

**A PROJECT ON
“ONLINE PROFESSIONAL SERVICES AT DOORSTEP”**

SUBMITTED IN
PARTIAL FULFILLMENT OF THE REQUIREMENT
FOR THE COURSE OF DIPLOMA IN ADVANCED COMPUTING FROM CDAC



**SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY
Hinjawadi**

SUBMITTED BY:

Vipul Barhate

Swapnil Ashok Potdar

Wani Komal Ramesh

Siddhesh Patil

UNDER THE GUIDENCE OF:

Ms. Pooja Jaiswal

Faculty Member

Sunbeam Institute of Information Technology, PUNE

A PROJECT ON “ONLINE PROFESSIONAL SERVICES AT DOORSTEP”

SUBMITTED IN
PARTIAL FULFILLMENT OF THE REQUIREMENT
FOR THE COURSE OF
DIPLOMA IN ADVANCED COMPUTING FROM CDAC



SUNBEAM INSTITUTE OF INFORMATION TECHNOLOGY
Hinjawadi

SUBMITTED BY:

**Vipul Barhate
Swapnil Ashok Potdar
Wani Komal Ramesh
Siddhesh Patil**

UNDER THE GUIDENCE OF:

Ms. Pooja Jaiswal

Faculty Member

Sunbeam Institute of Information Technology, PUNE.



CERTIFICATE

This is to certify that the project work under the title 'Online Railway Reservation System' is done by **Vipul Barhate, Swapnil Ashok Potdar, Wani Komal Ramesh and Siddhesh Patil** in partial fulfillment of the requirement for award of Diploma in Advanced Computing Course.

Ms. Pooja Jaiswal

Project Guide

Mr. Yogesh Kolhe

Course Co-Coordinator

Date: 29/09/2022

ACKNOWLEDGEMENT

A project usually falls short of its expectation unless aided and guided by the right persons at the right time. We avail this opportunity to express our deep sense of gratitude towards Mr. Nitin Kudale (Center Coordinator, SIIT, Pune) and Mr. Yogesh Kolhe (Course Coordinator, SIIT ,Pune) .

We are deeply indebted and grateful to them for their guidance, encouragement and deep concern for our project. Without their critical evaluation and suggestions at every stage of the project, this project could never have reached its present form.

Last but not the least we thank the entire faculty and the staff members of Sunbeam Institute of Information Technology, Pune for their support.

Vipul Barhate
Swapnil Ashok
Potdar
Wani Komal
Ramesh
Siddhesh Patil

eDAC Mar 22
Batch,SIIT Pune

Index

SR NO.	TOPICS	PAGE NO.
1	INTRODUCTION	3
	1.1 Overall Description	3
	1.2 Technology Used	3
	1.3 Problem Formulation	4
	1.4 Need of Project	4
2	REVIEW OF LITERATURE	4
3	SYSTEM ANALYSIS	6
	3.1 Functional Requirements	8
	3.2 Non-Functional Requirements	9
	3.3 Architecture Diagram	12
4	ANALYSIS MODELING	14
	4.1 Activity Diagrams	14
	4.2 Class Diagrams	14
	4.3 Sequence Diagram	15
	4.4 Data Model	15
5	DESIGN	16
	5.1 Project Architecture 5.2 Data Modeling (E-R Model)	17
	5.3 User Interface Design	17
6	TESTING	18
	6.1 Type of Testing Used	18
	6.2 Test Cases	19
7	RESULT AND DISCUSSIONS	20
7	CONCLUSION AND FUTURE SCOPE	22

9	REFERENCES	24
---	------------	----

1. INTRODUCTION

‘PSD - Professional Services at Doorstep’ is the platform that connects customers and professionals. In this, Customers can search the services based on their own criteria and get their job done by the professionals. This platform not only provides services to customers but also provide job to unemployed and talented professionals.

It is all-in-one platform for various at-home services. The application can be used to hire professionals for many at-home services like Plumbing, Carpentry, Washing Machine repair, AC repair, Pest Control, painting etc. simply it allows the users to connect with skilled and experienced professionals for at-home services.

1.1 Overall Description

- The main objective of our project is to provide job to unemployed, talented, trustworthy people and also to provide instant services to our customers.
- In this project customer can hire employee according to their requirements and according to their time to get their job done.

1.2 Technology Used

➤ BACK END

Framework	Spring Boot
ORM Tool	Hibernate
Database	MySQL
Build Tool	Maven
Language	Java

➤ FRONT END

React Axios
Bootstrap

User End:

- The user can use the app if they are looking for a professional to perform a specific in-house service.
- They can choose any service from the list of services mentioned.
- Once they choose a particular service, a pop up will come which contains various professionals list and their rate of working per hour. User can select the employee according to their budget.
- After this, they are asked to choose suitable date and time.
- The app allows the user to check the profile of the professional to see their qualities.
- User can also rate and post a review of the service.

Service Provider End:

- The service provider can be listed only after several background checking such as NOC certificate, Aadhar Number etc.
- Once the user selects a service, the service provider can accept or reject the offer according to his willing.
- The service provider can only charge the customer according to his rate of working per hour including all the taxes.
- He can reply to customer reviews/feedback.

Admin Panel Features:

- Full Admin Control Panel.
- Can see list of all Professional from various categories.
- Can see list of all customers' orders in the orders list.
- Can Add or Delete the Employees and Customers.
- Can set the prices of professionals according to feedback/reviews of the customers.

1.3 Problem Formulation:

For the majority of the people, it is hard to find the trustworthy and experienced professional for their in-house work. Professionals are also struggling to find work. Therefore, to solve these two problems, our application platform known as Professional Services at Doorstep can be found as a medium to resolve these problem. Through platform user can find professionals for their in-house work through various categories of our application and also the professionals can also find some work.

1.4 Need of Project:

- Now a day it is very difficult to find the trustworthy and experienced professionals of various categories at one single place so our platform can provide the services to the users as well as professionals.
- Professional Services at Doorstep provides a platform that allows skilled and experienced professionals to connect with the users looking for specific service.
- It enables users to find any service professionals like Plumber, Painter, Event-Planner, and Carpenters etc. which are listed on our platform.
- Our platform is the best way that a small business can reach with the seekers through our application and connect with the local audience by showing their services online.

2. REVIEW OF LITERATURE

There are many online home service systems in existence which are discussed briefly in this section.

Urban Pro is the framework which initially began their online help for connecting the scholars with the mentors, trainers and institutes.

This was one among the explanations for the emerging of providing the web domestic services.

Time saverz is one among the web home service system where the customer has given rewards for the services offered and a refund if the customer isn't satisfied with the services. This service is provided in Delhi, Noida, Gurgaon, Hyderabad, Bangalore, Pune, Mumbai and Chennai.

Zimmer has provided the house services but they need enlisted the providers in order that the purchasers can rest their worries. This application provides the services only within the urban cities like Pune and Bangalore. This system acts as a platform not just for offering services but also for the hiring of professionals.

3. SYSTEM ANALYSIS

3.1 Functional Requirements

3.1.1 Login of Admin

- The system will allow the admin to view Employees and customers.
- The system will allow the admin to search employee from Employee List.
- The system will allow the admin to add new profession.
- The system will allow the admin to verify, add and delete employee.
- The system will allow the admin to delete customer account.

3.1.2 Login and Register of Customer

- The system will allow Customer to Register.
- The system will allow Customer to view all orders
- The system will allow Customer to make payment.
- The system will allow the Customer to see Booking status.
- The system will allow Customer to update own details.
- The system will allow Customer to cancel the booking.
- The system will allow Customer to contact customer support via WhatsApp or email.
- The system will allow Customer to give feedback once service completed.

3.1.3 Register of Service Professional

- The system will allow Service Professional to share their details.
- Once the Professional get verify by the admin, he can assist the customer for the requested service.

3.2 Non-functional Requirements

3.2.1 Performance Requirements

The system should store all the database records of Customers, Professionals, and the hire request should be available for use 24*7 through the server. Also, the application should be user friendly with a proper user interface which makes it easy for the user to understand. All the options should be present in properly accessible places for user convenience.

3.2.2 Safety Requirements

All login ids and passwords of the Admin, Employee and Customer should be protected for privacy using whatever constraints required in the database or the application.

3.2.3 Security Requirements

Passwords of the Admin, Employee and Customer should be protected for privacy using whatever constraints required in the database or the application. User's password should be saved in encrypted format so that intruder cannot know the password of user. All passwords should be stored as a secure hash of the administrator password.

3.2.4 Software Quality Attributes

3.2.4.1 Availability

The system should run on a variety of operating systems that support the Web browser and has internet connection. The system should run on a variety of hardware.

3.2.4.2 Accessibility

The software will be accessible to admin, police station and police employees.

3.2.4.3 Compatibility

The software will be compatible with multiple platforms.

3.2.4.4 Durability

The software will be tested for working with multiple users and records as system has to manage multiple users (admin, employee) and records (Employee list, Charges, Order List, Notifications).

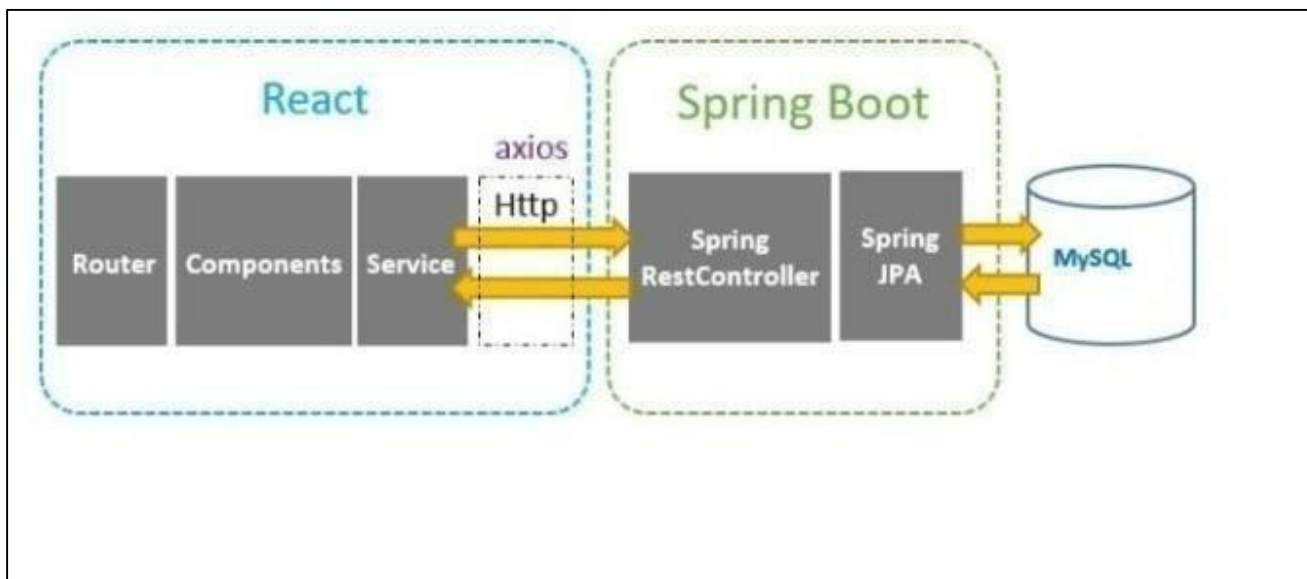
3.2.4.5 Effectiveness

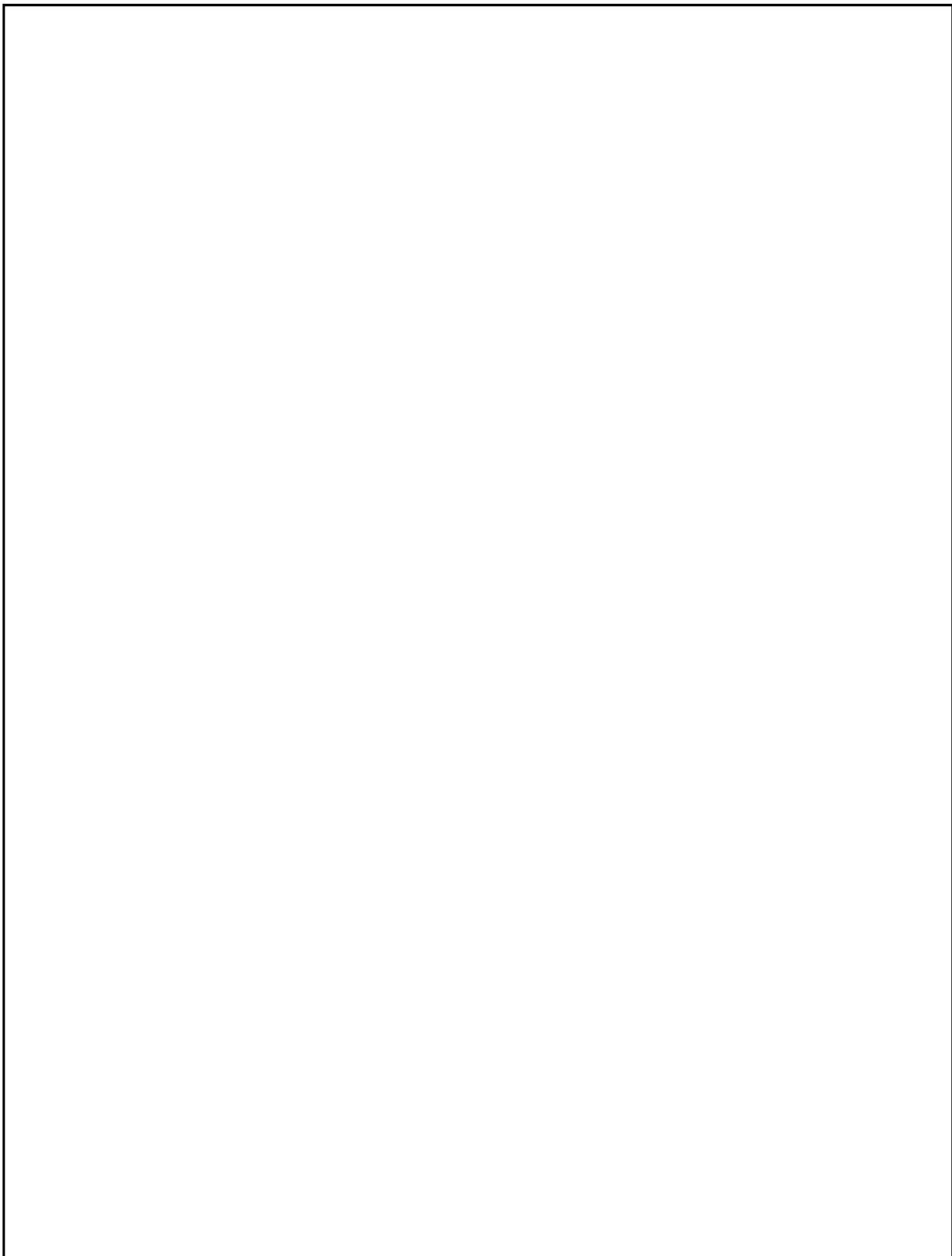
The software will be made to handle operations effectively.

3.2.4.6 Maintainability

The system should be easy to maintain. There should be a clear separation between the interface and the business logic code. There should be a clear separation between the data access objects that map the database and the business logic code.

Project Architecture Diagram:

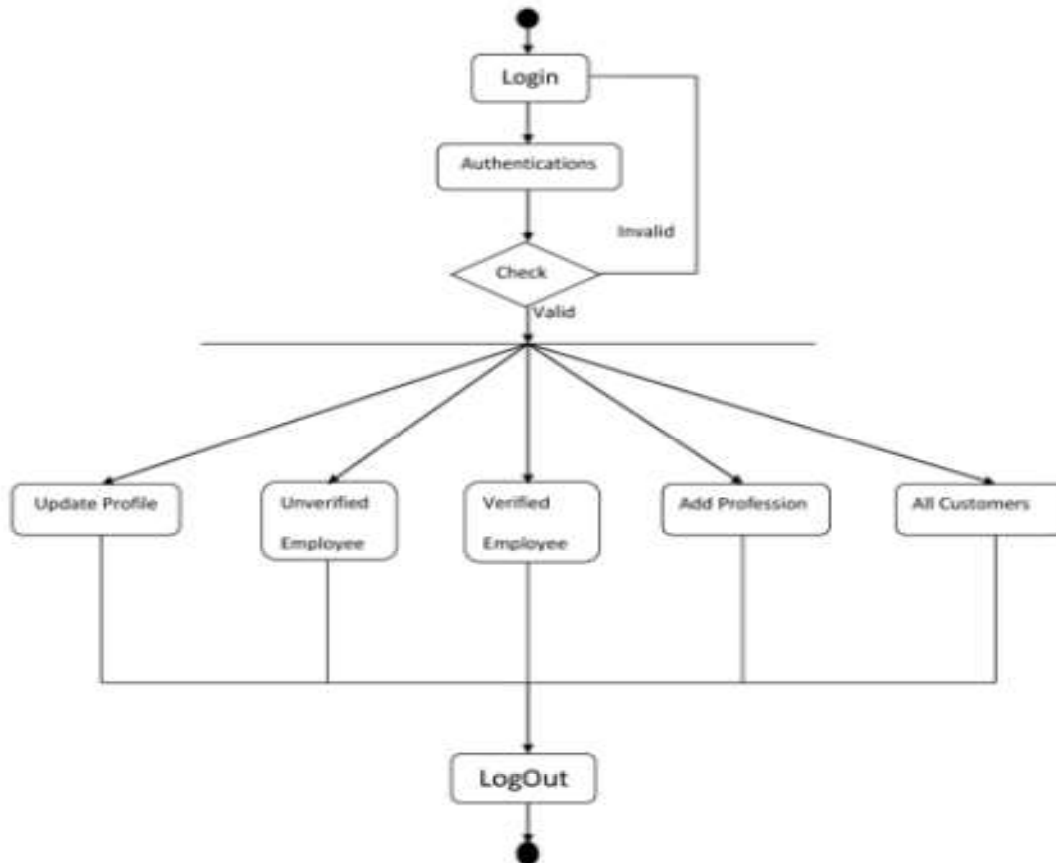




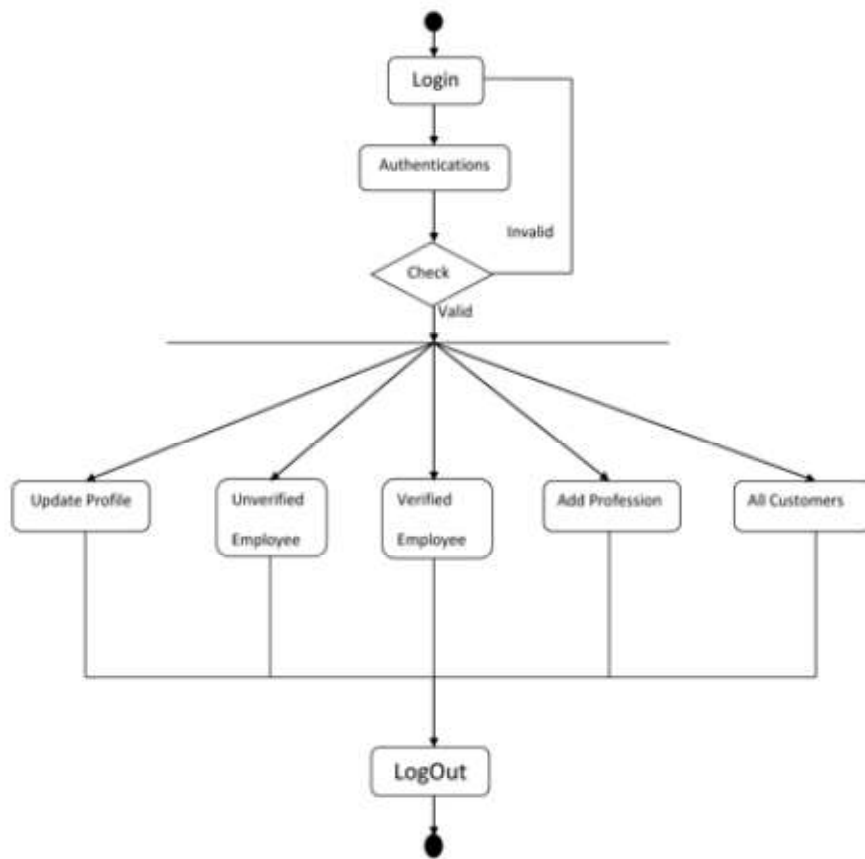
4. ANALYSIS MODELING

4.1 Activity Diagrams

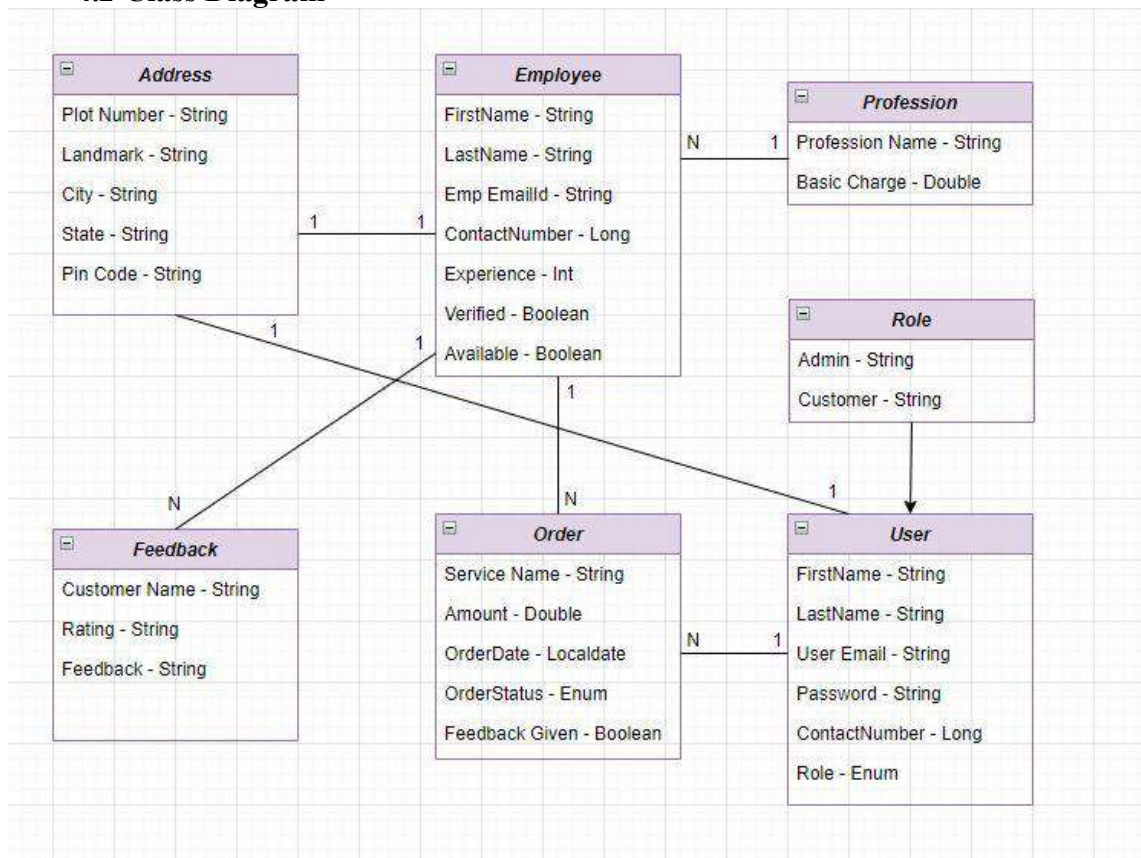
4.1.1 Customer Activity Diagram

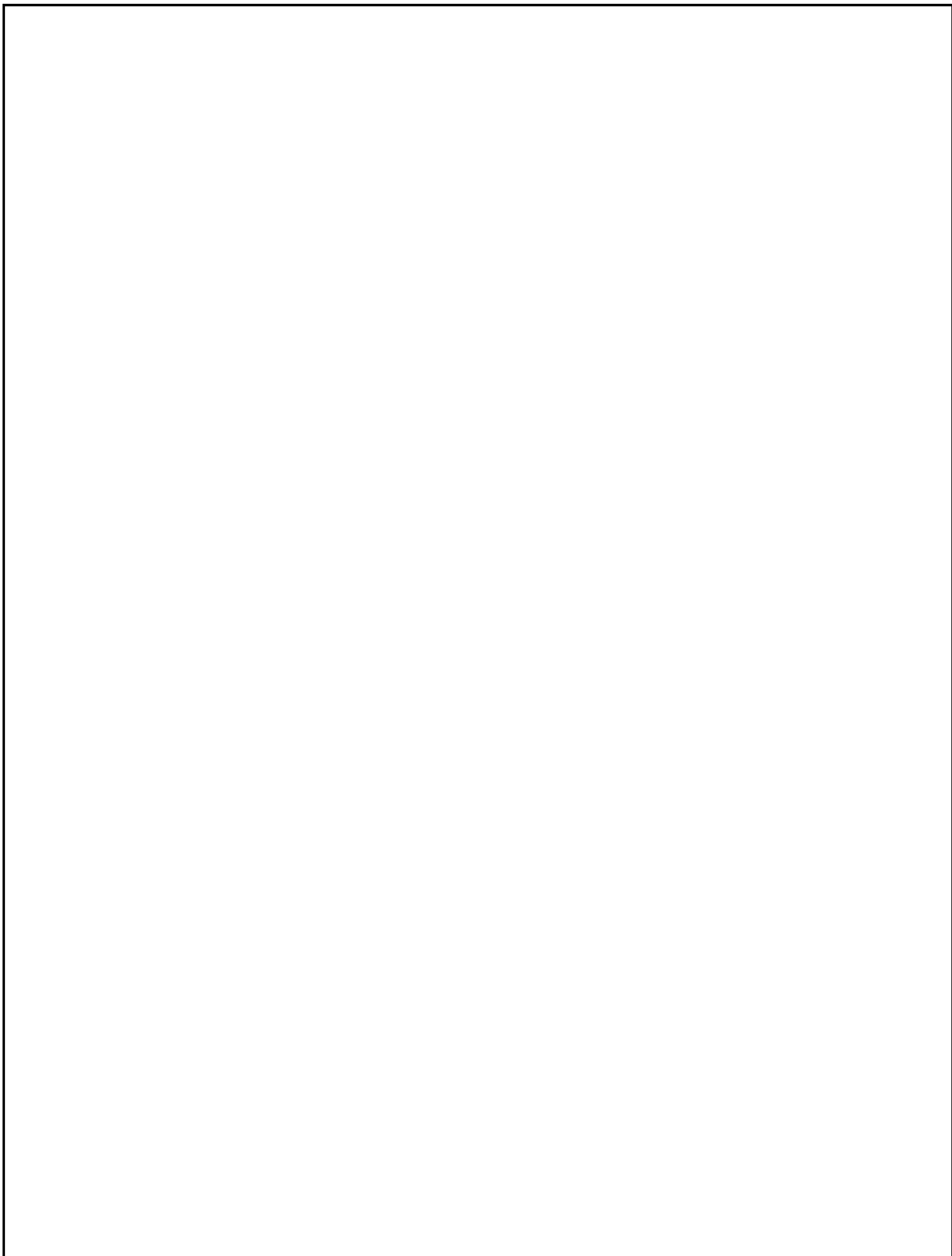


4.1.2 Admin Activity Diagram



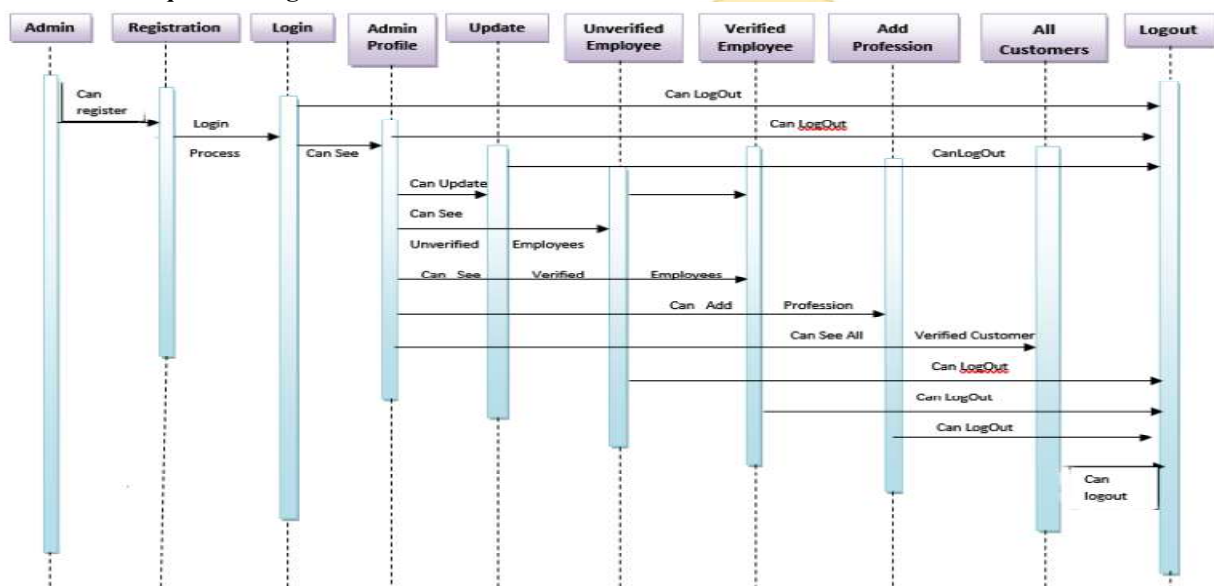
4.2 Class Diagram



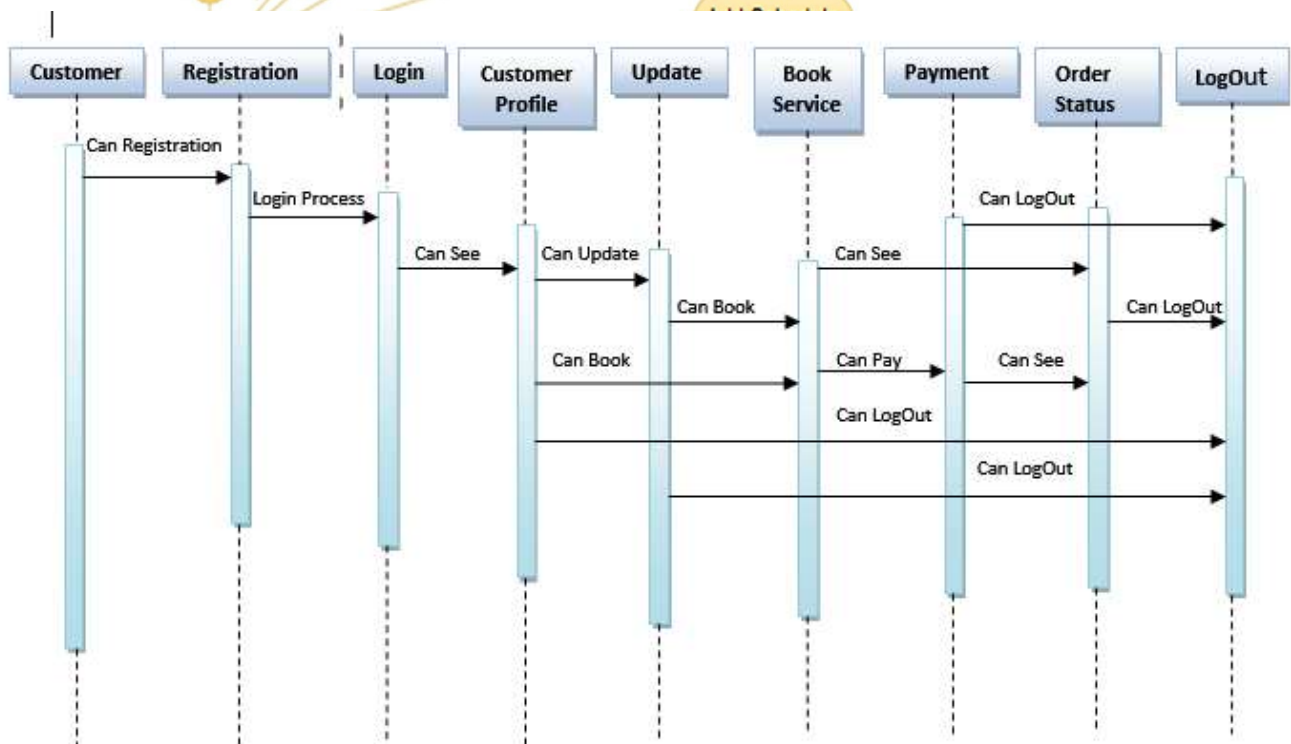


4.3 Sequence Diagram

4.3.1 Admin Sequence Diagram:



4.3.2 Customer Sequence Diagram:



4.4 Data Model:

The following table structures depict the database design.

4.4.1 TABLES:

1. Tables in Professional Services at Doorstep

```
Database changed
D5_VIPUL_63282>show tables;
+-----+
| Tables_in_psd |
+-----+
| address        |
| admin_customers |
| contact_us     |
| employees      |
| feedbacks      |
| orders         |
| professions     |
+-----+
7 rows in set (0.00 sec)
```

2. Address Table

```
D5_VIPUL_63282>desc address;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra      |
+-----+-----+-----+-----+-----+-----+
| id         | int       | NO   | PRI | NULL    | auto_increment |
| city       | varchar(20) | NO   |     | NULL    |               |
| landmark   | varchar(50) | YES  |     | NULL    |               |
| pincode    | varchar(20) | YES  |     | NULL    |               |
| plot_number | varchar(50) | YES  |     | NULL    |               |
| state      | varchar(20) | YES  |     | NULL    |               |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

3. Admin customers Table

```
D5_VIPUL_63282>desc admin_customers;
+-----+-----+-----+-----+-----+-----+
| Field          | Type      | Null | Key | Default | Extra      |
+-----+-----+-----+-----+-----+-----+
| id             | int       | NO   | PRI | NULL    | auto_increment |
| contact_number | bigint    | YES  |     | NULL    |               |
| first_name     | varchar(15) | NO   |     | NULL    |               |
| last_name      | varchar(15) | NO   |     | NULL    |               |
| password       | varchar(20) | NO   |     | NULL    |               |
| role           | varchar(20) | YES  |     | NULL    |               |
| user_email     | varchar(30) | NO   | UNI | NULL    |               |
| address_id     | int       | YES  | MUL | NULL    |               |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.01 sec)
```

4. Employees Table

```
D5_VIPUL_63282>desc employees;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
available	bit(1)	NO		NULL	
contact_number	bigint	YES		NULL	
emp_email	varchar(30)	NO	UNI	NULL	
experience	int	NO		NULL	
first_name	varchar(15)	NO		NULL	
last_name	varchar(15)	NO		NULL	
verified	bit(1)	NO		NULL	
address_id	int	YES	MUL	NULL	
prof_id	int	NO	MUL	NULL	

```
10 rows in set (0.01 sec)
```

5. Feedback Table

```
D5_VIPUL_63282>desc feedbacks;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
customer_name	varchar(255)	YES		NULL	
feedback	varchar(500)	YES		NULL	
rating	varchar(255)	YES		NULL	
emp_id	int	NO	MUL	NULL	

```
5 rows in set (0.01 sec)
```

6. Profession Table

```
D5_VIPUL_63282>desc professions;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
basic_charge	double	YES		NULL	
prof_name	varchar(15)	NO	UNI	NULL	

```
3 rows in set (0.01 sec)
```

7. Orders Table

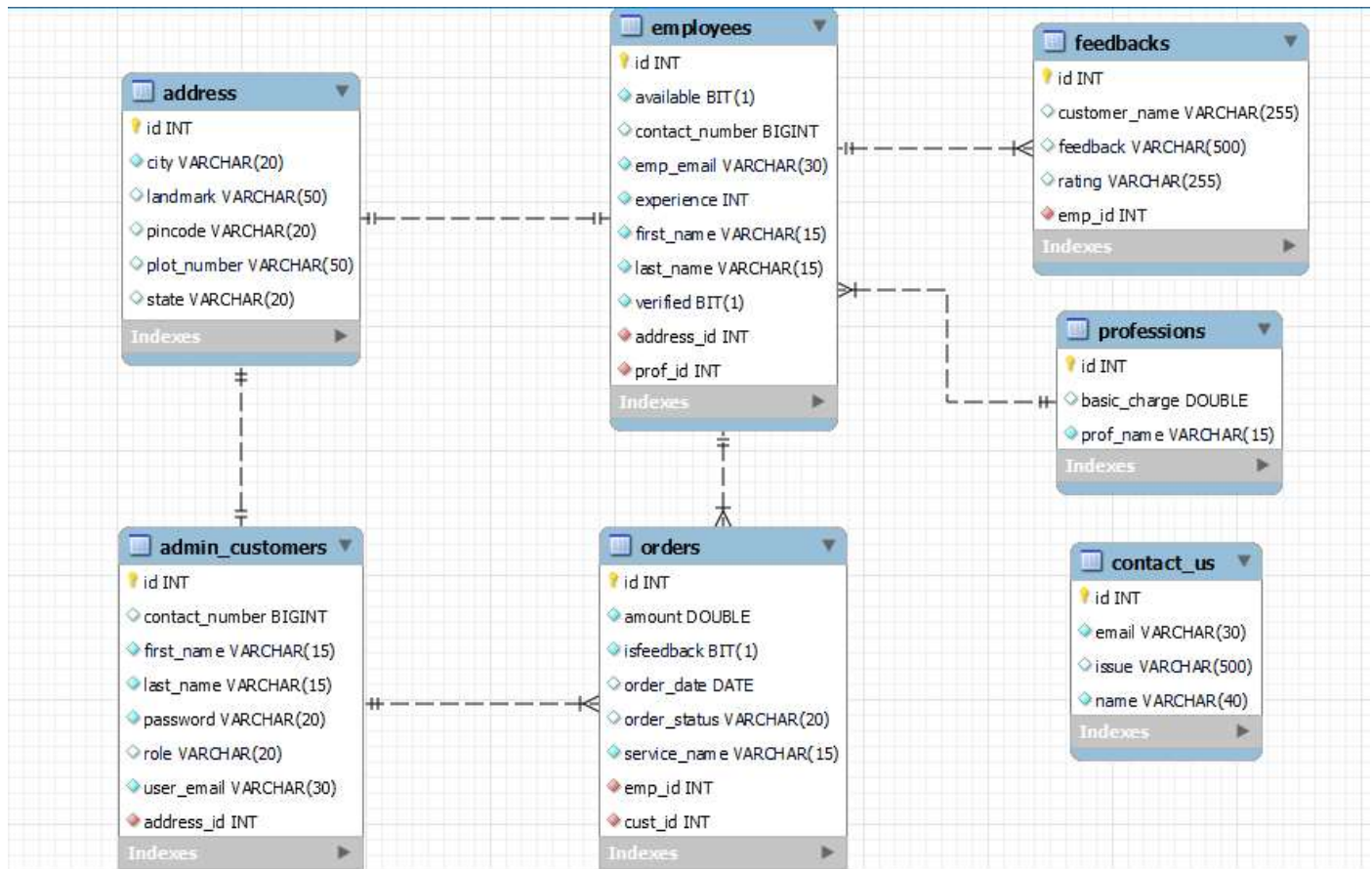
```
D5_VIPUL_63282>desc orders;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
amount	double	NO		NULL	
isfeedback	bit(1)	NO		NULL	
order_date	date	YES		NULL	
order_status	varchar(20)	YES		NULL	
service_name	varchar(15)	NO		NULL	
emp_id	int	YES	MUL	NULL	
cust_id	int	YES	MUL	NULL	

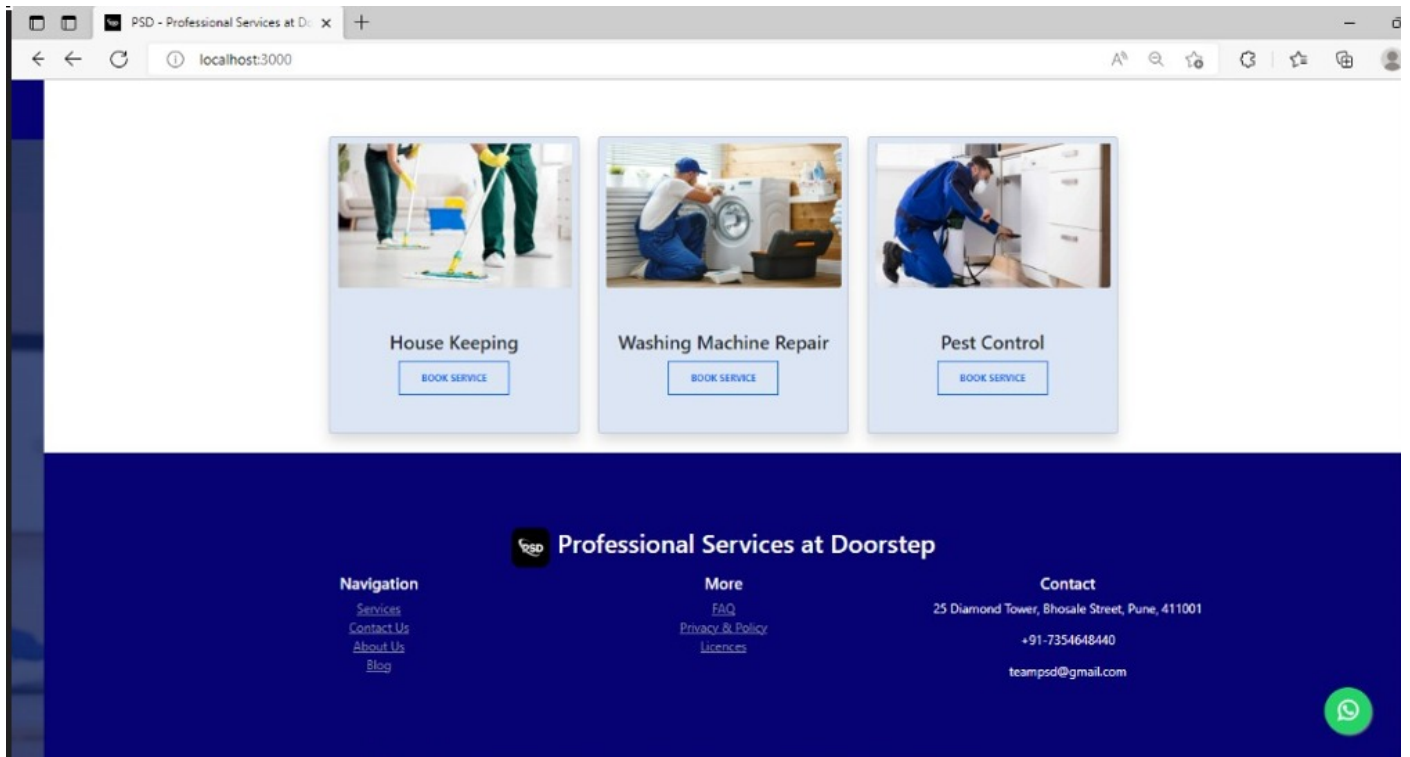
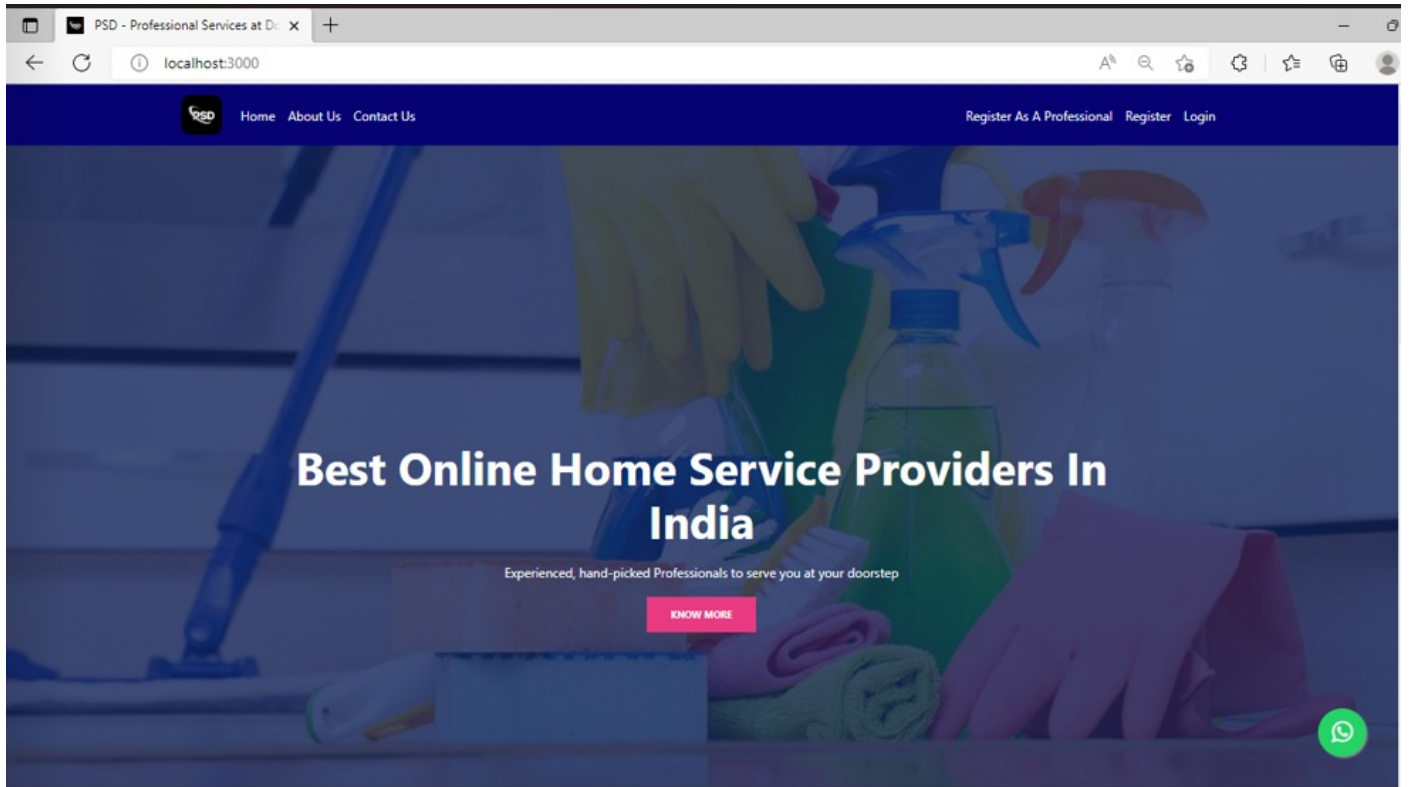
```
8 rows in set (0.01 sec)
```

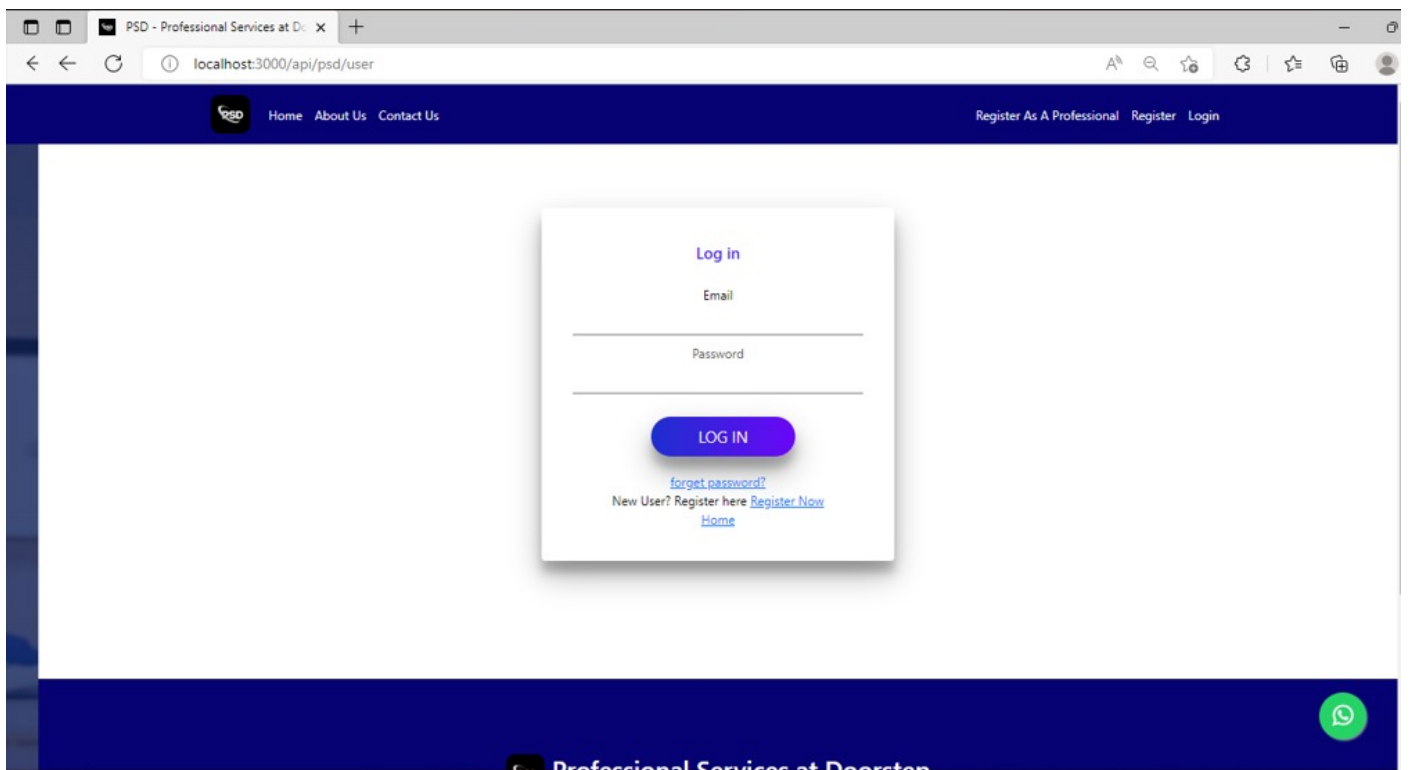
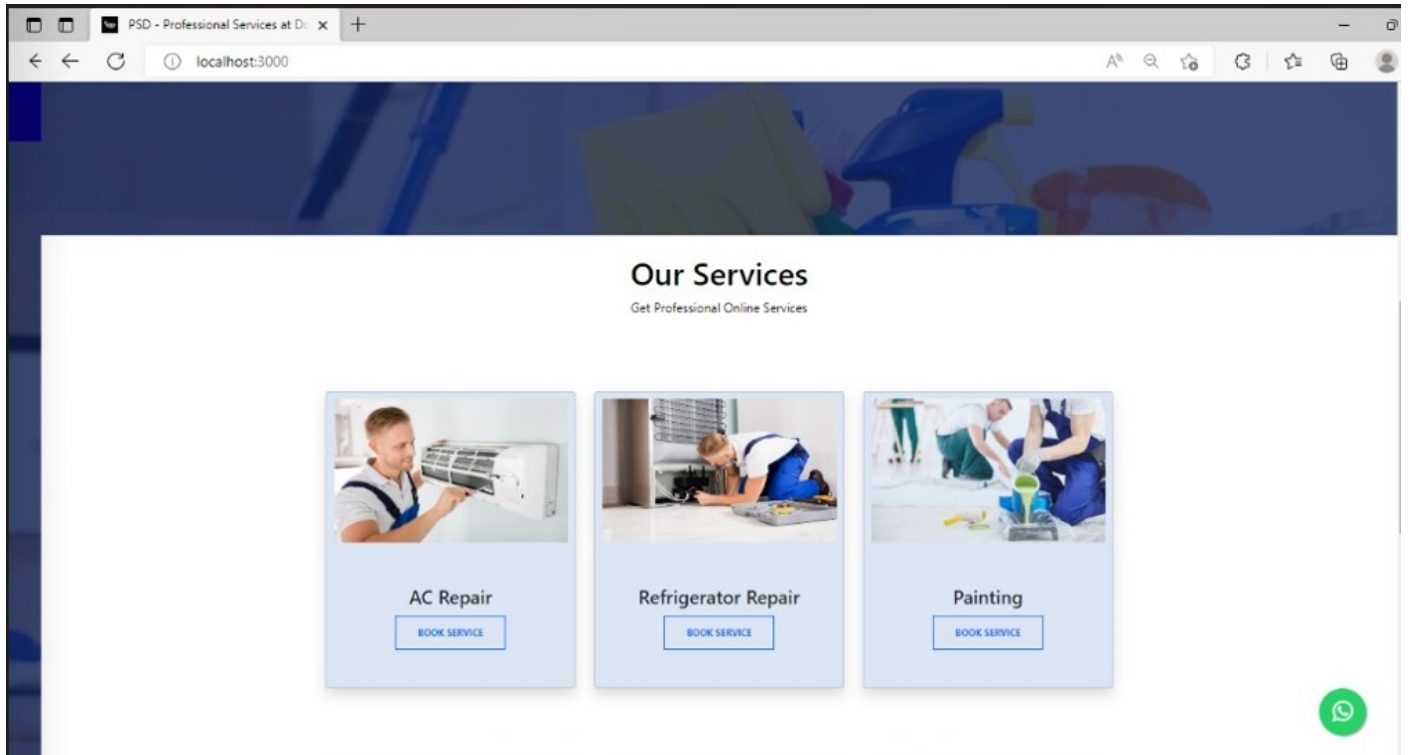
5. DESIGN

5.1 Data Modelling (E-R Model)



5.2 User Interface Design: GUI of our project






PSD - Professional Services at D...
localhost:3000/api/psd/register

Home About Us Contact Us Register As A Professional Register Login

Register Account

First Name	Last Name
Contact Number	Email
Password	Plot No.
Landmark	City
State	Pincode

REGISTER



PSD - Professional Services at D...
localhost:3000/api/psd/employee


Home About Us Contact Us Register As A Professional Register Login

Share Your Details

We will get back to you soon

First Name	Last Name
Contact Number	Email
Plot No.	Landmark
City	State
Pincode	Experience
Profession Name	

REGISTER



PSD - Professional Services at Doorstep

localhost:3000/api/psd/user/Profile

Home

About Us

Contact Us

Profile

Logout

My Profile

Update Profile

Unverified Employees

Verified Employees

Services

All customers

Personal Details

FirstName

ravindra

LastName

barhate

Email

rb98989@gmail.com

Contact Number

8770300598

Address Details

Plot No.

3

Landmark

ganpati naka

City

neapanagar

State

mh

Pincode

450331

PSD - Professional Services at Doorstep

localhost:3000/api/psd/user/Profile

Home

About Us

Contact Us

Profile

Logout

My Profile

Update Profile

Unverified Employees

Verified Employees

Services

All customers

List of All Customers

Search By Email

Firstname	lastname	Email	ContactNumber	City	
Dolly	barhate	vr98989@gmail.com	8770300598	napanagar	DELETE
Rahul	Sawle	tp98989@gmail.com	8770300598	napanagar	DELETE
Uday	kolhe	uk98989@gmail.com	8770300598	napanagar	DELETE
umesh	barhate	ub98989@gmail.com	8770300598	napanagar	DELETE
Swapnil	potdar	vr6619@gmail.com	8770300598	Jalgaon	DELETE
Tejas	kolhe	tk98989@gmail.com	8770300598	napanagar	DELETE
Devendra	kolhe	dk98989@gmail.com	8770300598	napanagar	DELETE

Professional Services at Doorstep

PSD - Professional Services at Doorstep

localhost:3000/api/psd/user/Profile

Home About Us Contact Us Profile Logout

My Profile

Update Profile

My Orders

Book Service

My Orders List

OrderID	Amount	Date	Service	Status	Emp Assist		
18	1000	2022-09-26	Ac Repair	PENDING	Narendra solanki	PAYMENT	CANCEL
17	1000	2022-09-25	Ac Repair	COMPLETED	Narendra solanki	FEEDBACK	
16	1000	2022-09-24	Ac Repair	COMPLETED	Narendra solanki	FEEDBACK	
15	1200	2022-09-24	House Keeping	COMPLETED	Mayur mahajan	FEEDBACK	
14	1000	2022-09-23	Ac Repair	COMPLETED	Narendra solanki	FEEDBACK	
13	1230	2022-09-22	Pest Control	PENDING	Sagar patil	PAYMENT	CANCEL
11	1200	2022-09-20	House Keeping	COMPLETED	Mayur mahajan	FEEDBACK	
10	1000	2022-09-19	Ac Repair	COMPLETED	Narendra solanki		
8	1000	2022-09-19	Ac Repair	COMPLETED	Narendra solanki		
7	1000	2022-09-18	Ac Repair	COMPLETED	Narendra solanki	FEEDBACK	
6	2200	2022-09-18	painter	COMPLETED	vipul barhate	FEEDBACK	
4	2200	2022-09-17	painter	COMPLETED	vioul barhate		

PSD - Professional Services at Doorstep

localhost:3000/api/psd/user/Profile

Home About Us Contact Us Profile Logout

My Profile

Update Profile

Unverified Employees

Verified Employees

Services

All customers

[Add Service](#)

List of Services

Service Name	Basic Charge
painter	2200
Ac Repair	1000
House Keeping	1200
Pest Control	1230
Wash M/c Repair	1500

Professional Services at Doorstep

PSD - Professional Services at Doorstep

localhost:3000/api/psd/user/Profile

Home About Us Contact Us Profile Logout

My Profile

Update Profile

Unverified Employees

Verified Employees

Services

All customers

Add Service

List of Services

Service Name	Basic Charge
painter	2200
Ac Repair	1000
House Keeping	1200
Pest Control	1230
Wash M/c Repair	1500

Professional Services at Doorstep

PSD - Professional Services at Doorstep

localhost:3000/api/psd/user/Profile

Home About Us Contact Us Profile Logout

My Profile

Update Profile

Unverified Employees

Verified Employees

Services

All customers

Update Profile

First NameLast Name

ravindra barhate

Contact NumberEmail

8770300598 rb98989@gmail.com

Plot No.

3

LandmarkCity

ganpati naka neapanagar

StatePincode

mh 450331

UPDATE

PSD - Professional Services at Doorstep

localhost:3000/api/psd/user/Profile

Home About Us Contact Us Profile Logout

My Profile

Update Profile

Unverified Employees

Verified Employees

Services

All customers

List of Verified Employees

Search By Email

Firstname	lastname	Email	ContactNumber	Experience	Profession	
vipul	barhate	vrb98989@gmail.com	8770300598	2	painter	DELETE
Darpan	kolhe	dk98989@gmail.com	8770300598	3	painter	DELETE
Mayur	mahajan	mk98989@gmail.com	8770300598	2	House Keeping	DELETE
Sagar	patil	sp98989@gmail.com	8770300598	2	Pest Control	DELETE
Narendra	solanki	ns98989@gmail.com	8770300598	1	Ac Repair	DELETE

WhatsApp

PSD Professional Services at Doorstep

V vipul

English

Add New Card

Card Number4111 1111 1111 1111VISA

Expiry02 / 32

Card Holder's namebbb

CVV***

☒ Save card securely for future payments

[Know More](#)

₹ 1,000View Details

Pay Now

V vipul

English

Pay With UPI QR

Show QR

Scan the QR using any UPI app on your phone.

Cards, UPI & More

Card

Visa, MasterCard, RuPay, and Maestro

UPI / QR

& More

Netbanking

All Indian banks

Wallet

₹ 1,000View Details

Pay Now

6. TESTING

6.1 Test Cases

6.1.1 Introduction

- The aim of testing process is to identify all defects in a software product. Testing is any activity aimed at evaluating the software for quality results it produces and the quality of results it can handle. Testing is an operation to detect the differences between the expected result and the actual result.
- Our goal is to design a series of test cases that would have a high likelihood of finding errors. The software testing technique provides systematic guidance for designing tests that exercise the internal logic of software components and exercise the input and output domain of the program to uncover errors in program function, behavior and performance.

6.1.2 System test objective and scope

- **Software tested from two different perspective**

1. Internal program logic is exercised using “White Box” test cases design technique.
2. In this technique internal structure, design and coding of software are tested to verify flow of input-output and to improve design, usability and security.
3. Software requirements are exercised using “Black Box” test case design techniques, involves testing from an external or end-user type perspective.

- **The main aim to test this is to insure that**

1. The proposed system permits only secure and authenticate access.
2. Thus requires user to enter URL in correct format.
3. Does all client side as well as server side validation time to time as per the need.
4. Appropriate alerts are generated as per the condition for user convenience.
5. Database is updated time to time as the user transaction process proceeds.

- **Tested Items**

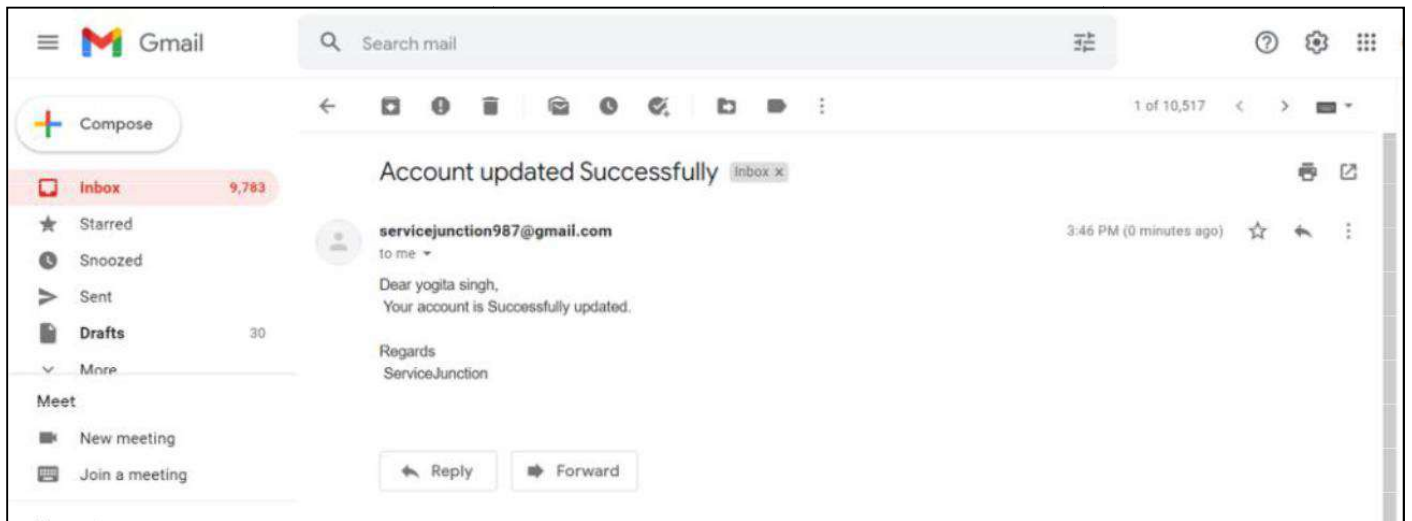
1. All functionality of Admin Domain
2. All functionality of Customer Domain
3. All functionality of Employee Domain

6.2 TEST CASES

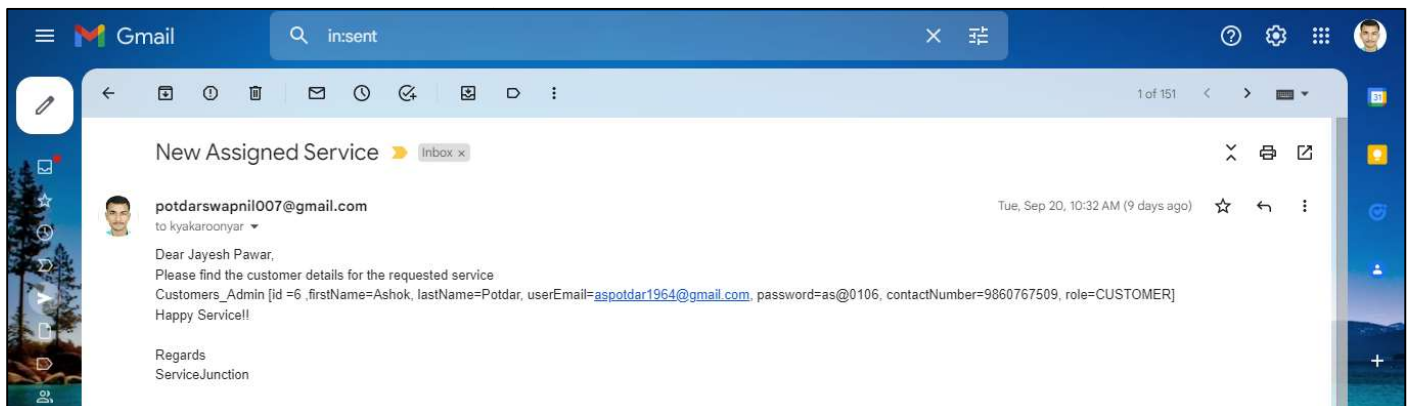
Test Id	Items to be tested	Input	Actual Output	Expected Output	Pass/Fail
1.	testAddProfesion	professionName & basicCharge Server side validations	Message “Profession add successfully”	Message “Profession add successfully”	Pass
2.	testGetUnverifiedEmployees		List of unverified employees	List of unverified employees	Pass
3.	testGetAdminById	Enters adminId	Admin details	Admin details	Pass
4.	testAuthenticateCustomerAdmin	Enter user email and password	User details	User details	Pass
5.	testGetCustomerById	customerId	Customer Details	Customer details	Pass
6.	testServiceCompleted	orderId	Message “Sevice Completed”	Message “Servive Completed”	Pass
7.	testCustomerControllergetCustomerById	customerId	Customer Details	Customer Details	Pass
8.	testCustomerControllerCreateNewCustAccount	Customer required details	Customer details	Customer details	Pass
9.	testCustomerControllerBookService	professionName and customerEmail	Employee Assisted for service Details	Employee assisted for service details	Pass

7. Results and Discussions

7.1 Customer Account Update mail:



7.2 Employee Assigned mail



8. Conclusions

- The company should take proper feedback from customer after providing services which also shows professionalism....
- The hygiene level of the service provider is also very important for the customer; the service provider should be hygiene & should be very professional in the terms of services...and all this things we are added in our site.
- Professional Services at Doorstep somehow help to solve the problem of unemployment. And also it helps the people who lost their job because of covid-19.
- The Professional Services at Doorstep representative should have the complete & proper information about the services and products which he/she is giving to customer.
- And at last but not the list as we planned ,we implemented all the things and try to solve the problem and somehow we succeed in that...

Future Scope

- As we see that Professional Services at Doorstep is very useful for all the people across India. The Platform Helps customer's book reliable home services Like Cleaning, Plumbing, Carpentry, Painting etc... And this application can serve many people very effectively in the situation like pandemic
- We can implement it as website or Platform like an Urban clap....
- Now a day it's very hard to search trustworthy employee and searching job our project can easily provide services to users and job to jobless people.
- We can also use our website as a consultant website which can provide lots of jobs to the many people across India...
- So Our Website Mission is to empower of service professionals by delivering services at-home in a way that has never been experienced before and we are working on it.

REFERENCES

Complete Spring Security Guide

<https://www.baeldung.com/spring-security-login>

Axios is used to communicate with the backend

<https://www.geeksforgeeks.org/axios-in-react-a-guide-for-beginners/>

Java Mail Sender

[https://docs.spring.io/spring-framework/docs/current/javadoc-api/org.springframework/mail/javamail/JavaMailSender.html](https://docs.spring.io/spring-framework/docs/current/javadoc-api/org.springframework.mail.javamail/JavaMailSender.html)

Spring DATA JPA Persistence

<https://www.baeldung.com/the-persistence-layer-with-spring-data-jpa>

Spring Boot Micro services Architecture using Shared Database

<https://marceloh-web.medium.com/spring-boot-microservices-architecture-using-shared-database-69312a968530>