Criteria B: Design

Table of Contents

UML Case Diagram *2*

Process Description *3*

Screen Mockups Login Mockup *4*

Insert Data Mockup **5**

Read Mockup **7**

Table 1 8

Table 2 8

Delete Data Mockup **10**

Update Data Mockup **11**

Data Dictionary *11*

Table 1. ..... **11**

Table 2. ..... **11**

Test Plan *13*

UML Case Diagram

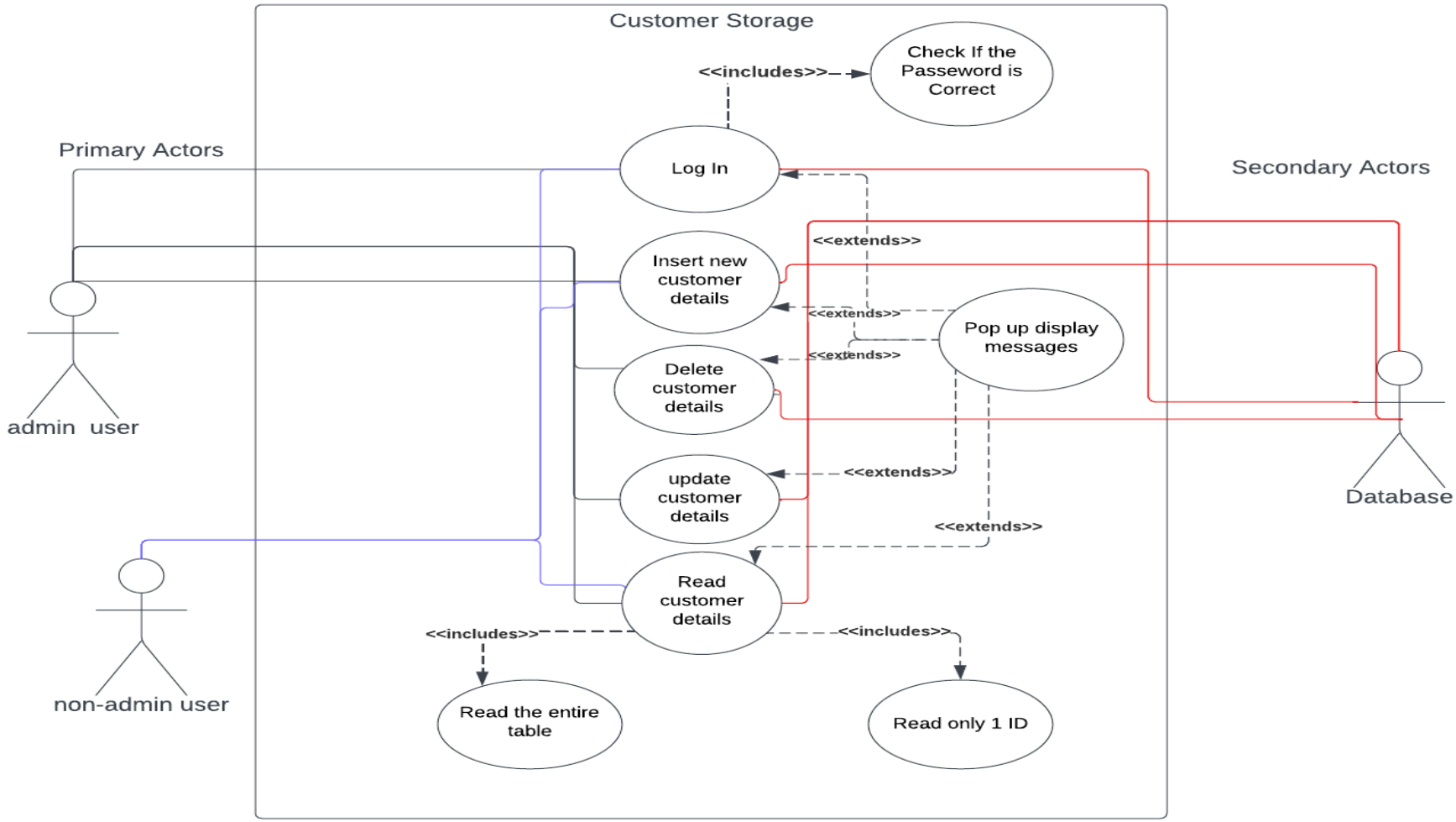


Figure 1: UML case diagram

Process Description

Detailed Flowchart of the entire application

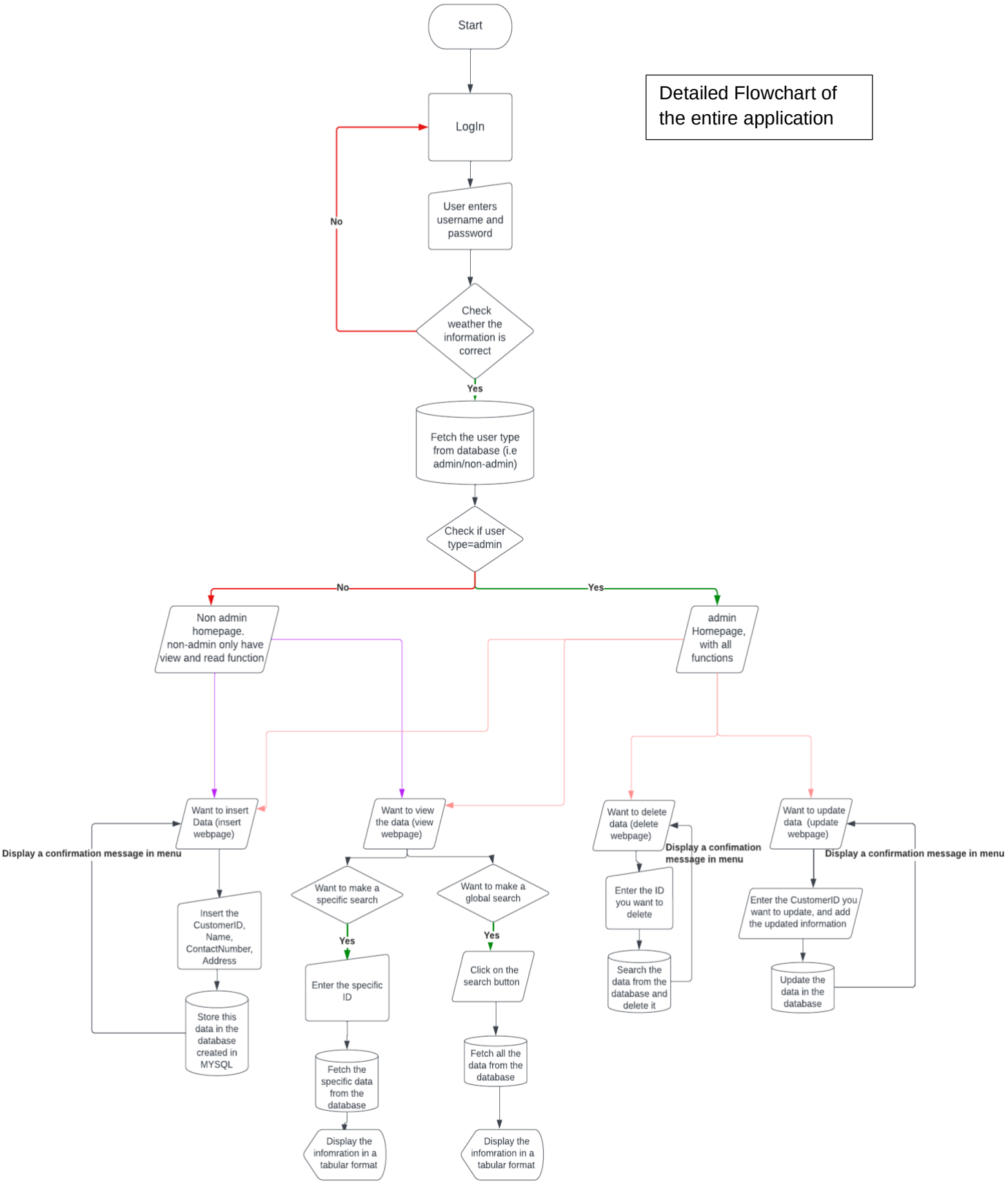


Figure 2: Flow chart to represent the entire program process

Screen Mockups

Login Mockup

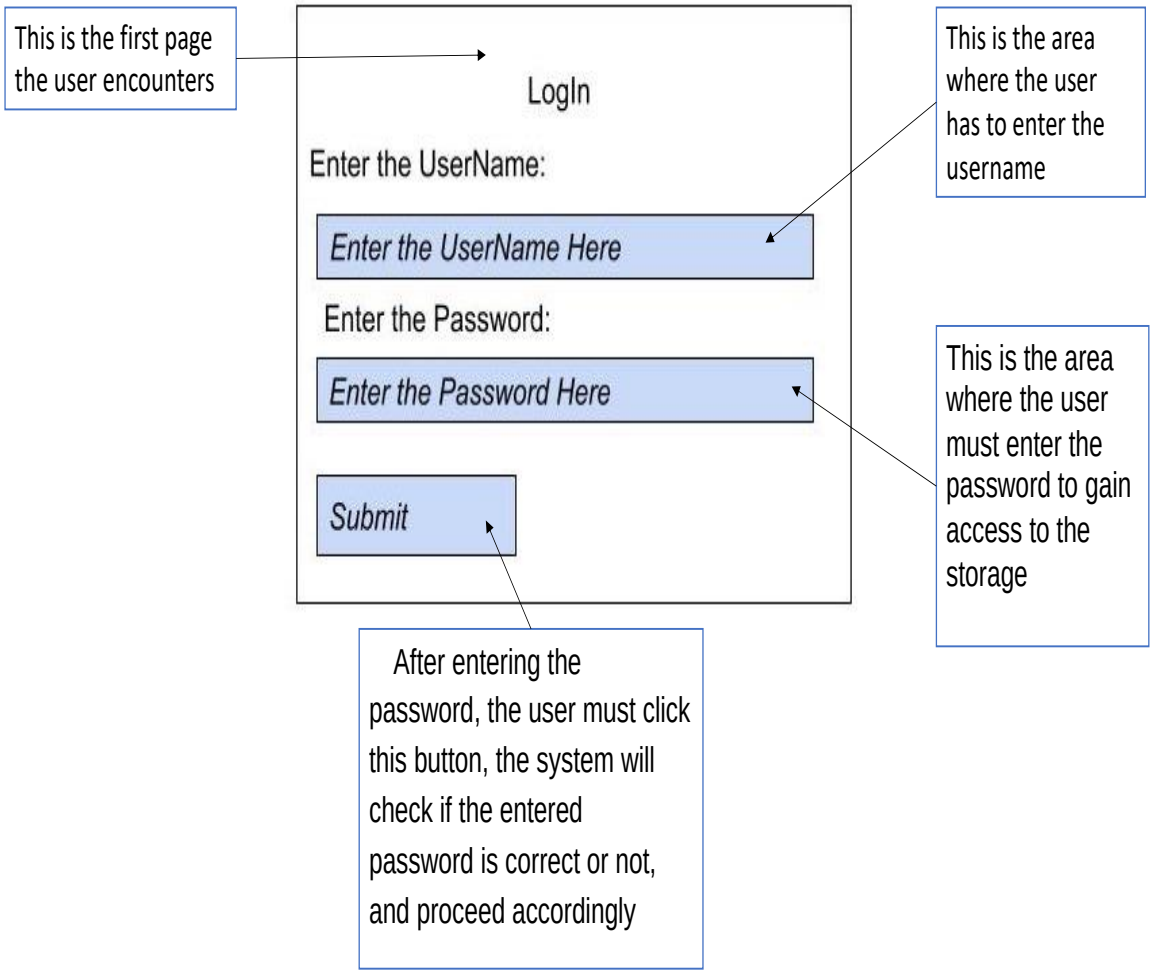


Figure 3: First GUI

Insert Data Mockup

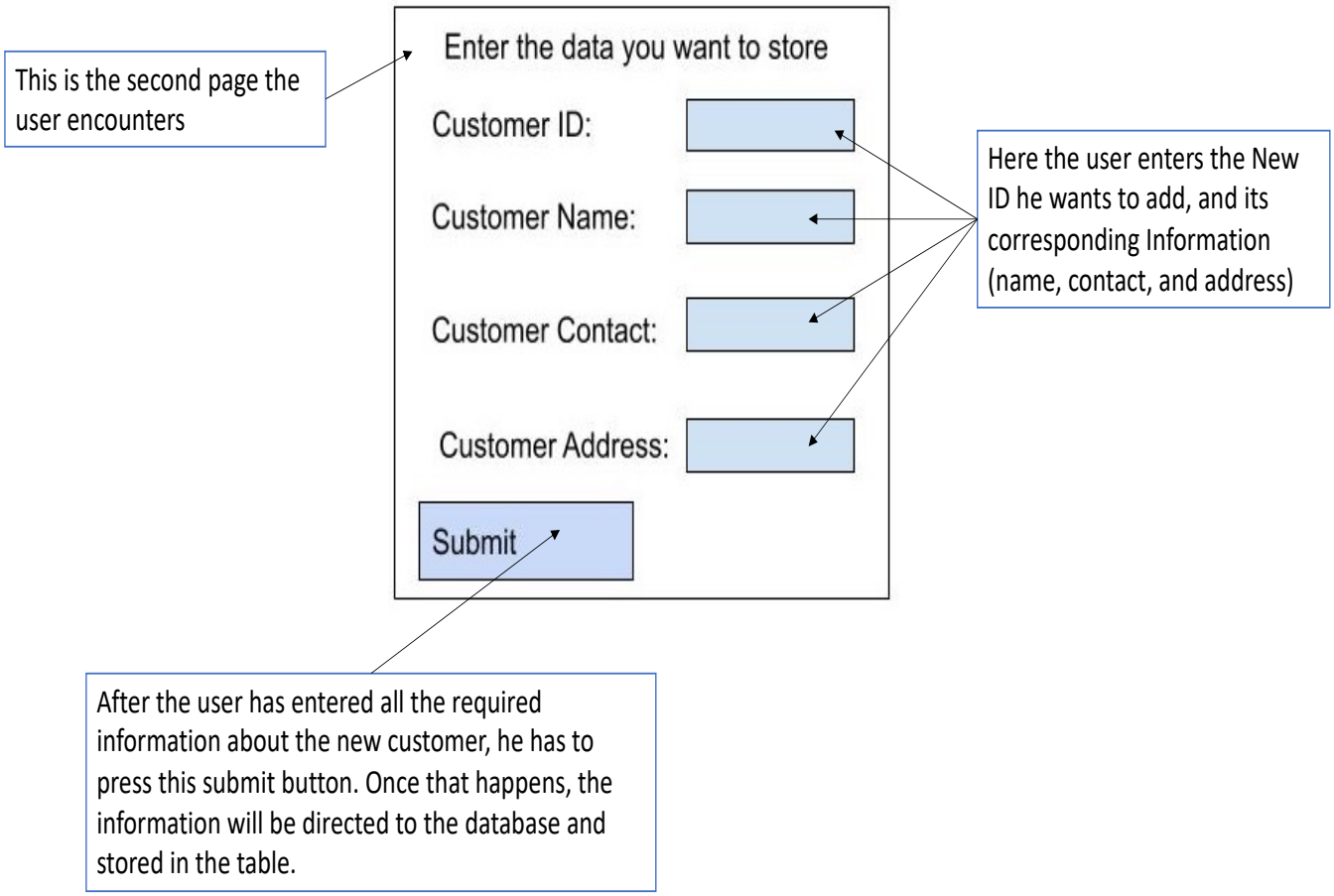


Figure 4: Second GUI

Insert Data Flow Chart

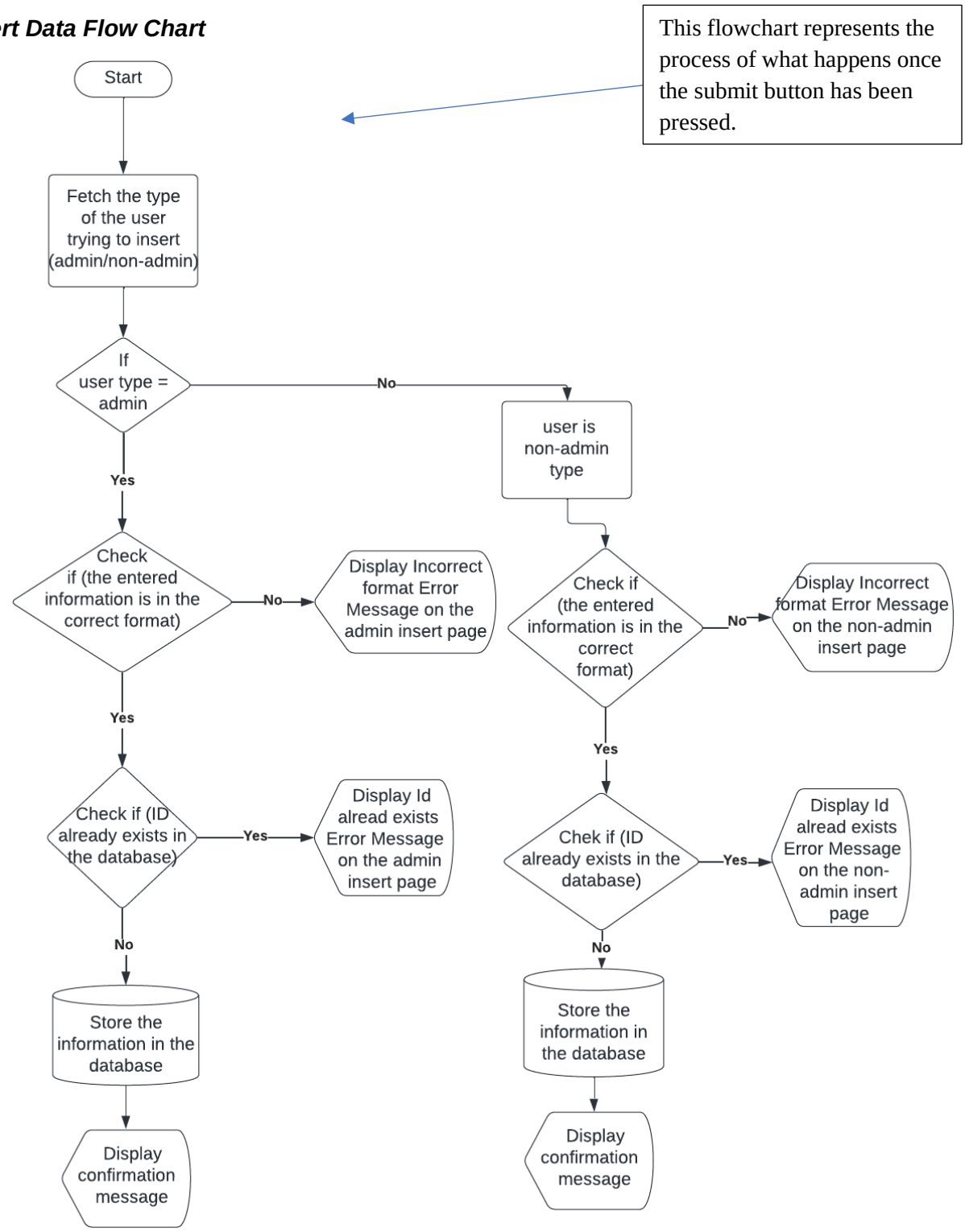


Figure 5: flowchart of what happens once the submit button is pressed

Read Mockup

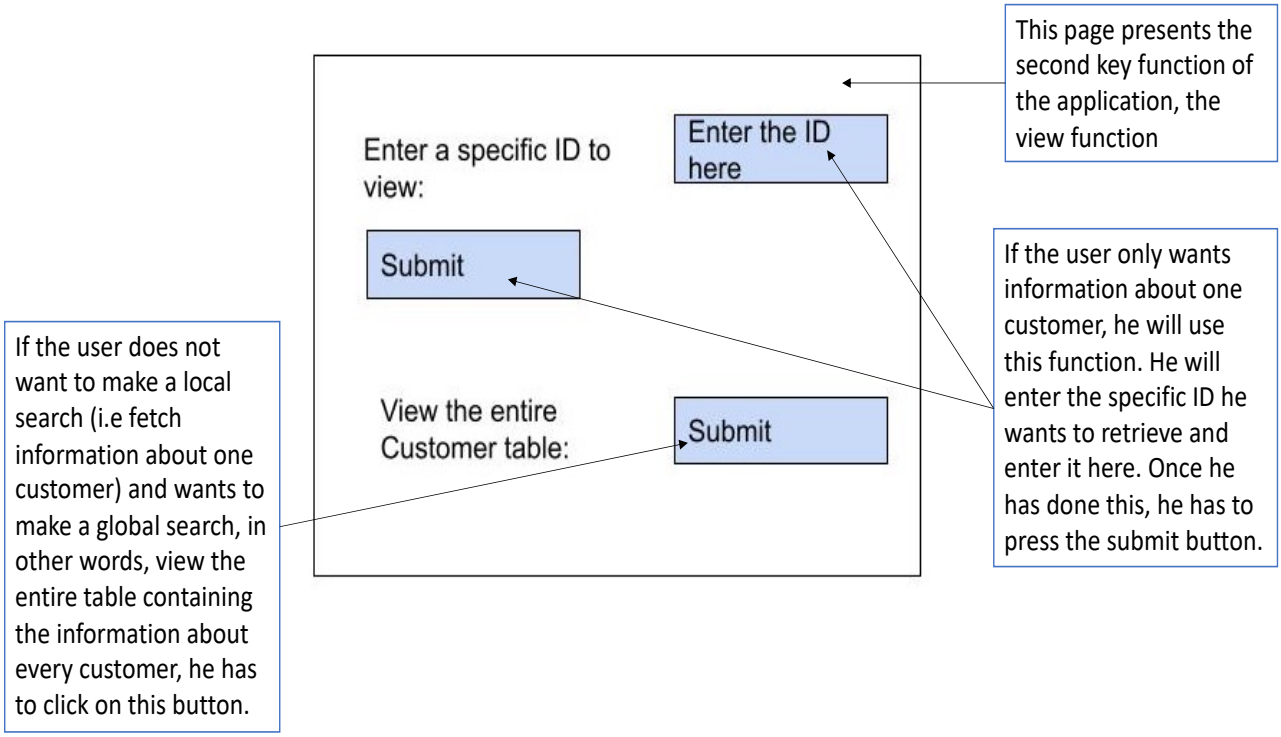


Figure 6: Third GUI

Table 1

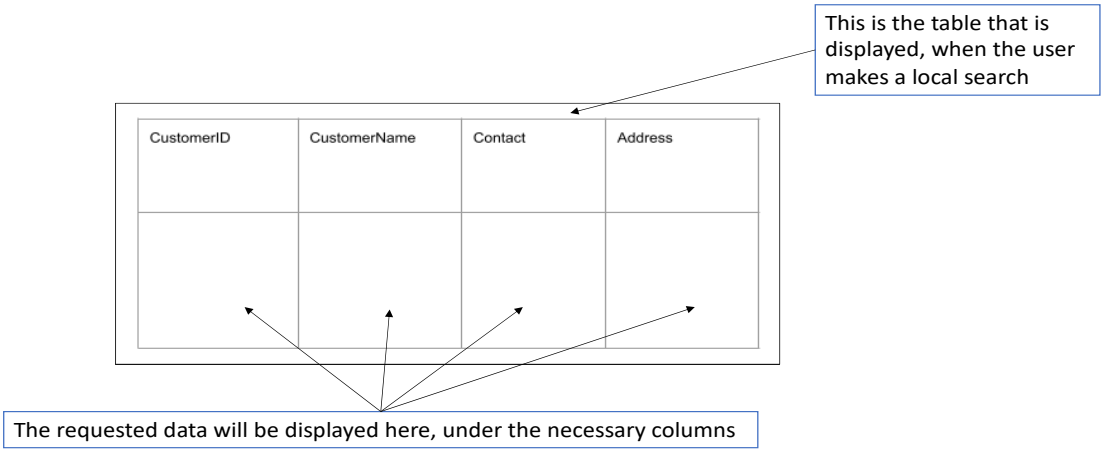


Figure 7: Table 1

Table 2

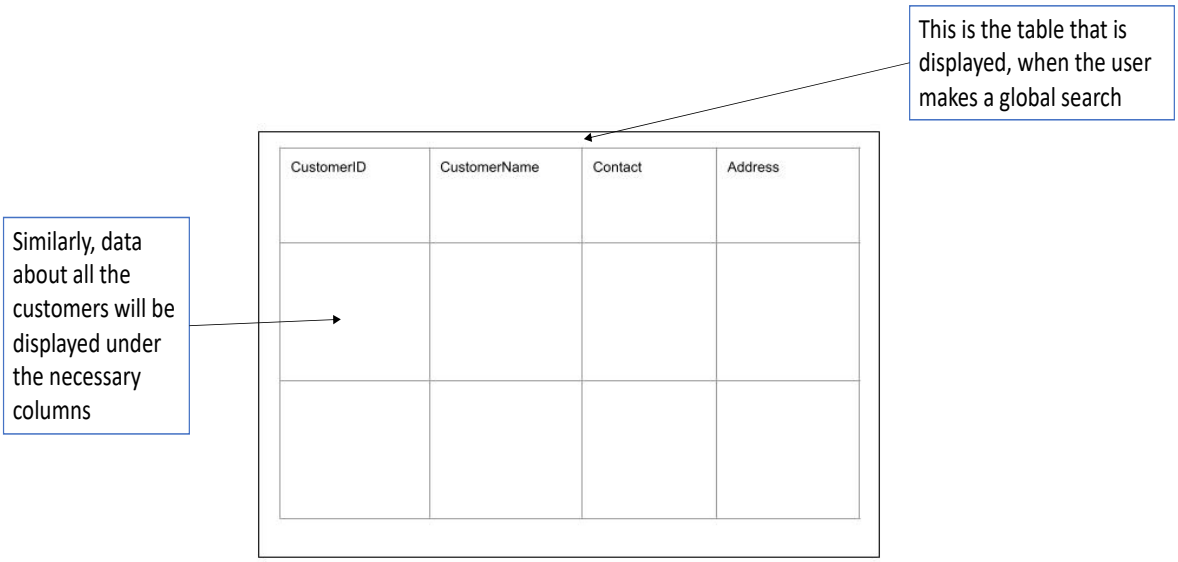


Figure 8: table 2

Global Search flowchart

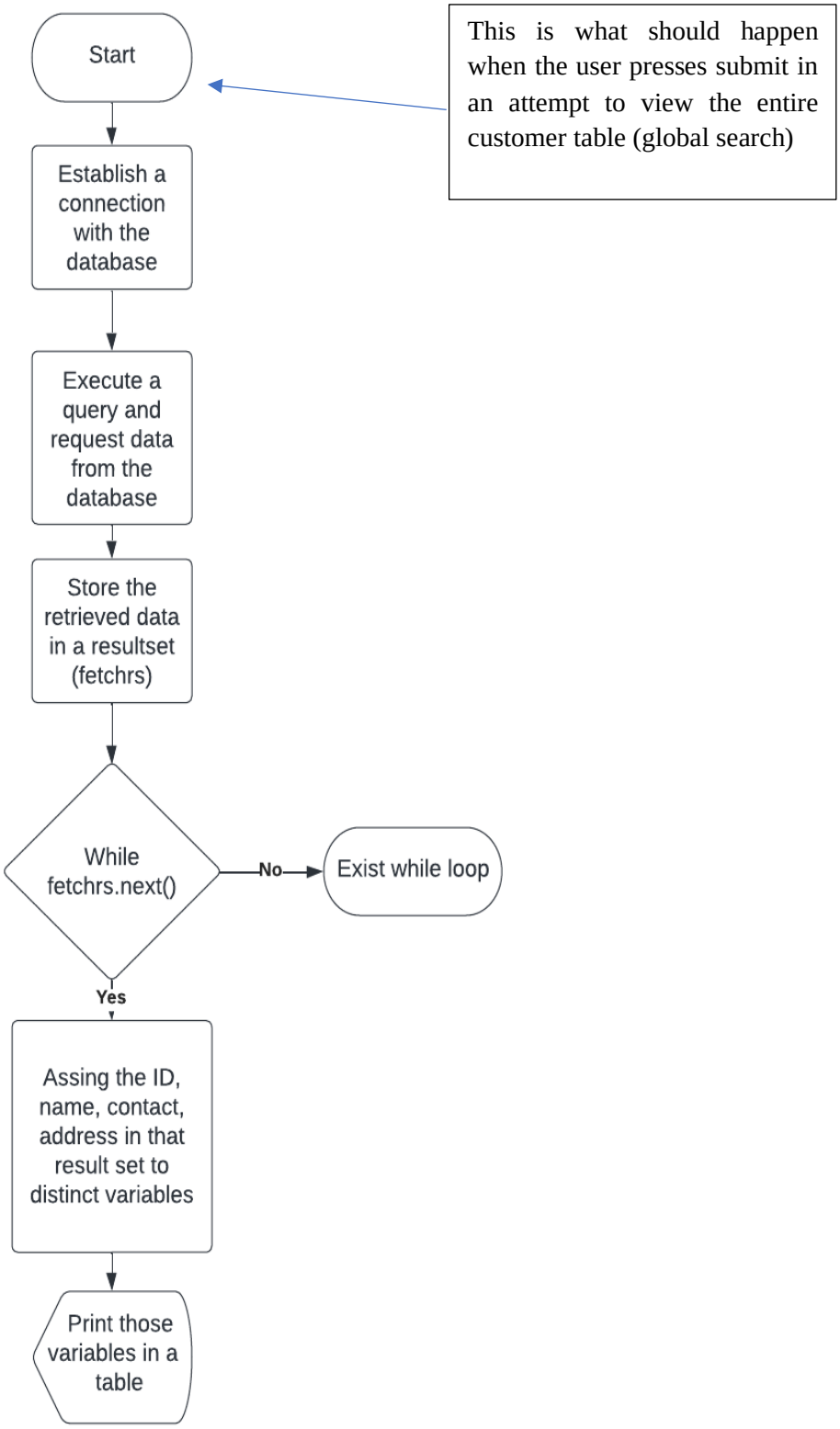


Figure 9: flowchart of the global search

Delete Data Mockup

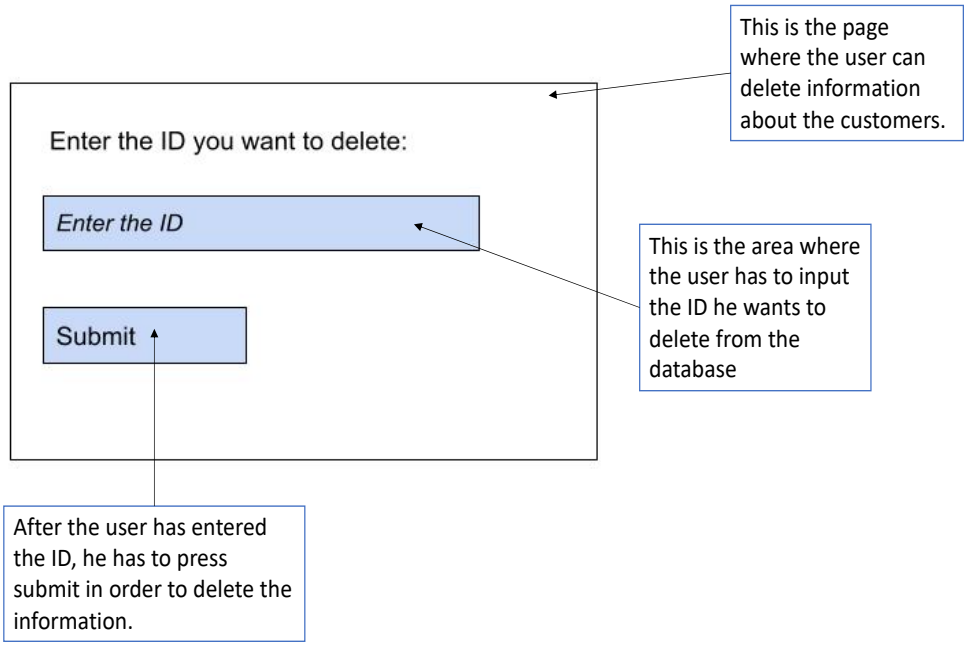


Figure 10: Fifth GUI

Update Data Mockup

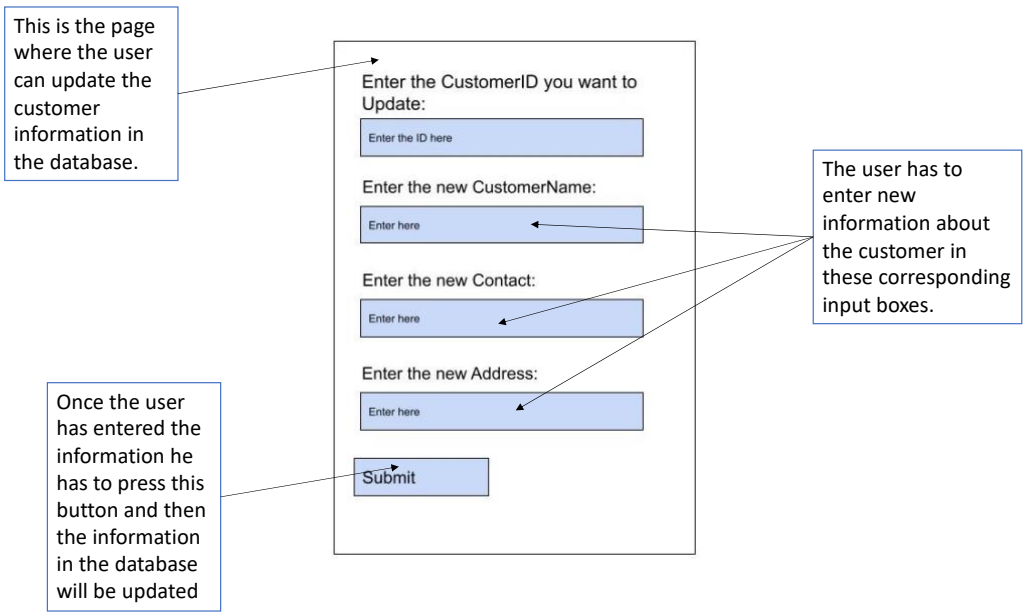


Figure 11: Sixth GUI

Data Dictionary

Table 1.

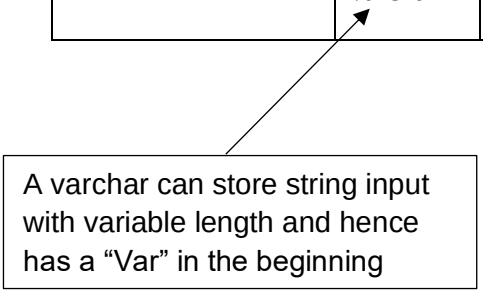
This is the first table that stores User Login credentials:

Field Name	Data Type	Constraint	Description	Example
UserName	Varchar	Primary key	This is the username of the person who wants to login	“john”
Password	Varchar	Null	This is the password that corresponds to the given username	“123456765”
Login_type	Varchar	Null	This is the type of user login, i.e either an admin or a non-admin	“admin”

Table 2.

This is the second table that stores customer details:

Field Name	Data Type	Constraint	Description	Example
Customer_id	int	Primary key	This is the id of the Customer	12
Curtomer_name	varchar	null	This is the name of the customer	Mike
Contact	varchar	null	This field stores the contact (phone number) of the user	01111111
Address	varchar	null	This field stores the physical address of the user	Brown Street 65



Test Plan

No.	Action to test	Test data	Expected outcome
1.	Check if a user can login and use the application.	1. Enter false data that is not present in the database 2. Enter the correct admin details available in the database 3. Enter the correct non-admin details	1. For the first one, an error message should be displayed 2. For the second one the program should redirect the user to the admin homage 3. For the last one the program should guide the user to the non-admin homepage.
2.	Check if the user can insert customer details in the database table.	1. Insert nothing in the input boxes 2. Insert some information in some of the boxes 3. Insert information in all the boxes in incorrect format 4. Insert information in all boxes in the correct format 5. Insert information already existent in the database	1. A message should show up requesting to insert information in the fields 2. A message should show up requesting to insert information in all fields with a reminder of the correct format 3. It should not accept the information and display an error message 4. It should insert the information into the database 5. It should display an error message stating that the information already exists
3.	Check if the application allows the user to read data by displaying it in tabular form.	1. Insert an id existent in the database 2. Insert an id not existent in the database 3. Search the entire database table	1. Data related to that particular customer is displayed 2. User doesn't exist error is displayed 3. The entire table with information regarding every customer is displayed
4.	Check if the user can update a given customer ID and change the information in the fields.	1. Enter only the id user wants to update and not the new updated information. 2. Enter an id that doesn't exist in the database and try updating that. 3. Enter the updated data in the wrong format. i.e., contact not starting with 0. 4. Enter the correct id and information	1. A message will be shown, to enter data in all the fields 2. Id not existent error will be shown 3. An error message will be shown to user requesting him to enter the information in the correct order. 4. The id will be updated, and a confirmation message will be displayed.

		that's needed to be updated.	
5.	Check if the user can delete the information by inputting a customer ID.	1. Enter an id that exists in the database and is required to be deleted by the user. 2. Enter an id that does not exist in the database and the user wants to delete it.	1. A message is shown stating that the id has been deleted. 2. An error message is shown stating that the id does not exist in the database, so please enter a valid ID.
6.	Check if the application can redirect the user from one webpage to another.	1. Click on the links on each page	1. The links should redirect the client from one webpage to another webpage.
7.	Check if the user can logout of the application	1. Try clicking on the logout button on each webpage	1. The user will be directed to the login page once he clicks the login button
8.	Check if the non-admin user only has access to insert and read the present data	1. By going to the non-admin home page and looking at the possible features he has available	1. The non-client account should only have access to insert and read data features.