Test Plan: User Registration, Adding Recipient, Logout

# 1. Test Plan Overview

This test plan outlines the manual testing approach for the key functionalities of the application, including User Registration, Adding a Recipient, and Logout. It includes the test approach, test data requirements, preconditions, expected outcomes, environment setup, and acceptance criteria.

# 2. Test Approach

## 2.1 User Registration

Key Test Scenarios:   
- Valid registration with all required fields filled.   
- Invalid registration due to missing or invalid inputs (e.g., email format).   
- Registration with existing email address.   
- Check for password strength criteria (e.g., minimum characters, special characters).   
- Registration with a blank field.

## 2.2 Adding a Recipient

Key Test Scenarios:   
- Add recipient with valid details.   
- Add recipient with missing required fields (e.g., recipient name, email).   
- Check for duplicate recipient entry.   
- Add recipient with invalid email format or contact number.

## 2.3 Logout

Key Test Scenarios:   
- Successful logout redirects to the login screen.   
- Check if session is properly cleared post-logout.   
- Verify that the logout button works from different parts of the application.

# 3. Test Data and Preconditions

## 3.1 Test Data

User Registration:   
- Valid email addresses (e.g., user@example.com).   
- Valid password (e.g., at least 8 characters, including 1 number, 1 uppercase letter).   
- Test accounts with already existing emails for failure scenarios.   
  
Adding a Recipient:   
- Valid recipient details (e.g., name, email, contact number).   
- Test with missing recipient name/email for failure cases.   
  
Logout:   
- A registered and logged-in user session.

## 3.2 Preconditions

User Registration: User is on the registration page.   
Adding a Recipient: User is logged in and on the recipient management page.   
Logout: User is logged in and on any page within the application.

# 4. Test Environment

Devices: Desktop, Tablet, Mobile (if applicable).   
Browsers: Google Chrome, Mozilla Firefox, Microsoft Edge, Safari (latest versions).   
Operating Systems: Windows 10, macOS, iOS, Android (latest versions).   
Other: Stable internet connection, browser's JavaScript enabled.

# 5. Assumptions, Risks, and Constraints

## 5.1 Assumptions

- All fields for registration are mandatory, and there are no optional fields.   
- The system is not under heavy load during testing.

## 5.2 Risks

- Network failures may impact the login/registration process.   
- Possible discrepancies in how different browsers handle form validation.

## 5.3 Constraints

- Limited test time on mobile devices, so tests may be prioritized for desktop.   
- Limited access to production data; testing may use mock data or test accounts.

# 6. Acceptance Criteria

## 6.1 User Registration

- User must be able to register successfully with valid details.   
- On success, the user should be redirected to the dashboard.   
- On failure (e.g., invalid email or missing password), an appropriate error message should be displayed.

## 6.2 Adding a Recipient

- Recipient must be successfully added when all required details are provided.   
- The added recipient should be visible in the recipient list.   
- Invalid inputs (e.g., missing name, invalid email) should result in an error message.

## 6.3 Logout

- On successful logout, the user should be redirected to the login page.   
- The user should not be able to access the dashboard after logging out without logging in again.