Test Suite 1: User Authentication

Test Case ID TC-01

Module to be tested: User Login

Assumptions: User has valid credentials

Test Data: Valid User username and password

Test Steps:

1. Enter valid User username.
2. Enter valid password.
3. Click on the Login Button.

Expected Results: User should be successfully logged in.
Result: Pass
Comments: User is able to login successfully with valid credentials.

Test Suite 2: User Registration

Test Case ID TC-02

Module to be tested: User Registration

Assumptions: User provides valid registration details

Test Data: Valid User registration information

Test Steps:

1. Fill in all required User registration details.
2. Click on Register Button.

Expected Results: User should be successfully registered.
Result: Pass
Comments: User registration process works correctly.

Test Suite 3: Blood Request Management

Test Case ID TC-03

Module to be tested: Blood Request Creation by Hospital

Assumptions: Hospital provides valid blood request details

Test Data: Valid blood request information

Test Steps:

1. Hospital logs in with valid credentials.
2. Navigate to the blood request creation page.
3. Fill in all required details for the blood request.
4. Click on Send Request Button.

Expected Results: Blood request should be successfully created.
Result: Pass
Comments: Blood request creation process functions correctly.

Test Suite 4: Donation Response

Test Case ID TC-04

Module to be tested: Donor Response to Blood Request

Assumptions: Donor receives valid blood request notification

Test Data: Valid blood request notification

Test Steps:

1. Donor logs in with valid credentials.
2. Receives blood request notification.
3. Selects a blood request to respond to.
4. Clicks on Accept or Reject button.

Expected Results: Donor's response to the blood request should be successfully recorded.
 Result: Pass
Comments: Donor's response to blood requests is correctly recorded.

Test Suite 5: Password Management

Test Case ID TC-05

Module to be tested: Password Reset Process

Assumptions: User initiates password reset with valid email address

Test Data: Valid user email address

Test Steps:

1. User clicks on the "Forgot Password" link.
2. Enters their registered email address.
3. Receives a password reset link via email.
4. Opens the link and fills in the new password.
5. Submits the password reset form.

Expected Results: User should be able to successfully reset their password.
Result: Pass
Comments: Password reset process functions correctly.

Test Suite 6: Distance Matrix API Integration

Test Case ID TC-06

Module to be tested: Distance Matrix API Integration

Assumptions: API receives valid location data

Test Data: Sample origin and destination locations

Test Steps:

1. Send a valid request to the Distance Matrix API with origin and destination locations.
2. Verify that the API processes the request correctly and returns the distance matrix.

Expected Results: API should successfully return the distance matrix between the given locations.
Result: Pass
Comments: The Distance Matrix API correctly processes the request and provides the distance matrix data as expected.