

**CUSTOMER MANAGEMENT
SYSTEM
(CRUD OPERATIONS)**

**SUBMITTED BY
M.Preethy
(SAP-Id-51830098)**

TABLE OF CONTENTS

CHAPTER.NO	TITLE
1	ABSTRACT
2	PROJECT DOCUMENTATION 2.1 PROJECT MANAGEMENT PLAN 2.2 REQUIREMENT SPECIFICATIONS 2.3 ANALYSIS 2.4 DESIGN 2.5 IMPLEMENTATION
3	FIGURES 3.1 USE CASE DIAGRAM 3.2 CLASS DIAGRAM 3.3 SCREENSHOTS
4	CONCLUSION

1. ABSTRACT

A Customer Application System is created which comprise an MVC application that stores and displays data using Spring and Hibernate Framework and MYSQL Server Local DataBase. It also customize create, read, update, delete (CRUD) code that the MVC scaffolding automatically creates Controllers and Views for this application.

2. PROJECT DOCUMENTATION

2.1 Project 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.

2.2 Requirements Specifications

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

2.3 Analysis

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

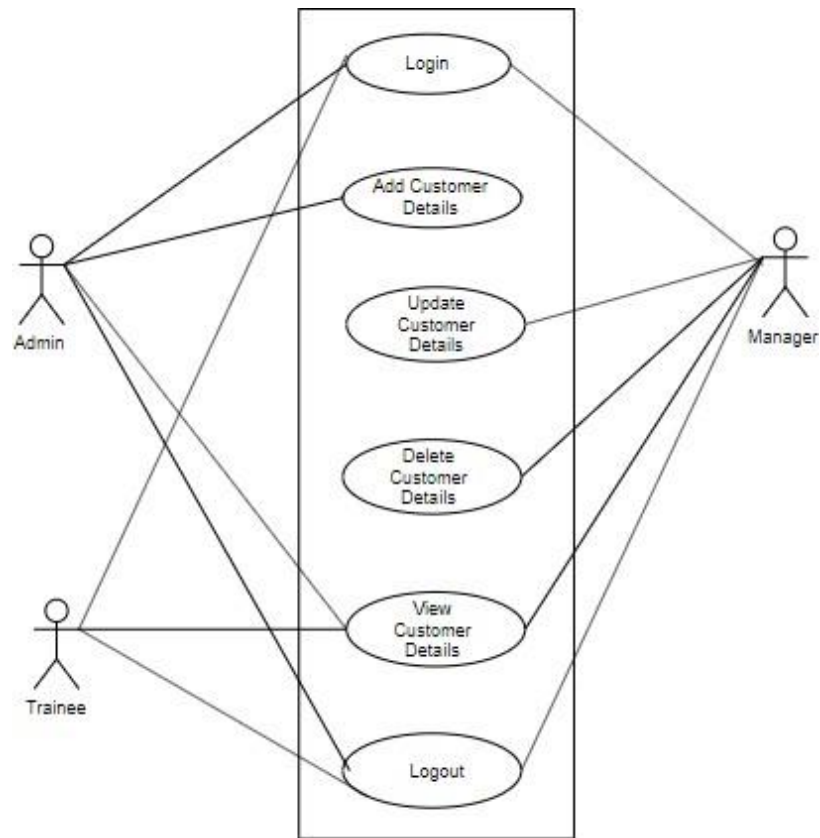
The system is implemented using spring framework and hibernate. Front end of the system is implemented by Bootstrap.

Login Module:

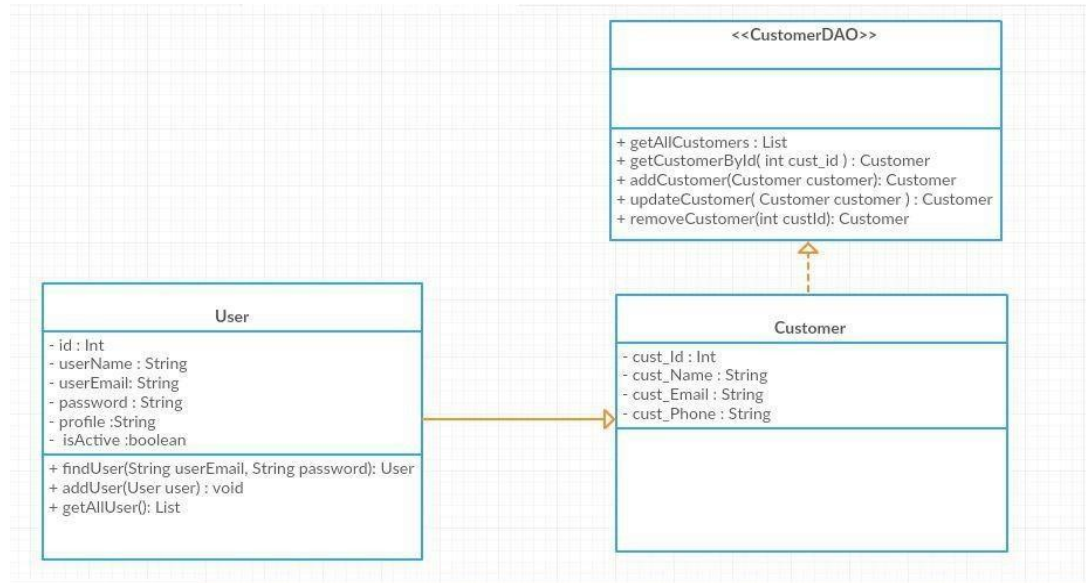
User logs into the system using username and password. He/She views the system according to his profile.

3.FIGURES

3.1 Use Case Diagram:

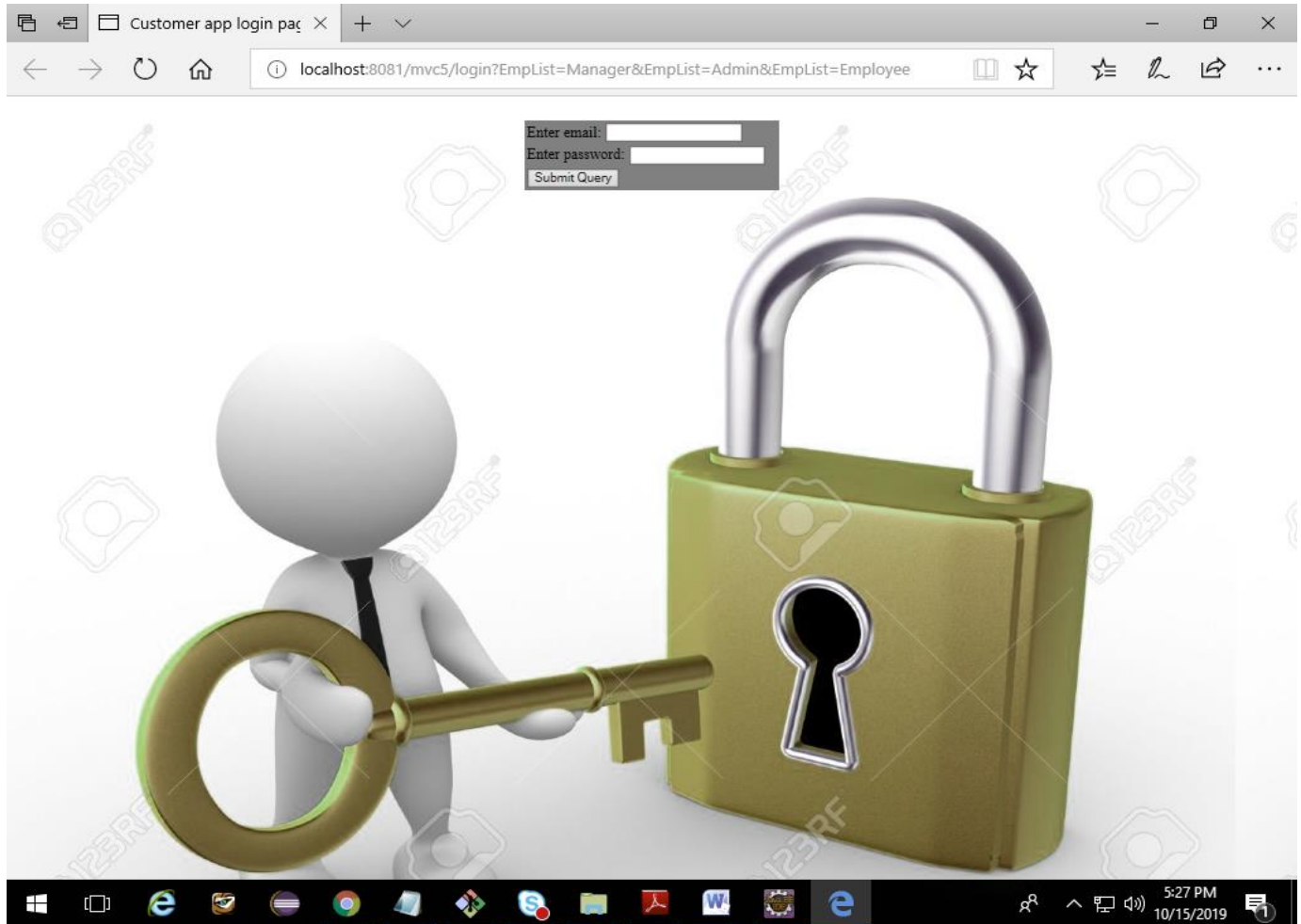


3.2 Class Diagram



3.3 SCREENSHOTS

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



2. Pre-existing Customer details in database

Insert title here


localhost:8081/mvc5/allcustomers

CUSTOMER INFORMATION

id	name	address	mobile	salary	update	delete	Employee	Emp email
2	preethy	Bangalore	9678648616	99999.0	preethy@gmail.com	Admin	update	delete
3	Aarthi	Madurai	9080706050	90000.0	aar@gmail.com	Manager	update	delete
4	prasanna	chennai	9080781284	6000.0	presy@gmail.com	Employee	update	delete
5	Ishu	chennai	8903551622	100000.0	ishu@gmail.com	Admin	update	delete
6	jeyaganapathy	Sellur	9994966372	200000.0	ammappa@gmail.com	Admin	update	delete

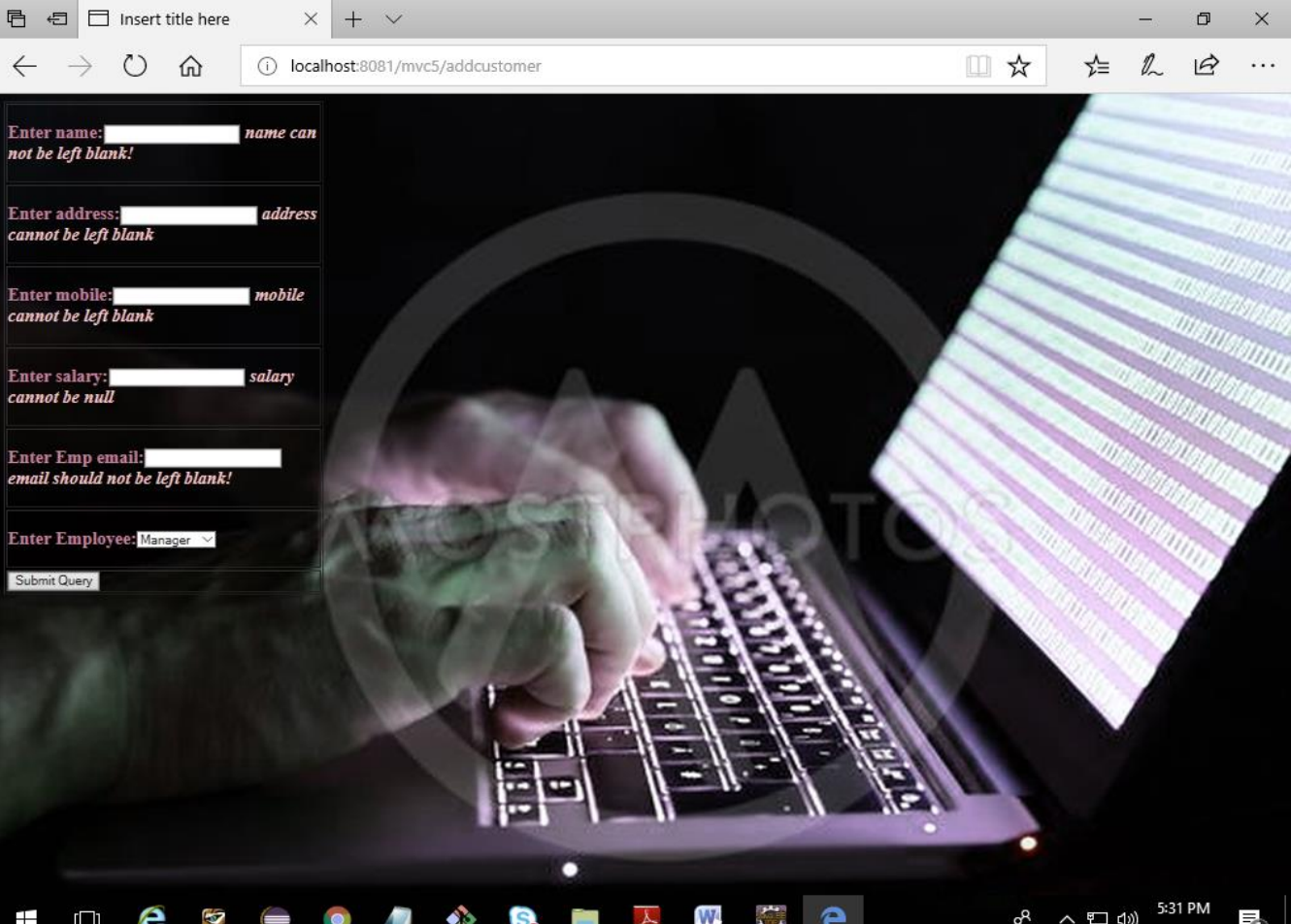
Add Customer : [click here](#)

LogOut : [logout](#)



Windows taskbar showing icons for various applications and the system clock displaying 5:29 PM on 10/15/2019.

3. Adding customer Details to the database



Enter name: *name cannot be left blank!*

Enter address: *address cannot be left blank*

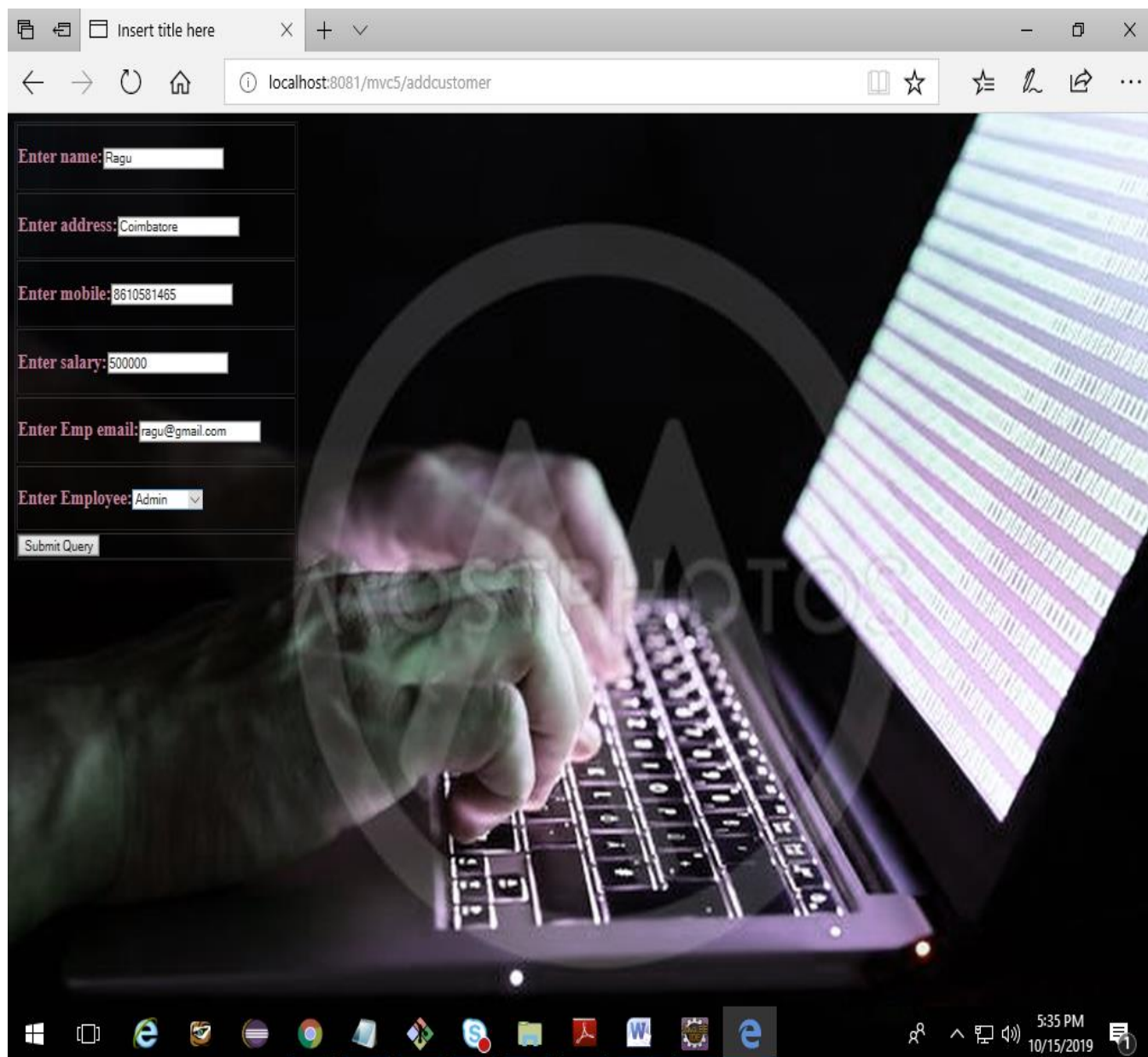
Enter mobile: *mobile cannot be left blank*

Enter salary: *salary cannot be null*

Enter Emp email: *email should not be left blank!*

Enter Employee:

5:31 PM
10/15/2019



4. Customer Details are added

Insert title here


localhost:8081/mvc5/allcustomers?EmpList=Manager&EmpList=Admin&EmpList=Employee

CUSTOMER INFORMATION

id	name	address	mobile	salary	update	delete	Employee	Emp email
2	preethy	Bangalore	9678648616	99999.0	preethy@gmail.com	Admin	update	delete
3	Aarthi	Madurai	9080706050	90000.0	aar@gmail.com	Manager	update	delete
4	prasanna	chennai	9080781284	6000.0	presy@gmail.com	Employee	update	delete
5	Ishu	chennai	8903551622	100000.0	ishu@gmail.com	Admin	update	delete
6	jeeyaganapathy	Sellur	9994966372	200000.0	ammappa@gmail.com	Admin	update	delete
9	Ragu	Coimbatore	8610581465	500000.0	ragu@gmail.com	Admin	update	delete

Add Customer : [click here](#)

LogOut : [logout](#)



Windows taskbar showing various application icons and the system clock displaying 5:35 PM on 10/15/2019.

5. Updating email address in the Customer details where customer_id=6

Insert title here


localhost:8081/mvc5/allcustomers?EmpList=Manager&EmpList=Admin&EmpList=Employee

CUSTOMER INFORMATION

id	name	address	mobile	salary	update	delete	Employee	Emp email
2	preethy	Bangalore	9678648616	99999.0	preethy@gmail.com	Admin	update	delete
3	Aarthi	Madurai	9080706050	90000.0	aar@gmail.com	Manager	update	delete
4	prasanna	chennai	9080781284	6000.0	presy@gmail.com	Employee	update	delete
5	Ishu	chennai	8903551622	100000.0	ishu@gmail.com	Admin	update	delete
6	jevaganapathy	Sellur	9994966372	200000.0	fam@gmail.com	Admin	update	delete
9	Ragu	Coimbatore	8610581465	500000.0	ragu@gmail.com	Admin	update	delete

Add Customer : [click here](#)

LogOut : [logout](#)



Windows taskbar showing icons for various applications and the system clock displaying 5:38 PM on 10/15/2019.

6. Deleting the Customer with id=2

Insert title here


localhost:8081/mvc5/allcustomers?EmpList=Manager&EmpList=Admin&EmpList=Employee

CUSTOMER INFORMATION

id	name	address	mobile	salary	update	delete	Employee	Emp email
3	Aarthi	Madurai	9080706050	90000.0	aar@gmail.com	Manager	update	delete
4	prasanna	chennai	9080781284	6000.0	presy@gmail.com	Employee	update	delete
5	Ishu	chennai	8903551622	100000.0	ishu@gmail.com	Admin	update	delete
6	jevaganapathy	Sellur	9994966372	200000.0	fam@gmail.com	Admin	update	delete
9	Ragu	Coimbatore	8610581465	500000.0	ragu@gmail.com	Admin	update	delete

Add Customer : [click here](#)

LogOut : [logout](#)



Windows taskbar showing various application icons and the system clock displaying 5:43 PM on 10/15/2019.

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

```
MySQL 5.5 Command Line Client
6 rows in set (0.02 sec)

mysql> select * from user_access_table;
+-----+-----+-----+-----+-----+-----+
| id | active | email          | name | password | profile |
+-----+-----+-----+-----+-----+-----+
| 1 | 1 | preethy@gmail.com | pree | pree123 | admin |
| 2 | 1 | aar@gmail.com | aar | aar123 | Manager |
| 3 | 1 | presy@gmail.com | presy | presy123 | employee |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from custapp_access_table;
+-----+-----+-----+-----+-----+-----+-----+
| id | Employee | address | email          | mobile | name | salary |
+-----+-----+-----+-----+-----+-----+-----+
| 2 | Admin | Bangalore | preethy@gmail.com | 9678648616 | preethy | 99999 |
| 3 | Manager | Madurai | aar@gmail.com | 9080706050 | Aar | 90000 |
| 4 | Employee | chennai | presy@gmail.com | 9080781284 | prasanna | 6000 |
+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from custapp_access_table;
+-----+-----+-----+-----+-----+-----+-----+
| id | Employee | address | email          | mobile | name | salary |
+-----+-----+-----+-----+-----+-----+-----+
| 2 | Admin | Bangalore | preethy@gmail.com | 9678648616 | preethy | 99999 |
| 3 | Manager | Madurai | aar@gmail.com | 9080706050 | Aar | 90000 |
| 4 | Employee | chennai | presy@gmail.com | 9080781284 | prasanna | 6000 |
| 5 | Admin | chennai | ishu@gmail.com | 8903551622 | Ishu | 100000 |
+-----+-----+-----+-----+-----+-----+-----+
4 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.

