# 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:

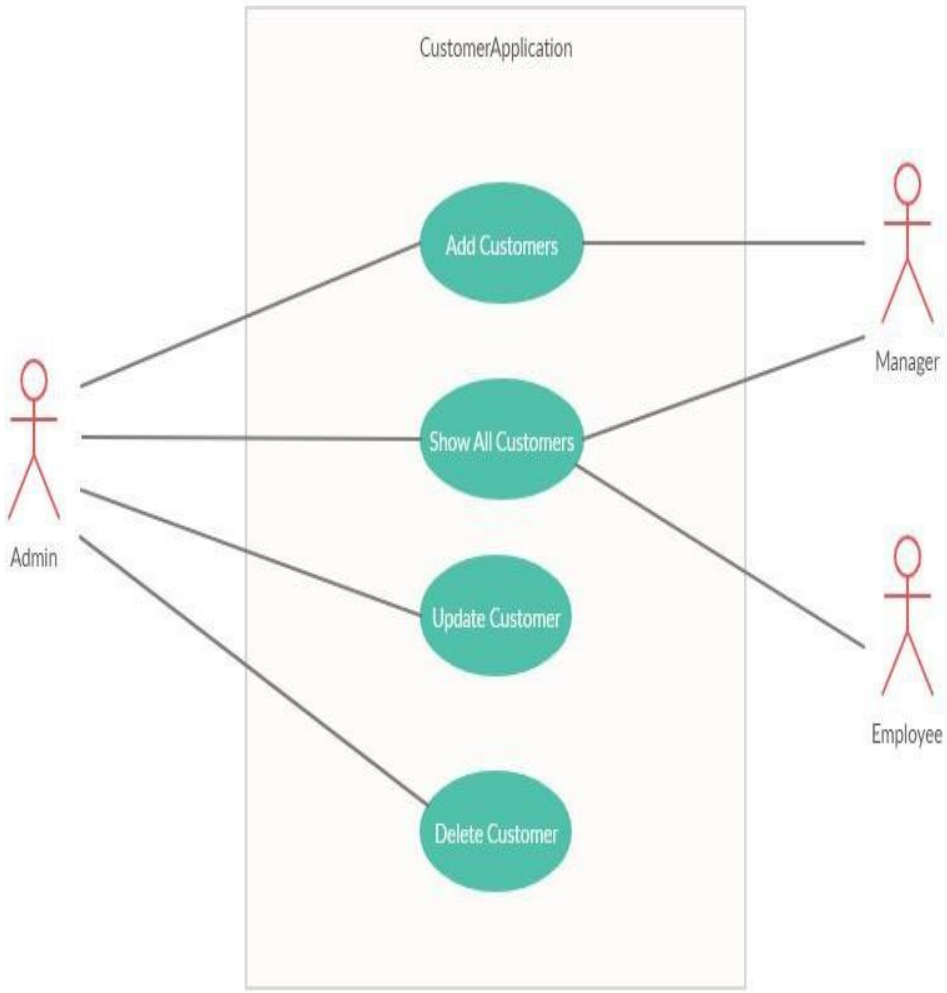
Adding Customer Details:
Adding the customer details by administrator and manager. Details includes Customer name,mobile,email.

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:

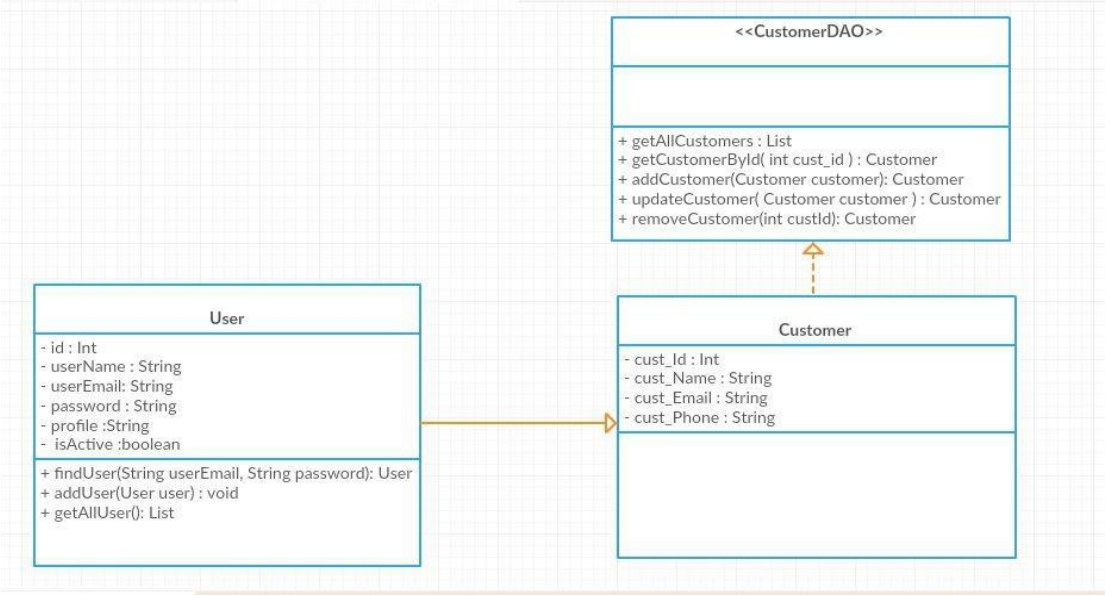



## Design

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

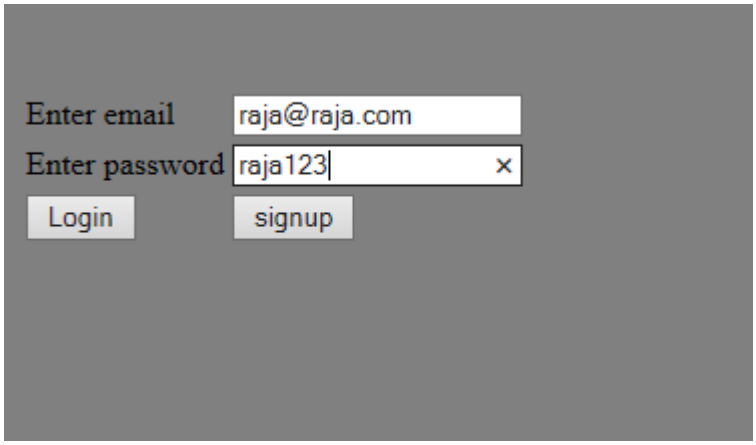



## Implementation

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,Address,city,companyname,phone,Email of the customer are added to the system. Administrator can add the details.

Enter name: geetha
Enter address: gobi
Enter city: erode
Enter companyname: Infosys
Enter phone: 9876543210
Enter email: geetha@r.com
Submit Query

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| id | name | address | city | companyname | phone | email | update | delete |
|---|---|---|---|---|---|---|---|---|
| 1 | priya | gobi | erode | HCL | 8675824000 | priya@gmail.com | update | delete |
| 3 | vasu | dharmapuri | salem | CTS | 9876543210 | vasu@v.com | update | delete |
| 4 | indhu | rameshwaram | madurai | TCS | 87878787 | indhu@i.com | update | delete |
| 5 | geetha | gobi | erode | Infosys | 9876543210 | geetha@r.com | update | delete |

add customer

**Deleting Customer module:**

Administrator can delete the customer record. Record with customer id 5 is deleted:

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| id | name | address | city | companyname | phone | email | update | delete |
|---|---|---|---|---|---|---|---|---|
| 1 | priya | gobi | erode | HCL | 8675824000 | priya@gmail.com | update | delete |
| 3 | vasu | dharmapuri | salem | CTS | 9876543210 | vasu@v.com | update | delete |
| 4 | indhu | rameshwaram | madurai | TCS | 87878787 | indhu@i.com | update | delete |

add customer

**Updating Customer module:**

Administrator updates the customer details. Phone number of Customer with id 6 is updated.

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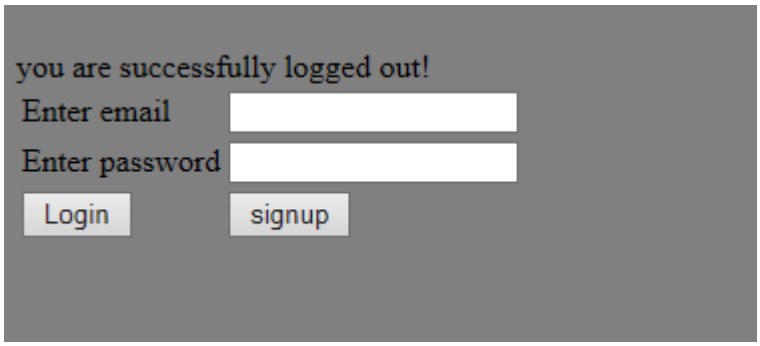
logout

| id | name | address | city | companyname | phone | email | update | delete |
|---|---|---|---|---|---|---|---|---|
| 1 | priya | gobi | erode | HCL | 8675824000 | priya@gmail.com | update | delete |
| 3 | vasu | dharmapuri | salem | CTS | 9876543210 | vasu@v.com | update | delete |
| 4 | indhu | coimbatore | avinashi | TCS | 9797979797 | indhu@i.com | update | delete |

add customer

## Logout:



## 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.