firefox (Latest version)
  + Safari (Latest version on iOS)
  + Edge (Latest version)
* **Operating Systems**:
  + Windows (10/11)
  + macOS (Catalina, Big Sur)
  + iOS (latest version)
  + Android (latest version)

**Testing Tools**

* **Browser DevTools**: To test the responsiveness and verify network requests.
* **Postman/REST Client**: For API testing (if applicable).
* **Jira**: To log any bugs or issues discovered during testing.

**Test Execution**

**User Registration**

* Execute test cases on various browsers and devices to ensure cross-platform compatibility.
* Verify that all error messages and behaviors conform to the requirements.
* Confirm the application redirects correctly after registration.
* Test the referral code feature, ensuring the optional field does not block registration.

**Adding a Recipient**

1. **Step 1**: Log in and navigate to the "Add Recipient" section.
2. **Step 2**: Enter valid recipient details and submit.
3. **Step 3**: Verify the recipient is added to the list successfully.
4. **Step 4**: Test with missing or invalid details (empty email field, invalid email format) and ensure the correct error message appears.

**Logout**

1. **Step 1**: Log in to Scopex Money.
2. **Step 2**: Click the logout button.
3. **Step 3**: Ensure redirection to the login page.
4. **Step 4**: Attempt to access the dashboard or authenticated pages and verify that it redirects to the login page.

**Expected Outcomes**

1. **User Registration**:
   * Successful registration leads to dashboard access.
   * Invalid data (e.g., weak password, invalid email) triggers an error message.
   * Duplicate email error message appears if registration is attempted with an already used email.
2. **Adding a Recipient**:
   * A recipient is successfully added when valid details are provided.
   * The recipient list is updated accordingly.
   * Invalid or missing data results in a validation error.
3. **Logout**:
   * Logging out successfully redirects to the login page.
   * Session is terminated, and the user cannot access protected resources without logging in again.

**Risks & Assumptions**

* **Assumptions**: The system is deployed correctly in the staging environment, and necessary user accounts are preconfigured.
* **Risks**:
  + Inconsistent behavior across different devices or browsers.
  + Issues with session management (e.g., session not invalidating after logout).

**Test Deliverables**

* Test cases executed with pass/fail status.
* Bug/issue report with screenshots and steps to reproduce (if any issues are found).
* Final test summary report with details of passed and failed scenarios.

**Conclusion**

* This manual test plan provides a comprehensive approach to validating the core functionalities of **User Registration**, **Adding a Recipient**, and **Logout** within Scopex Money. The testing will be performed across various devices and browsers to ensure consistency and robustness.