Project Documentation

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 insert,update,delete and can view all the customer details,manager can add and view the details and employee can only view the customer details.

Requirements Specifications

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

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,address,number,email.

Updating the Customer Details:

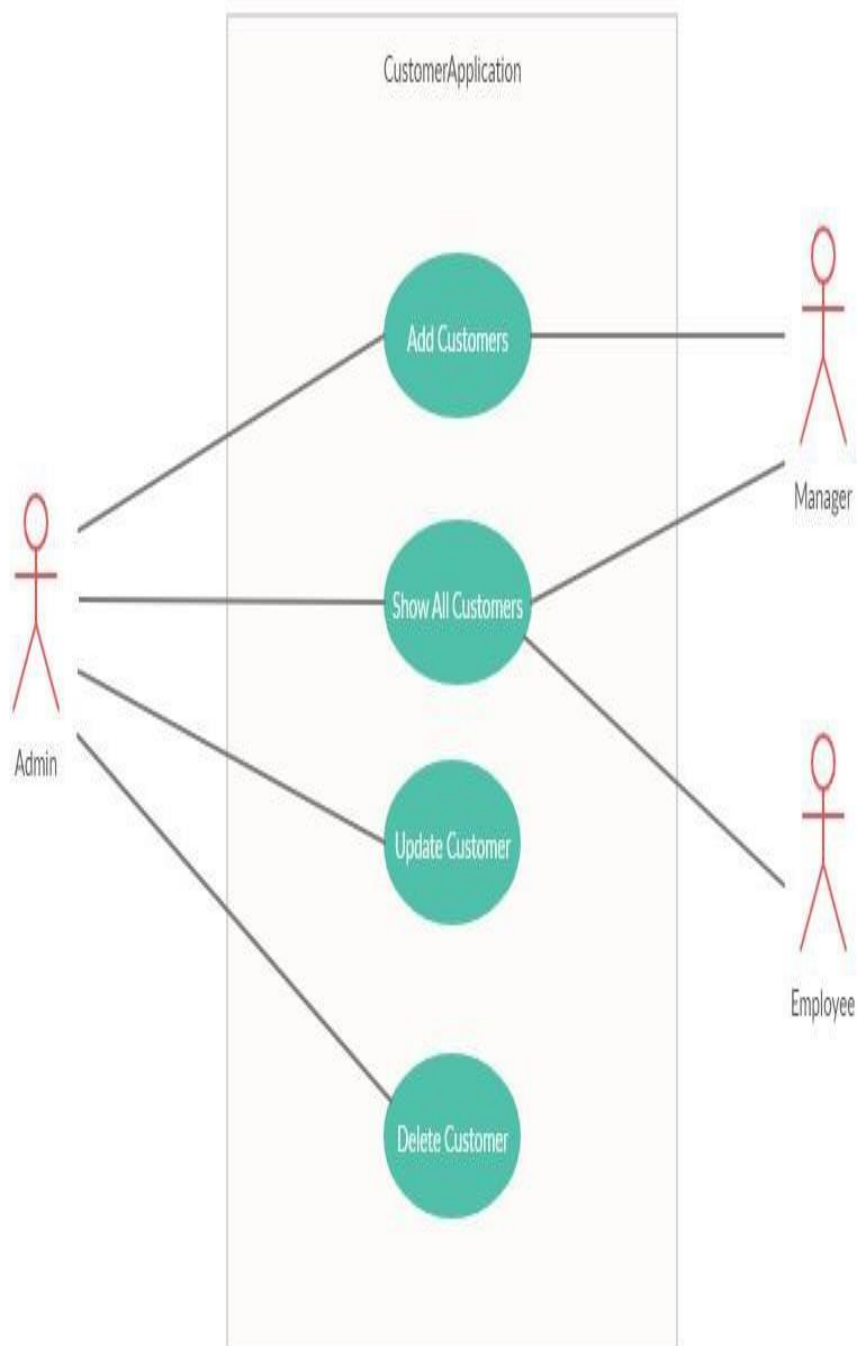Administrator can update the details of customer.

Deleting the Customer Details:

Administrator can delete the customer record.

Viewing the Customer Details:

Administrator,Manager and employee can view the customer details.

Use Case Diagram:

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.

Class Diagram:
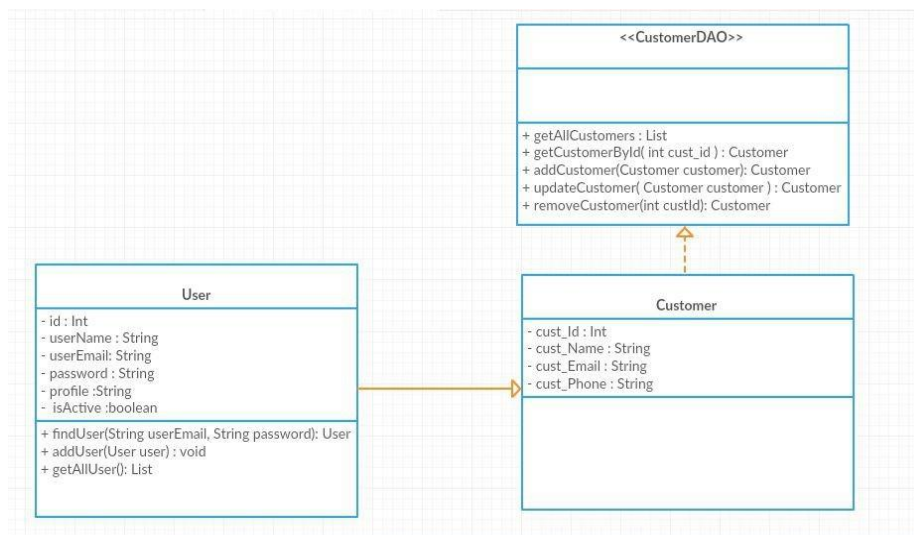
The details in the program here we have the admin,manager and employee details.

```
public void init() {
    userService.addUser(new User("pp", "pp@pp.com", "pp123", "admin",true));
    userService.addUser(new User("vyhsu", "vyshu@gmail.com", "vyshu123", "mgr",true));
    userService.addUser(new User("nikhil", "nikhil@gmail.com", "nikhil123","emp", true));
}
```
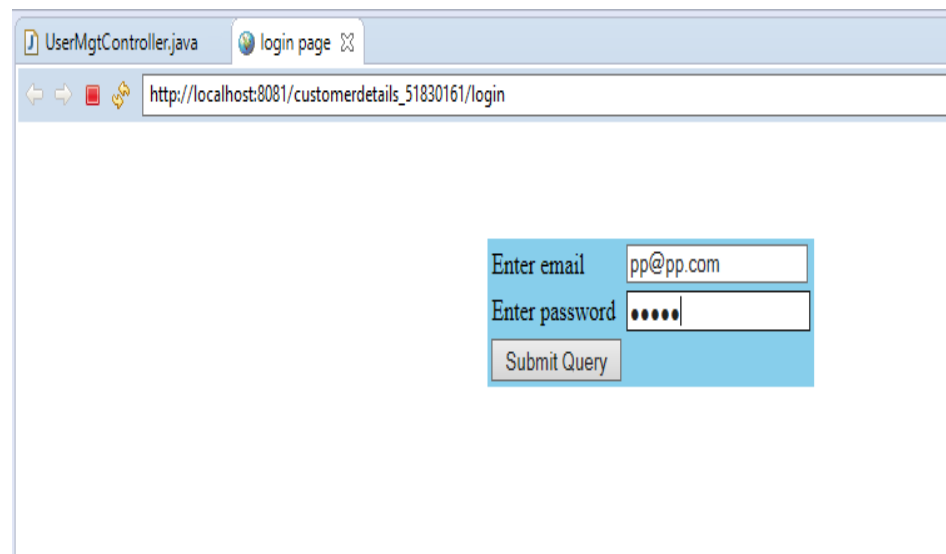
Implementation

The system is implemented using spring framework and hibernate. Front end of the system is implemented by Bootstrap.
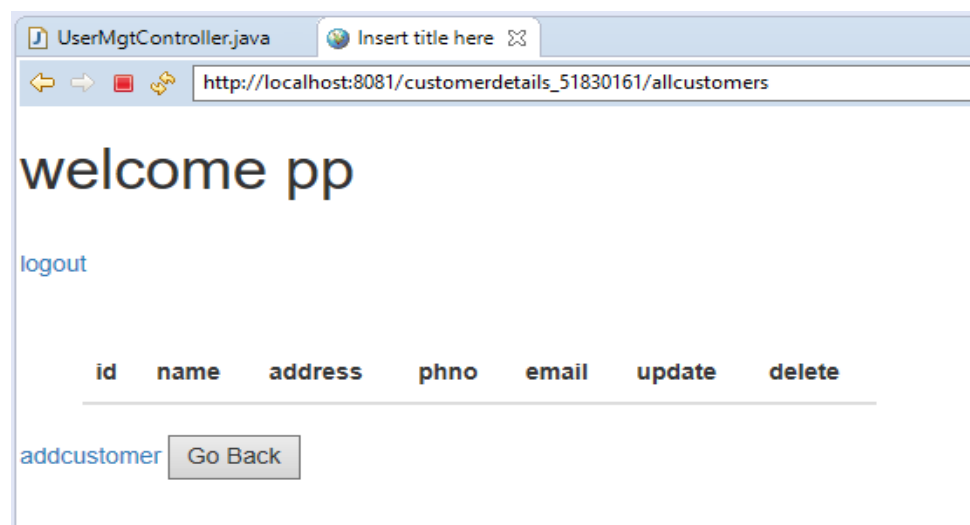
This contains the following modules:

Login module:

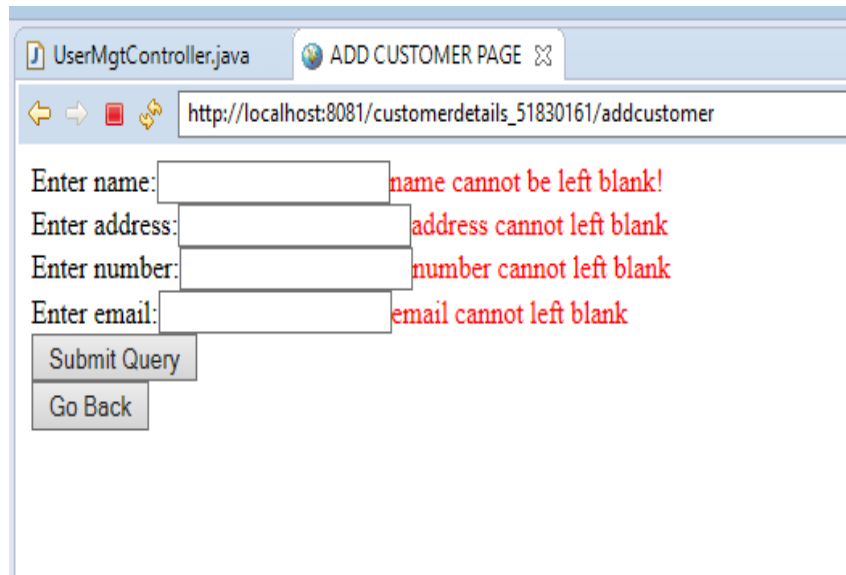User logs into the system using username and password. He/She views the system according to his profile.

Adding Customer module:

Name,Mobile,Email of the customer are added to the system. Administrator can add the details.
If we Enter Anything and press query then it shows error messages.
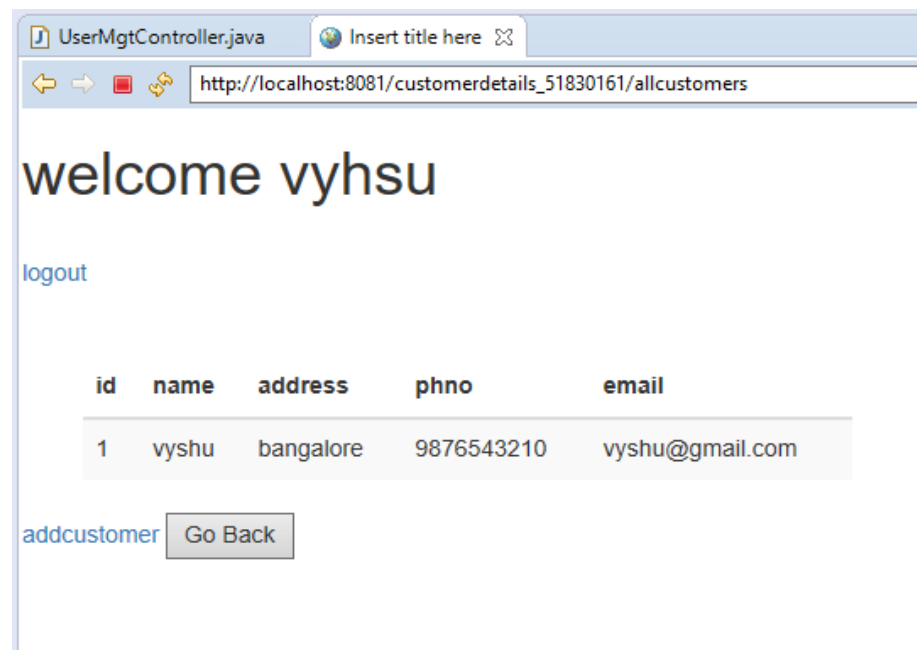**The admin can update and delete the customer deatails.**

Then we fill the details

And click submit then the customer details are added.
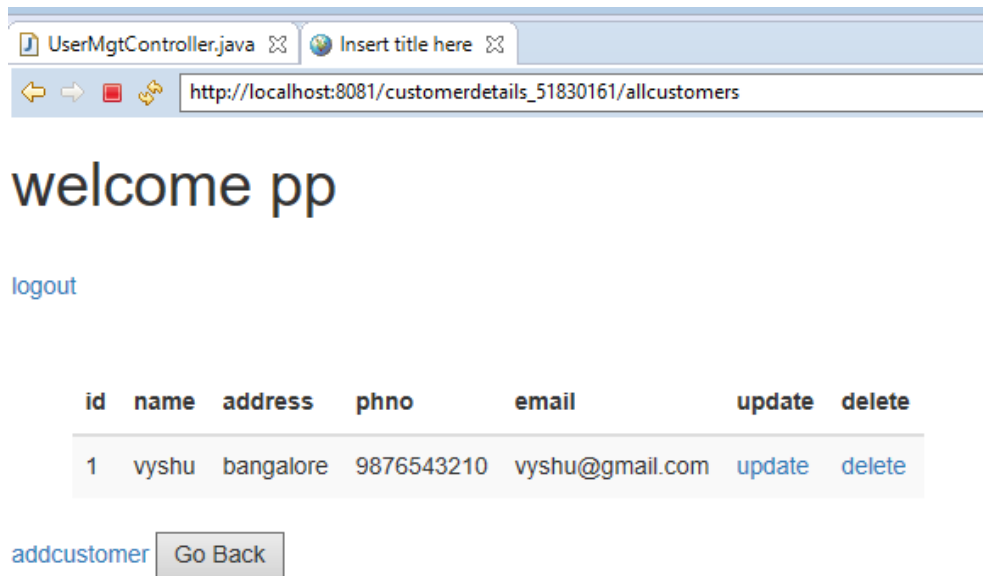
Manager only add the customer and show all the customers.

After adding the customer deatils.
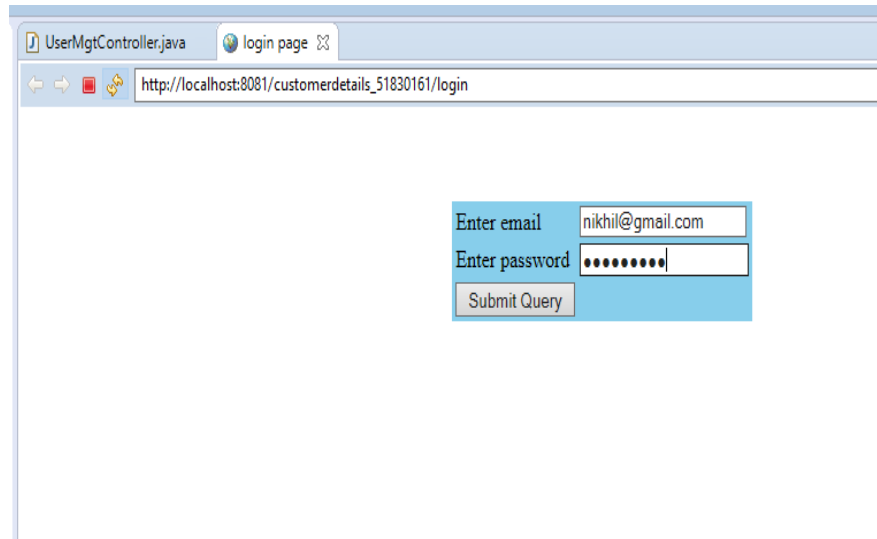
Employee show all customer details they cannot do add,update and delete opeartions.
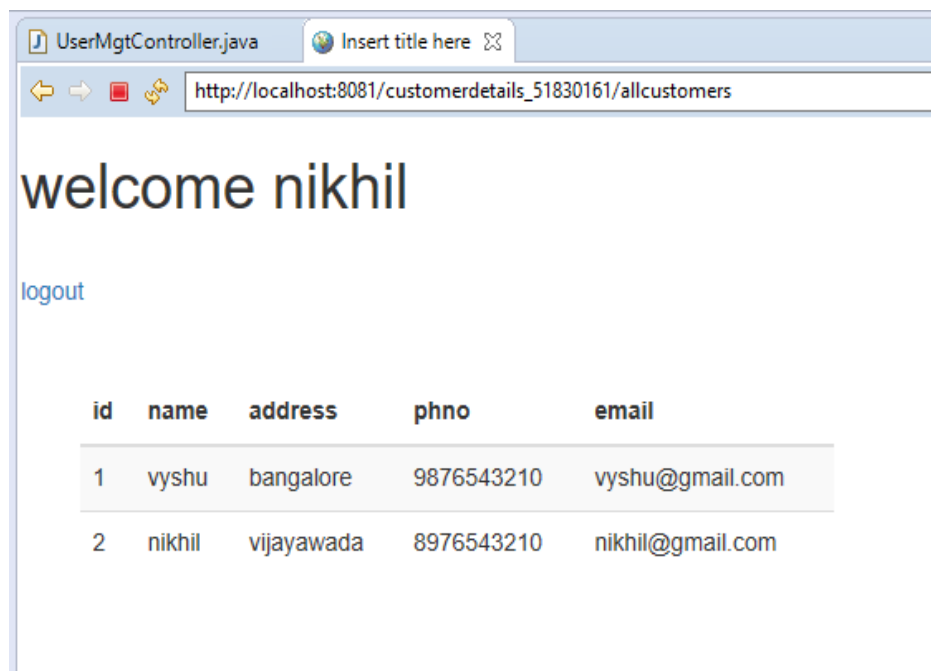
Here employee login in the app then

Here employee dosenot change any modifications. Employee can show the customer details only.

Updating Customer module:

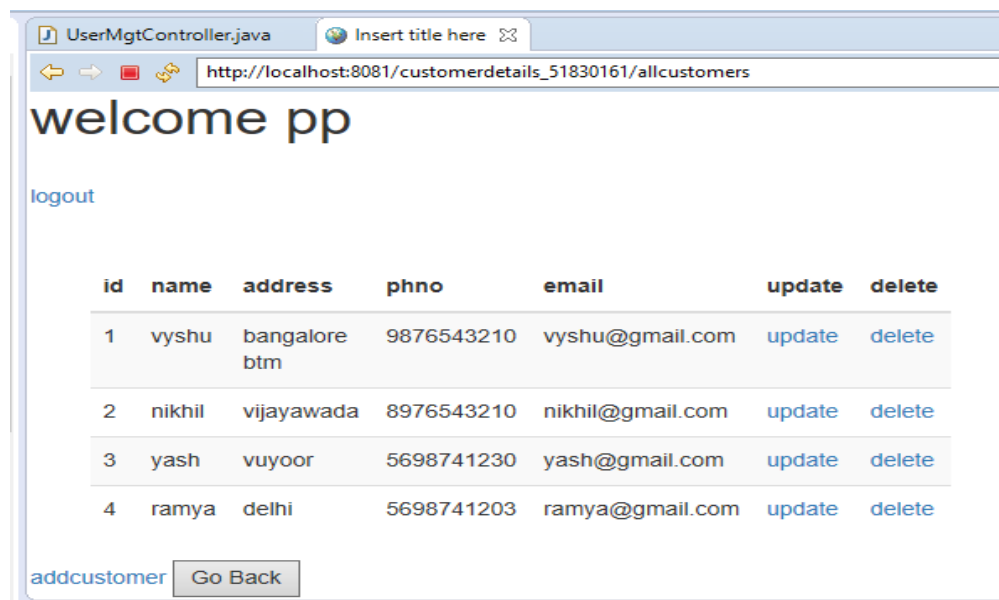Administrator updates the customer details. Phone number of Customer with address 1 is updated.
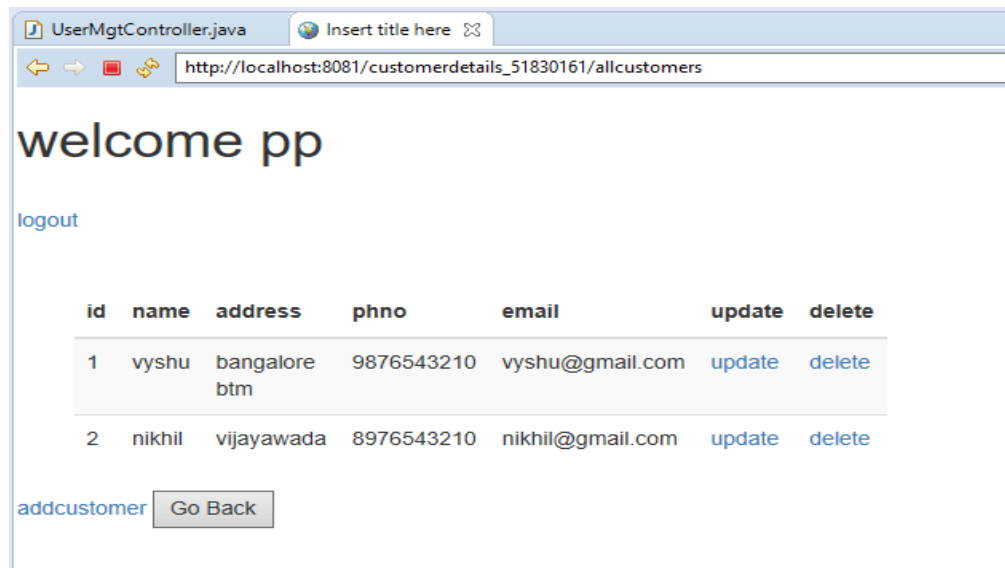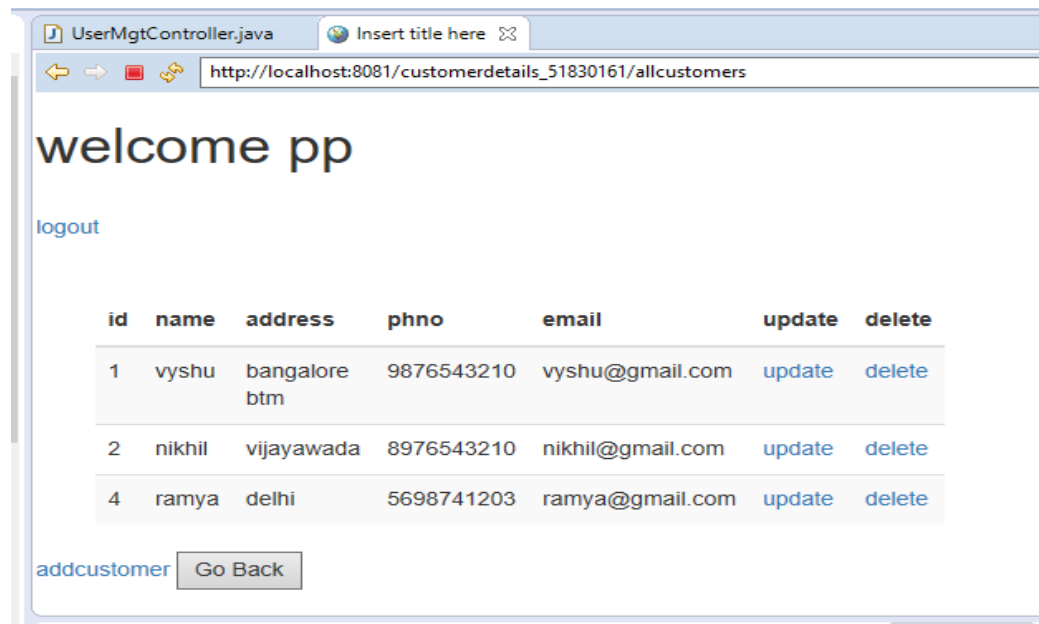

Deleting Customer module:

Administrator can delete the customer record. Before deleting the customer the table for all customers.

Record with customer id 3 is deleted.

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.