

**CUSTOMER MANAGEMENT
SYSTEM
(CRUD OPERATIONS)**

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1.ABSTRACT

A Customer Application System is created which comprise an MVC application that stores and displays data using the Spring and Hibernate Framework and MYSQL Server Local DataBase.

It also customize the create, read, update, delete (CRUD) code that the MVC scaffolding automatically creates Controllers and Views for this application.

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2.PROJECT DOCUMENTATION

2.1Project Management Plan

Customer Management System aims to insert,update,delete and list the customer details.The system deals with three user profiles-Admin, Manager, Employee where admin can perform login and also can insert and view all the customer details, manager can add ,delete,update and view the details whereas employee can only view the customer details.

2.2Requirements Specifications

The main requirement of the system is to manage the customer details.

2.3Analysis

Customer Management System aims to manage the details of the customer. It consists of mainly four functionalities:

Adding Customer Details:

Adding the customer details by administrator and manager. Details includes Customer Name, Email_id, Mobile number, Address.

Updating the Customer Details:

Manager can update the details of customer.

Deleting the Customer Details:

Manager can delete the customer record.

Viewing the Customer Details:

Administrator,Manager and employee can view the customer details.

2.4 Design

Backend database of Customer Management System is hibernate.

It consists of two relational tables:users and customers

User Entity:

This entity contains the properties:name,username,password,email,profile of the user and the boolean flag isactive. Username and password is used to login to the system.

User profiles can be administrator,employee and manager.

2.5 Implementation

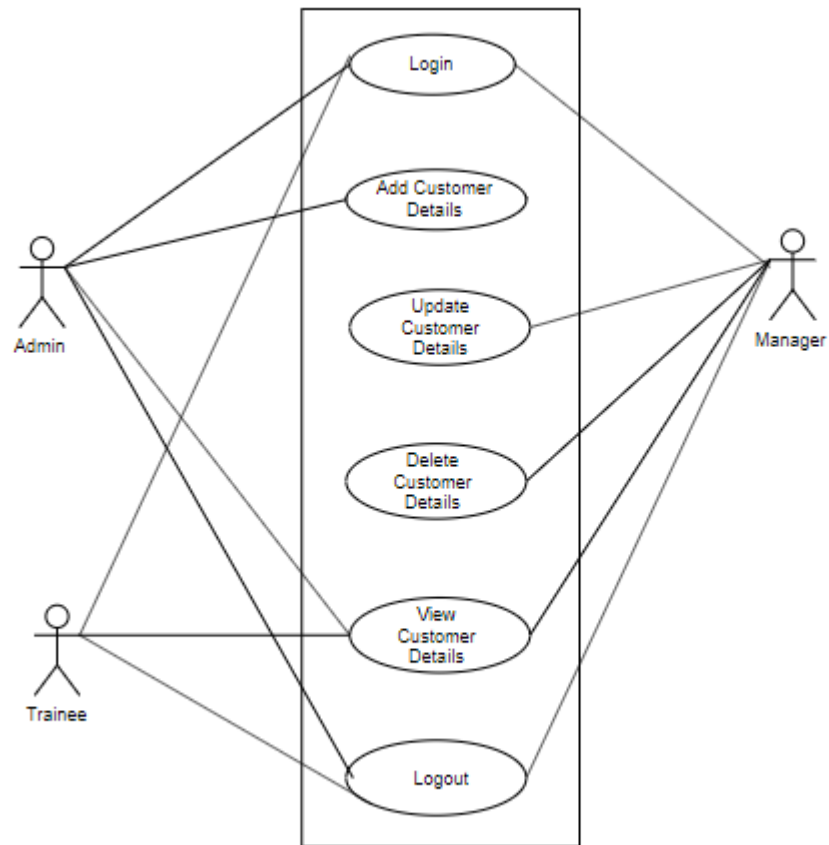
The system is implemented using spring framework and hibernate. Front end of the system is implemented by Bootstrap.

Login Module:

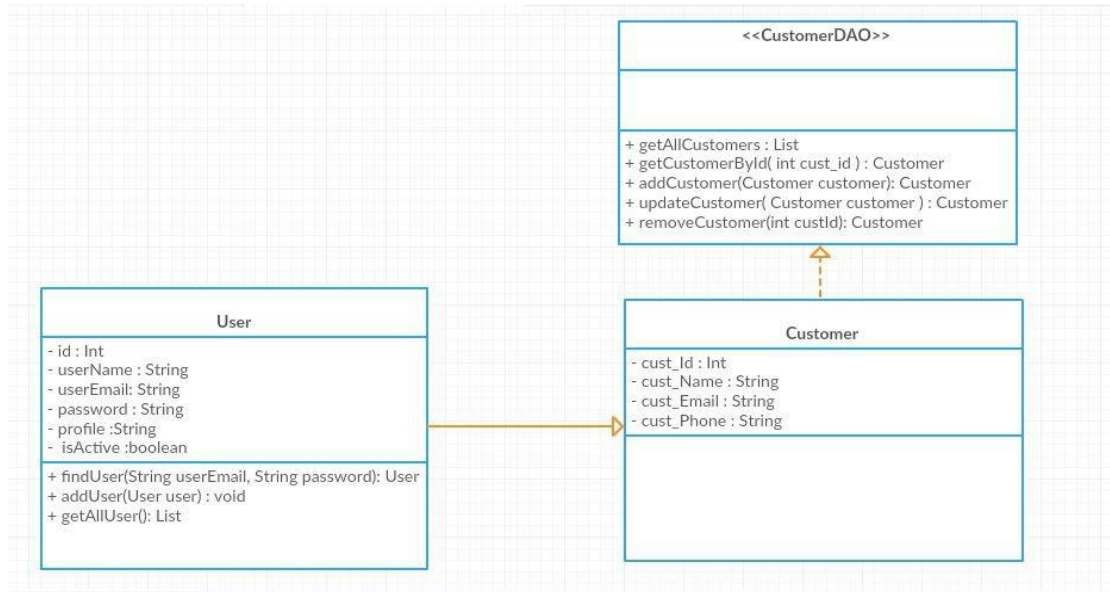
User logs into the system using username and password. He/She views the system according to his profile.

3 FIGURES

3.1 Use Case Diagram:



3.2 Class Diagram

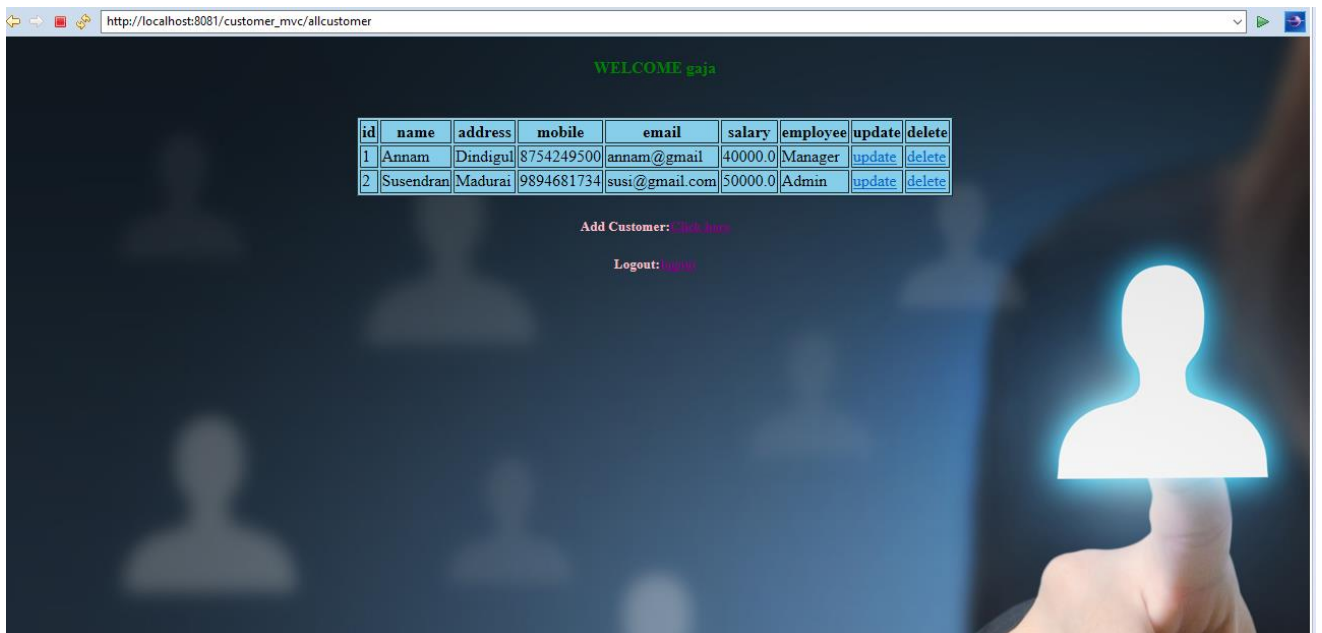


3.3 SCREENSHOTS

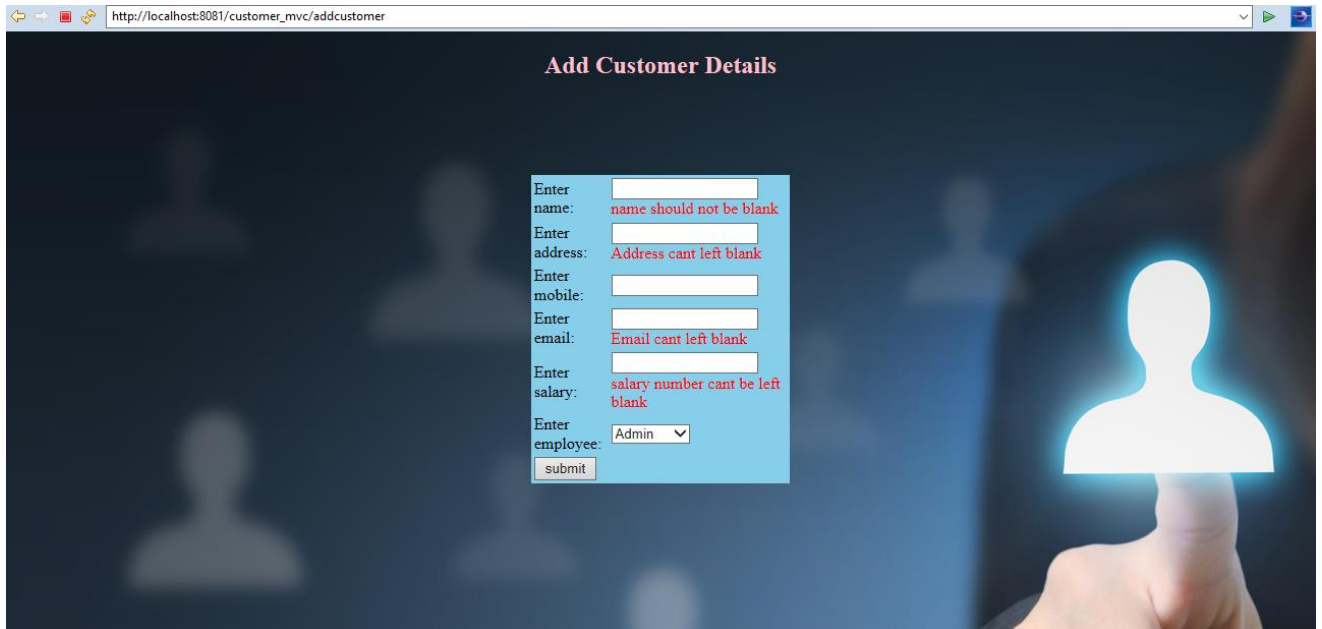
1. User can Login with his credentials which include Email and Password



2. Pre-existing Customer details in database

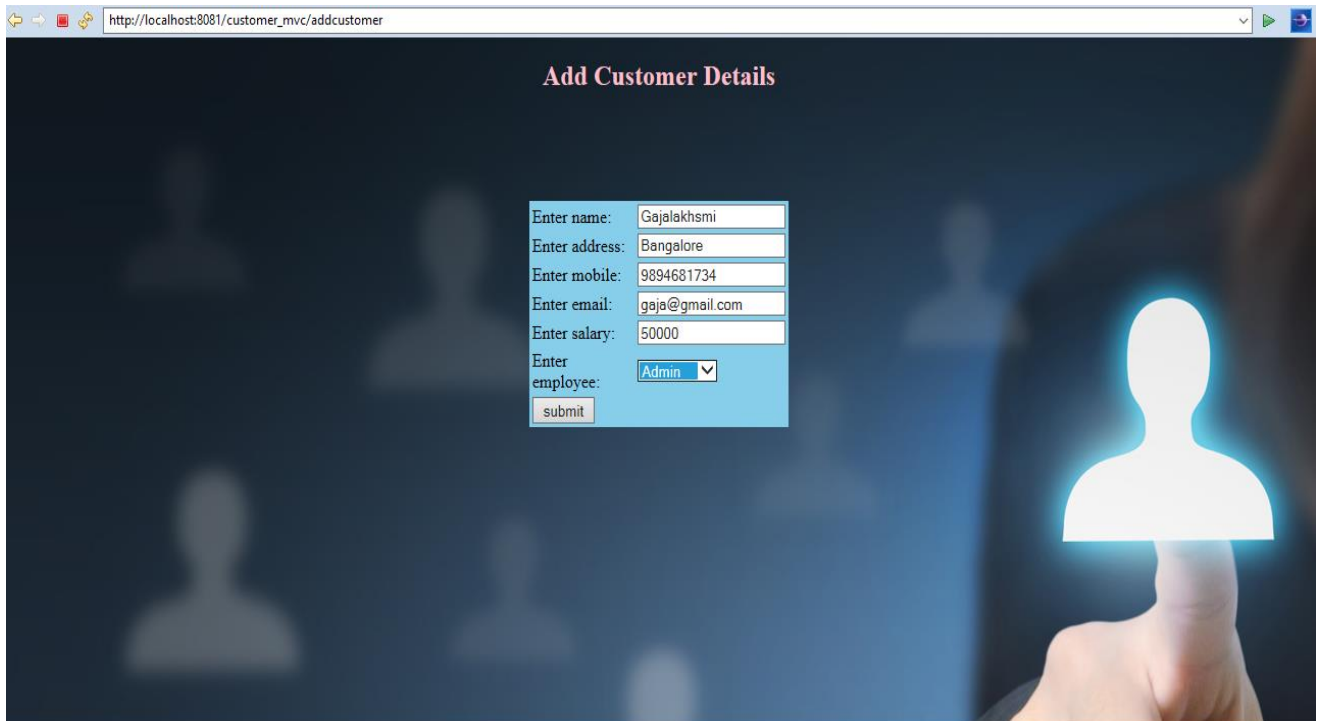


3. Adding customer Details to the database



A screenshot of a web browser displaying the 'Add Customer Details' form. The form is titled 'Add Customer Details' in a red font. It contains several input fields with red error messages indicating they are blank. The fields and their corresponding error messages are: 'Enter name:' with 'name should not be blank', 'Enter address:' with 'Address cant left blank', 'Enter mobile:', 'Enter email:' with 'Email cant left blank', 'Enter salary:' with 'salary number cant be left blank', and 'Enter employee:' with a dropdown menu showing 'Admin'. A 'submit' button is at the bottom of the form. The background of the page is dark blue with a faint image of a person's hand pointing at a glowing white silhouette of a person.

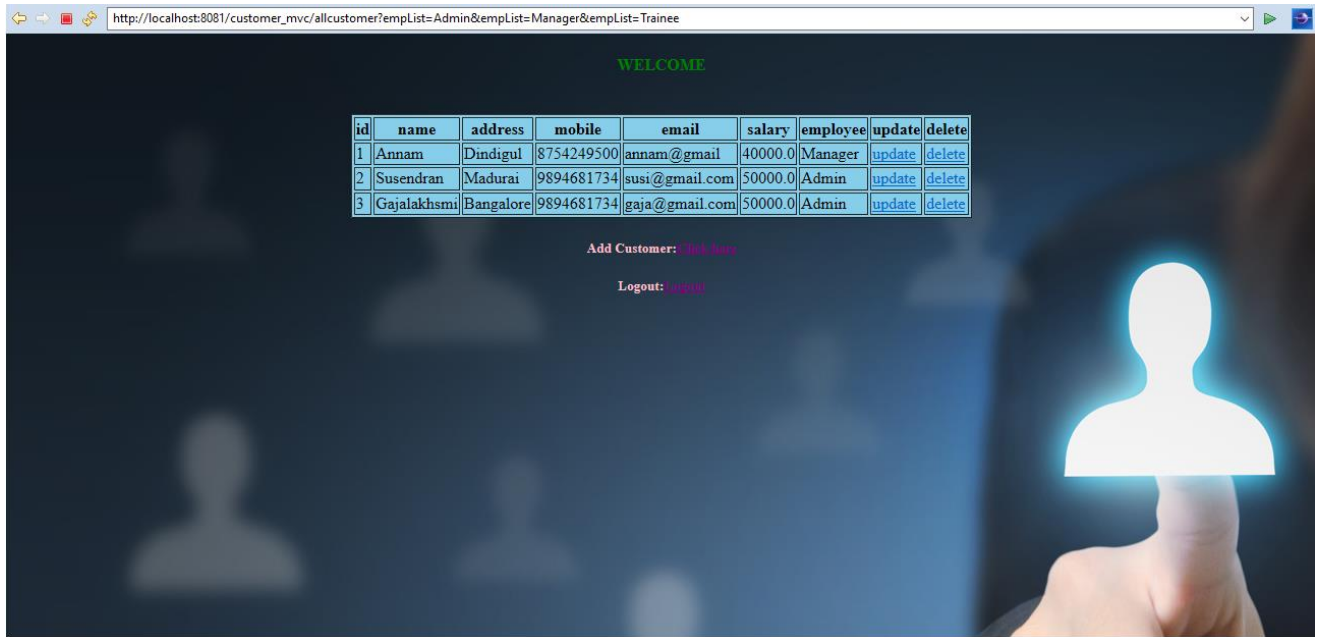
Field	Value	Error Message
Enter name:		name should not be blank
Enter address:		Address cant left blank
Enter mobile:		
Enter email:		Email cant left blank
Enter salary:		salary number cant be left blank
Enter employee:	Admin	



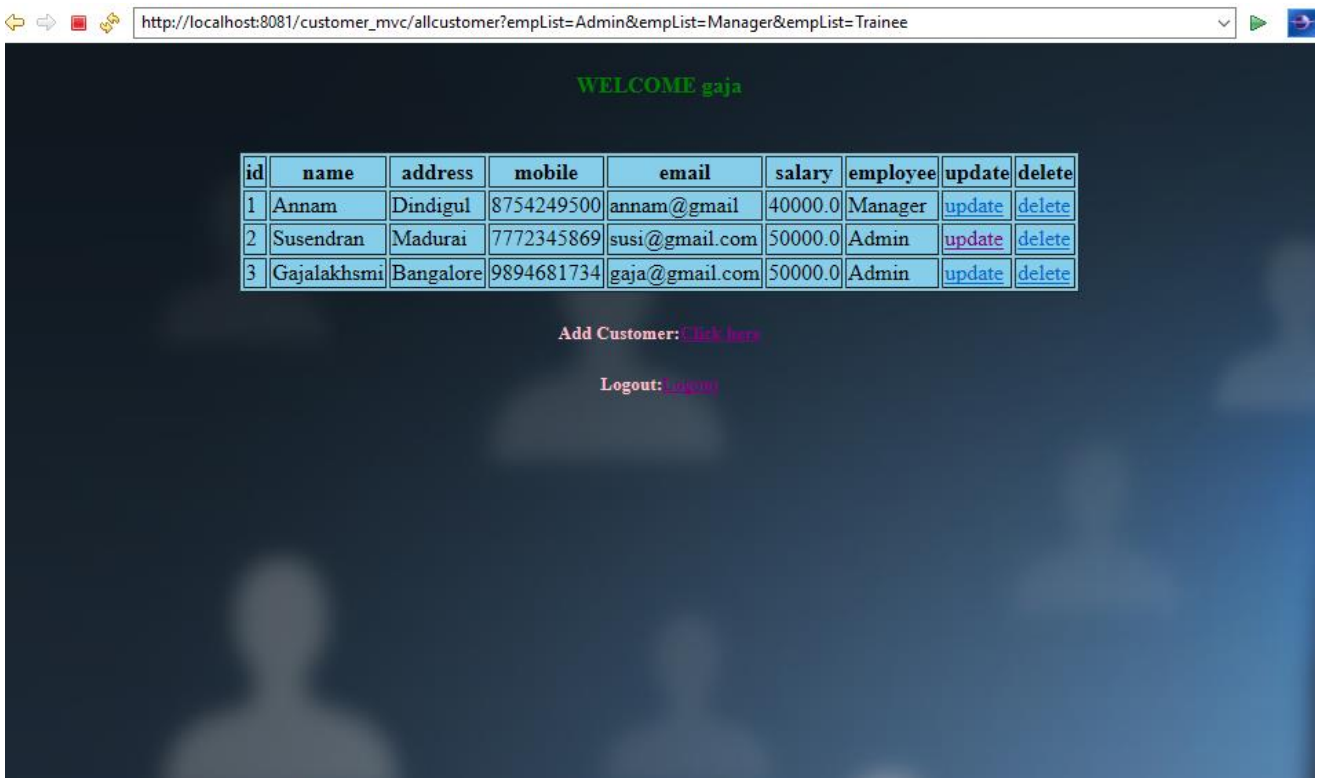
A screenshot of the same 'Add Customer Details' form, but now with data entered in all the input fields. The error messages are gone. The data entered is: 'Gajalakhsmi' for name, 'Bangalore' for address, '9894681734' for mobile, 'geja@gmail.com' for email, '50000' for salary, and 'Admin' for employee. The 'submit' button is still present at the bottom of the form. The background of the page is dark blue with a faint image of a person's hand pointing at a glowing white silhouette of a person.

Field	Value	Error Message
Enter name:	Gajalakhsmi	
Enter address:	Bangalore	
Enter mobile:	9894681734	
Enter email:	geja@gmail.com	
Enter salary:	50000	
Enter employee:	Admin	

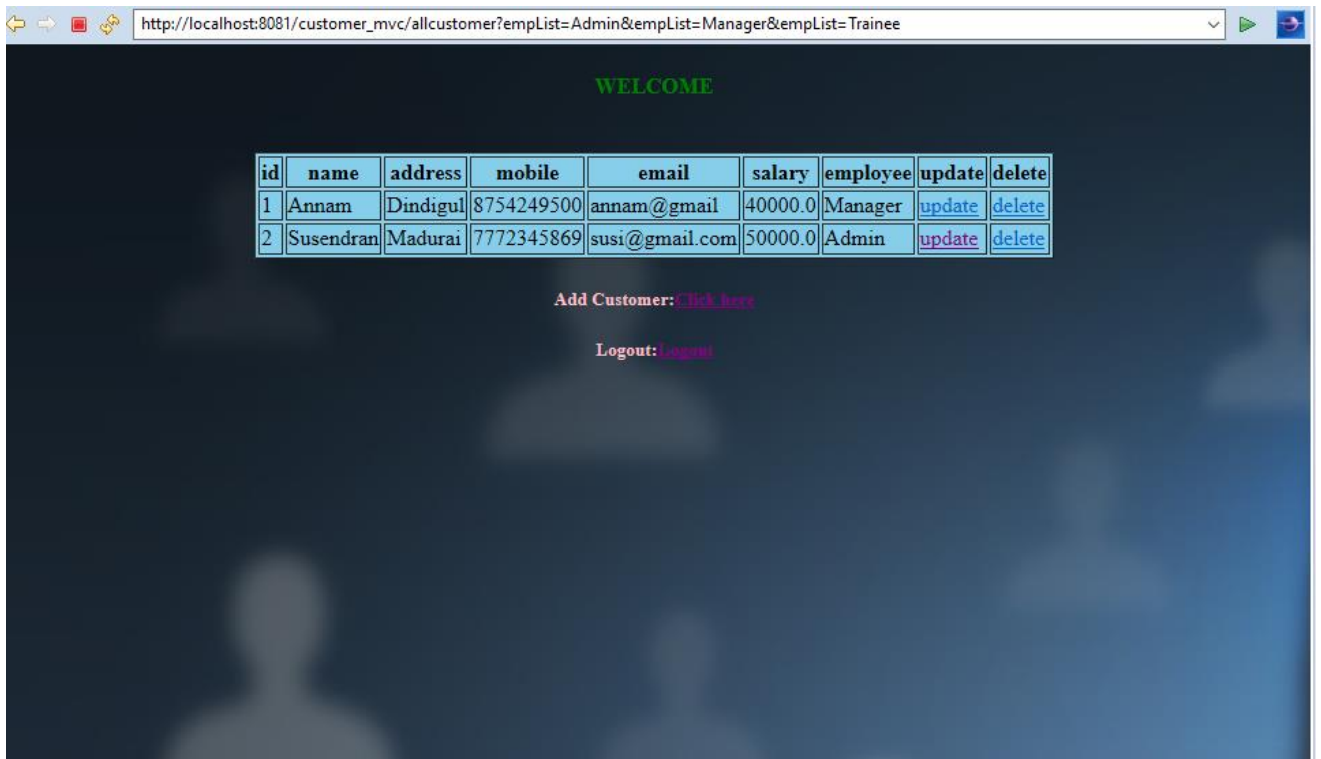
4. Customer Details are added



5. Updating Mobile number in the Customer details where customer_id=2



6.Deleting the Customer with id=3



7.Screenshots of Tables(Users_table and Customer_table) in Database

```
mysql> select *from user_table_cus;
+----+-----+-----+-----+-----+-----+
| id | active | email      | name  | password | profile |
+----+-----+-----+-----+-----+-----+
| 1  | 1      | gaja@gmail | gaja  | gaja123  | admin   |
| 2  | 1      | roja@gmail | roja  | roja123  | mgr     |
| 3  | 1      | pooja@gmail | pooja | pooja123 | trainee |
+----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select *from cust_table;
+----+-----+-----+-----+-----+-----+-----+
| id | address | email      | employee | mobile    | name      | salary |
+----+-----+-----+-----+-----+-----+-----+
| 1  | Dindigul | annam@gmail | Manager  | 8754249500 | Annam     | 40000  |
| 2  | Madurai  | susi@gmail.com | Admin    | 7772345869 | Susendran | 50000  |
+----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
```

4.Conclusion

The Customer Management Application is designed to manage the details of the customer, which gives the provision to add,update,remove and view the customer details as per the status of the user profile.

