

## CHAPTER 6

### TESTING

#### 6.1 INTRODUCTION

Testing is one of the stages in the SDLC (Software Development Life Cycle). Testing is important for a project. Testing contains a set of activities performed to check if the software is working as per expectations. We have used manual testing. Testing can be done through automation or manually.

#### 6.2 MANUAL TESTING

We have worked on manual testing. We have tested the different functionalities of mobile applications. We have checked it two times. We have done manual testing on every step we were developing our project. We have tested the following functionalities in different scenarios.

Admin login

Admin Registration

User login

User Registration

NGO (Non-Governmental Organizations) login

NGO Registration

Add Donation details

Donar tracking Rider (Food)

Donar logout

Admin add delete donor

Admin add delete Ngo

NGO Request for donation

Admin assigning Rider

We have tested all the above things manually with all boundary values. If anything was not working, then we fixed it. So, it should work without any errors.

#### 6.3.1 Test Cases

Table 6.1: Test case 1.1

Test Scenario	Testing User (Donar)Registration
Test Case	Registering new user
Pre-Condition	The user must have a reliable internet connection. The user must not be registered before. Users must have a valid Mobile No. and Email.
Post-Condition	The user should be registered

Step no	Step Details	Expected Result	Actual Result	Pass/ Fail
1	Verify that the donor can enter a valid name	Donor name is accepted	As expected,	Pass
2	Check if the donor's email is in the correct format	Email is valid	As expected,	Pass
3	Ensure that the password field accepts a secure and valid password	Password meets security requirements	As expected,	Pass
4	Confirm if the password confirmation matches the entered password	Passwords match	As expected,	Pass
5	Verify that the donor type can be selected from the available options	Donor type can be selected	As expected,	Pass

**Table 6.2: Test case 1.2**

Test Scenario	Testing User (Donar)login
Test Case	Checking login with correct email and password
Pre-Condition	The user must have a reliable internet connection. The user must be registered before. Users must have a valid email. and password.
Post-Condition	The user logged in and shown homepage to the user

Test case	Step Details	Expected Result	Actual Result	Pass/ Fail
1	Enter valid email and password and Click on the 'Login' button	User will be redirected to the donor's home page	As expected,	Pass
2	Enter invalid email and password. Click on the 'Login' button	System is displaying an error message "Invalid credentials, please try again."	As expected,	Pass
3	If email and password fields empty and Click on the 'Login' button	System is displaying an error message "Please fill in all fields."	As expected,	Pass
4	After successful login, user can check the donor's profile information and recent activities are visible on the home page	Donor's profile details and recent activities are displayed	As expected,	Pass

**Table 6.3: Test case 1.3**

Test Scenario	Testing Admin login
Test Case	Checking login with valid and invalid email and password and empty fields
Pre-Condition	The admin must have a reliable internet connection. The admin must be registered before. Admin must have a valid email. and password.
Post-Condition	The admin logged in and shown homepage to the admin

Test case.	Step Details	Expected Result	Actual Result	Pass/ Fail
1	Enter valid admin email and password and Click on the 'Login' button	Admin is redirected to the admin Homepage	As expected,	Pass
2	Enter invalid admin username and password and Click on the 'Login' button	System is displaying an error message "Invalid credentials, please try again."	As expected,	Pass
3	If email and password fields empty and Click on the 'Login' button	System is displaying an error message "Please fill in all fields."	As expected,	Pass

4	After successful login, Admin can check the donor's profile information and recent activities are visible on the home page of Admin	Admin profile details and recent activities of Donar and NGO are displayed	As expected,	Pass
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**Table 6.4: Test case 1.4**

Test Scenario	Testing Add Donation
Test Case	Testing the addition of valid donation details
Pre-Condition	The Donar is logged in and has access to the 'Add Donation' screen
Post-Condition	The donation details are successfully added to the database and shown to admin

Step no.	Step Details	Expected Result	Actual Result	Pass/ Fail
1	Add appropriate photos of the donated items,	system displays the uploaded photos of the donated items.	As expected,	Pass
2	Donar Specify the type of food being donated,	system accurately records and displays the specified type of food selected by the donor.	As expected,	Pass
3	Provide a detailed description of the food	The system is correctly records and	As expected,	Pass

		displays the information related to the food,		
4	Indicate the quality of the food,	The system should accurately record the quality information specified by the donor	As expected,	Pass
5	Entering the "best before date" of the food.	The system should correctly register the date provided by the donor	As expected,	Pass
6	Donor ticks the "Request for rider" option	Request sends to admin	As expected,	Pass
7	clicking the 'Submit' button	The system should successfully process and store the donation details in database	As expected,	Pass

**Table 6.5: Test case 1.5**

Test Scenario	Testing Admin Add and Delete Donar
Test Case	Testing the add and delete Donar
Pre-Condition	Admin must be login into account
Post-Condition	The Donar is added and shown in connected Donar list

Test case ID	Step Details	Expected Result	Actual Result	Pass/ Fail
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1	Enter valid donor details. Click on the 'Add Donor' button	Donor is successfully added to the system	As expected,	Pass
2	Enter invalid or incomplete donor details Click on the 'Add Donor' button	System displays an error message "Invalid details, please try again."	As expected,	Pass
3	Select a donor from the list Click on the 'Delete' button	Donor is successfully removed from the system	As expected,	Pass
4	Select a non-existent donor from the list Click on the 'Delete' button	System displays an error message "No such donor exists, please try again."	As expected,	Pass