INSTITUTE FOR ADVANCED
COMPUTING AND
SOFTWARE DEVELOPMENT
AKURDI, PUNE

Documentation On

"DRIVER BOOKING SYSTEM"

E-DAC SEP 2020

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Project Guide

Table of Contents

1. Introduction 1
Document Purpose 2
Problem Statement 2
Product Scope 2
Aim & Objectives 2
2. Overall Description 3
Product Perspective..... 3
Benefits of Driver Booking System ……..... 3
User and Characteristics 3
Operating Environment 3
Design and Implementation Constraints 3
3. Software Requirements Specification 4
External Interface Requirements .....
4. System Diagram 11
Activity Diagram 11
Data Flow Diagram 13
Class Diagram 15
Use Case Diagram 16
ER Diagram 16
5. Table Structure 17
Customers 17
Drivers 17
Booking…..... 17
Conclusion 19
Future Scope 19
6. References 20

List of Figures

Figure 1 Admin Activity Diagram 11
Figure 2 Customer Activity Diagram 12

Figure 3 Level 0 Data Flow Diagram 13
Figure 4 Level 1 Data Flow Diagram 13
Figure 5 Level 2 Data Flow Diagram for Admin 14
Figure 6 Level 2 Data Flow Diagram for Customer ….... 14
Figure 7 Level 2 Data Flow Diagram for Driver …….... 15
Figure 8 Class Diagram 15
Figure 9 Use Case Diagram 16
Figure 10 ER Diagram 16

1. Introduction

In today's era, everyone wants convenience and comfort in daily life activities but everywhere, it is not possible. Travelling is also a major part of day-to-day activities and in same case also, people want same comfort assistance in whole journey.

Taking this statement, we came to the solution that will provide the comfort as well as secure journey provided.

Driver Booking is a web application which lets you book Driver for the intercity and intra-city travel purpose using your browser and provides you the best service that will make your journey more luxurious.

The objective of Driver Booking project is to Book driver for your car. So, customers do not need to call & spend unnecessary time in order to reserve preferred Driver. They can go online and reserve any preferred kind of Driver they want, which is available at that time.

Document Purpose

This system will allow customer as well as driver to register themselves. This system will allow the user to Book driver for their car. Our drivers are highly trained and professional. Information will be share with each other on the process of booking. Our driver are easy to reach. We provide drivers that are near your area.

Enhance Business Processes:

To be able to use internet technology to project to the global world instead of limiting their services to their local domain alone, thus increase their return on investment (ROI).

Online Driver booking Management:

A tool through which admin can register a driver and provide many functionalities to them. The admin also receives some set of functionalities which help in managing the Driver Booking web application.

Problem Statement

The problem statement of Driver Booking project is to develop an online process of Driver Booking Service. Present system is manual and it is time consuming as well as non-standardized in terms of returns.

Currently, customers need to make a manual call-in order to rent / reserve preferred drivers. The software of Driver Booking System will check their file to see which Driver is available for rental. The objective of Driver booking project is to book driver for your car.
So, customers do not need to call & spend unnecessary time in order to reserve preferred Driver.

Product Scope

This system will allow customer as well as driver to register themselves. This system will all the user to Book driver for their car. Our drivers are highly trained and professional. Information will be share with each other on the process of booking. Our driver are easy to reach.

We provide drivers that are near your area.

- Spring-boot, jsp and React Technology is used for the development of the application.
- General customers as well as every age group will be able to use the system effectively.
- Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal.

Aims & Objectives

Specific goals are: -

- To produce a web-based system that allow the admin to add driver and provide functionalities to its role.
- Maintain driver database.
- Self-registration for drivers and users.

2.Overall Description

Product Perspective:

2.1.1 Existing system function:

Existing system for a society is based on our traditional way of booking of drivers. If customer want a driver for their car, they have to make call or contact the agency which provide drivers or one have to go in search of driver. Moreover, it more cumbersome method.
Even after finding driver there maybe issues, about car, money, kilometres, days etc.
You have to negotiate for the price even you are using your own car and petrol.
so, here comes our driver booking system which will help you to find driver near you, with minimal rate and you can even get driver by car category.

III. PROPOSED SYSTEM

Product functionality:

Driver Booking System provides the features for admin, customer and driver. It includes several functionalities describes as below:

Customer Management:

It provides facility to add, update, delete and view the customer who are register for booking a driver. We can view their details and also update it.

Admin functionality:

The admin can maintain the driver as well as customer database and keep track of it.

Our system will mainly focus on booking driver and providing safety to our customers. helps.

Benefits of Driver Booking System

- It greatly reduces the time needed to generate nearest location driver.
- It is very easy to use.
- Driver can choose drive.
- It saves a lot of time, money and labour.
- Eco-friendly: The monitoring and the overall business becomes easy and includes the least of paper work.
- The application is open 24/7.

Users and Characteristics:

Admin:

- Admin can login to the system.
- View the list of all Drivers.
- View the list of all Customers.
- Add a new Driver.
- Delete Driver.
- Delete Customer.
- Update Driver.
- Update Customer.

Customer:

- Customer can login to the system.
- View his/her details.
- Book a Driver.

Operating Environment:

Server Side:

Processor: Intel® Core™ i5-9300H CPU @2.40GHz
HDD: Minimum 500GB Disk Space
RAM: Minimum 8GB
OS: Windows 10, Linux or later
Database: MySQL

Client Side (minimum requirement):

Processor: Intel® Core™ i5-9300H CPU@2.40GHz
HDD: Minimum 50GB Disk Space
RAM: Minimum 4GB

OS: Windows 10, Linux or Later

Design and Implementation Constraints:

- The application will use React, JavaScript, Spring boot, jsp and CSS as main web technologies.
- Several types of validations make this web application a secured one and SQL Injections can also be prevented.
- Since Driver Booking system is a web-based application, internet connection must be established.
- The Driver booking System will be used on PCs and will function via internet or intranet in any web browser.

Future Scope of the Project:

- In future we would like to integrate the tracking of drivers.
- In future the proposed update feature of Driver booking allows the user associates to track the current status of the journey.
- Also, we would like to evaluates the remaining time till the passenger reaches its destination.
- The Driver tracking feature is appreciated widely everywhere, at the time of emergencies such as accidents, the tracking device will trigger an alarm that will simultaneously inform the attendants about the incident & thereby asking for help.

3. Software Requirement Specification

Introduction:

This document is the SRS report for the *Driver Booking System* Web Application.

This system has the following main component:

1. Implement the different types of user – Administrator, Customer and Driver.
2. Implement registration facility for customers
3. Provide Driver registration
4. Manage Driver and Customers

Purpose:

The objective of Driver booking project is to Book driver for your car. So, customers do not need to call & spend unnecessary time in order to reserve preferred Driver.

They can online and reserve any preferred kind of Driver they want, which is available at that time. They can go online and reserve any kind of Driver they want and that is available.

Scope:

This system will allow customer as well as driver to register themselves. This system will allow the user to Book driver for their car. Our drivers are highly trained and professional. Information will be share with each other on the process of booking. Our driver are easy to reach.
We provide drivers that are near your area.

Overview:

Driver booking System will provide drivers for your car. We provide driver for short trips as well as for long trip, for going market or for picking up your children from school, we are there for you. Our drivers are highly trained and professional as well as follow every safety measures.

Functional Requirement:

This section provides a requirement overview of the system. Various functional

modules that can be implemented by the system will be-

- Customer Registration and authentication:
  - **i** Customer information is store in database by fill the registration functionality.
  - **ii** Customer is allowed to browse through the driver and select accordingly.
  - **iii** System will also authenticate user credential if customer is already register.

- Driver Registration and authentication:
  - **i** Driver is registered by Admin after checking the details and information provided by driver.
  - **ii** Driver is allowed to check its details.

- Admin:
  - **i** Admin is allowed to update and delete customer.
  - **ii** Admin can view the list of customers as well as list of drivers.
  - **iii** Admin can update as well as delete the customer.

Hardware Requirement:

Since the application is internet based, all the hardware shall be required to connect to internet.

Software Requirement:

- As the system is on server, so requires any scripting language JSP etc.
- System will require a capable Database like MySQL, Oracle etc.
- System will communicate with the database for storing customers, driver and booking.

Non-functional Requirement:

- **Usability**: System will be efficient to use, easy to use.
- **Portability**: This system can be used on Windows or Linux OS. System is easy to port on any other server.
- **Performance**: The Driver booking System has adequate performance requirements. it does not take more than 5 seconds to load new pages.
- **Integrity**: Whenever the changes are made related to customer data and his orders, it shall be reflected in the database as well.

Admin:

System Admin will Add/Delete/Update the Customers and Drivers details.

4.System Design

Activity Diagram

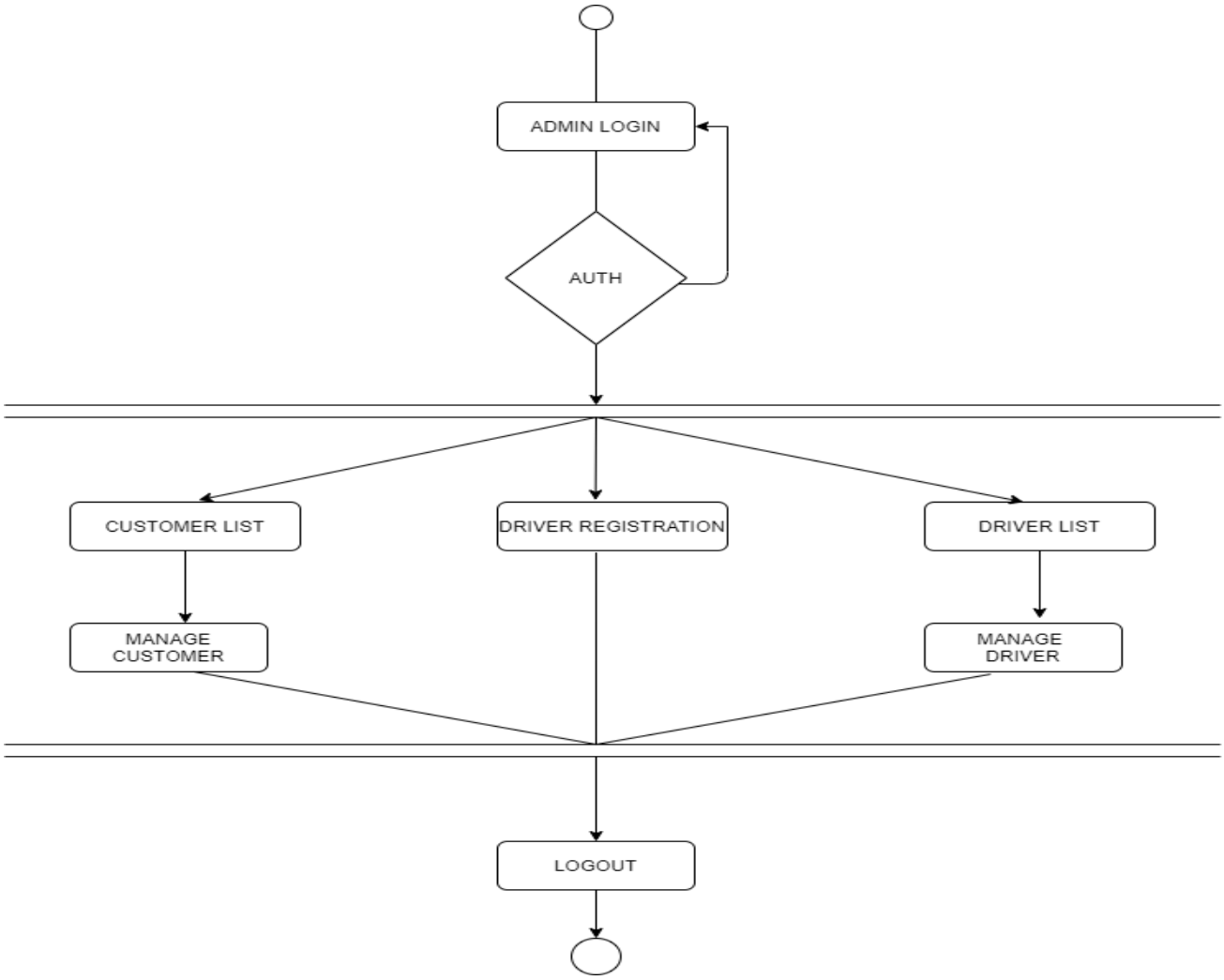


Figure 1: Admin Activity Diagram

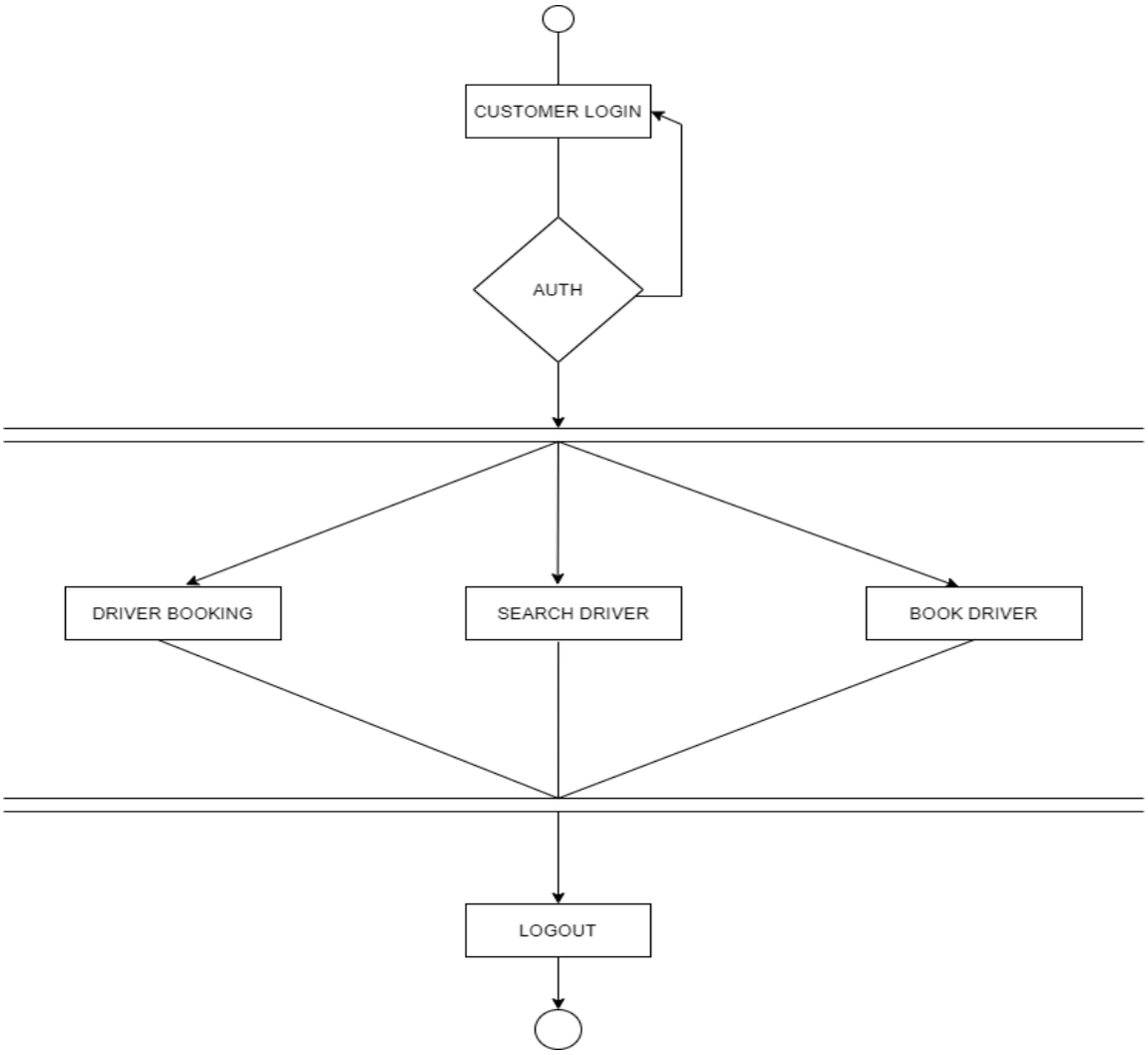


Figure 2: Customer Activity Diagram

Data Flow Diagram

Figure 3: Level 0 Data Flow Diagram

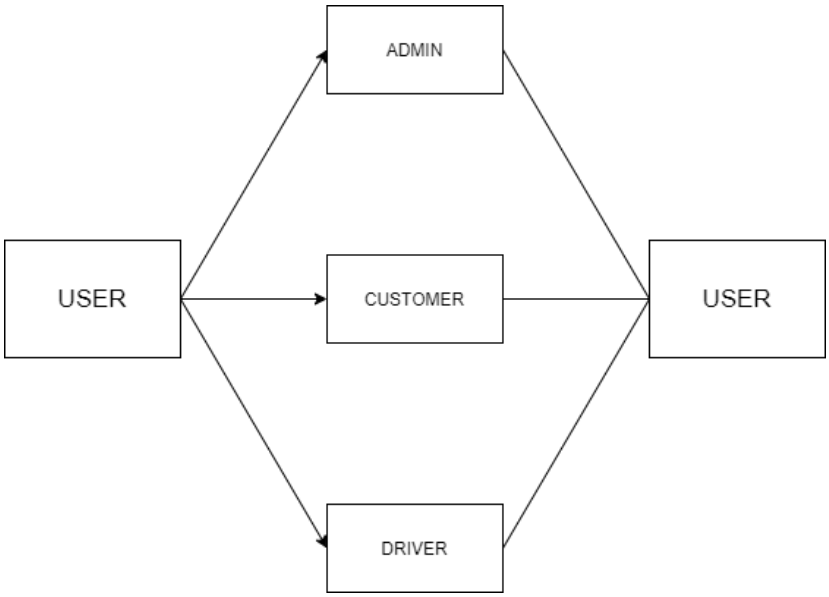


Figure 4: Level 1 Data Flow Diagram

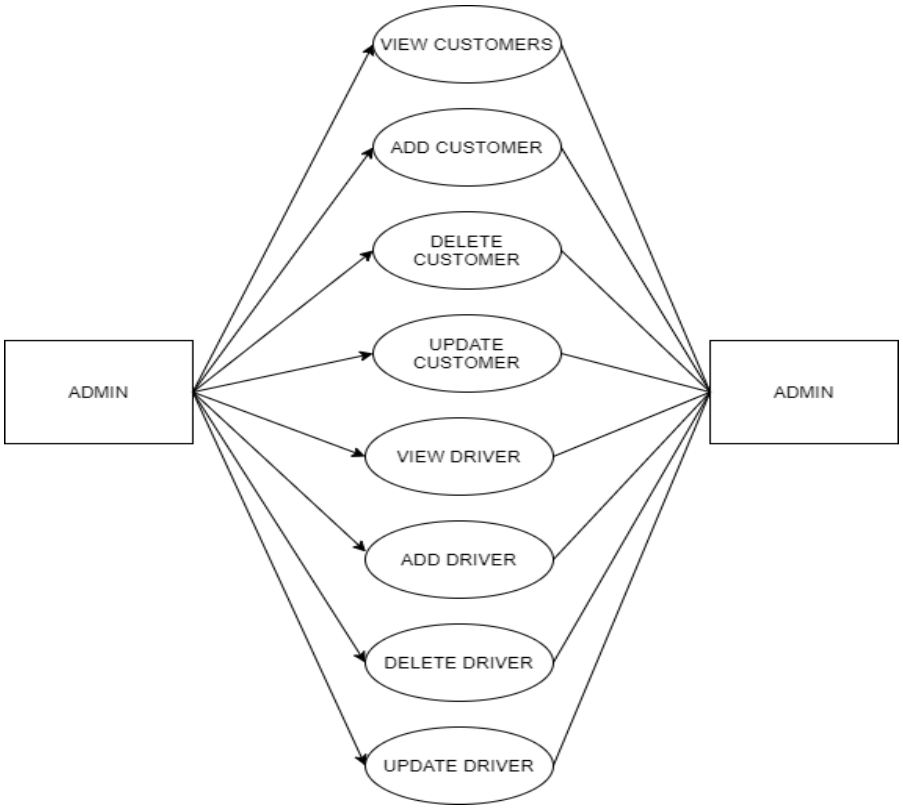


Figure 5: Level 2 Data Flow Diagram for Admin

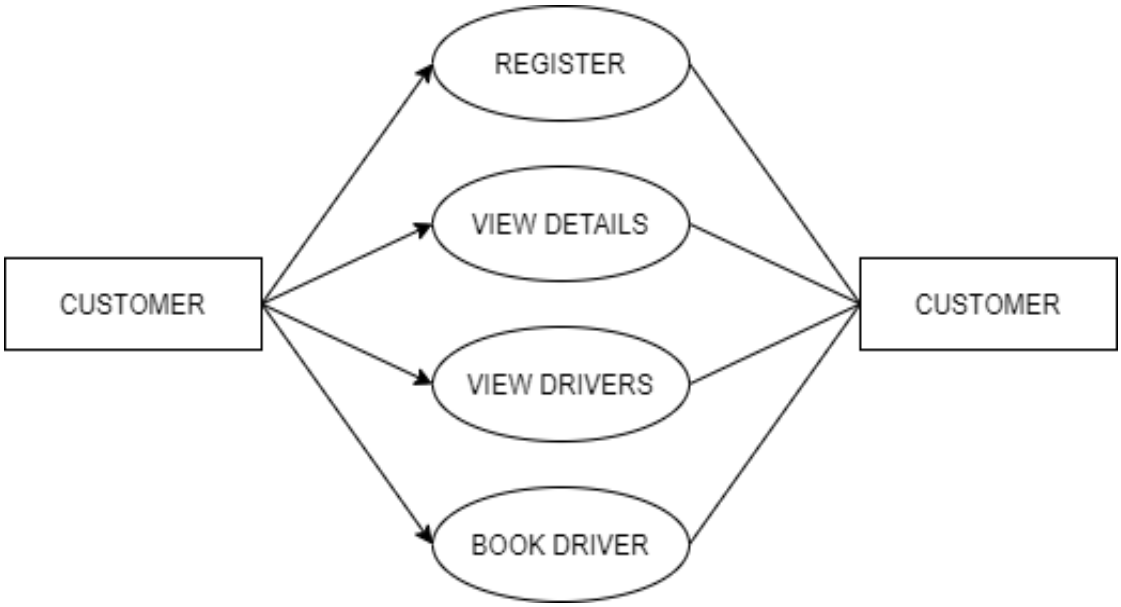


Figure 6: Level 2 Data Flow Diagram for Customer

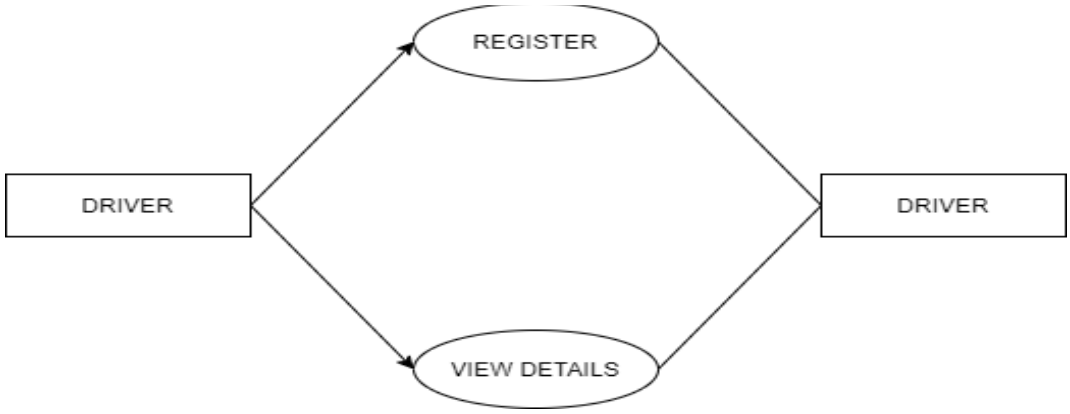


Figure 7: Level 2 Data Flow Diagram for Customer

Class Diagram

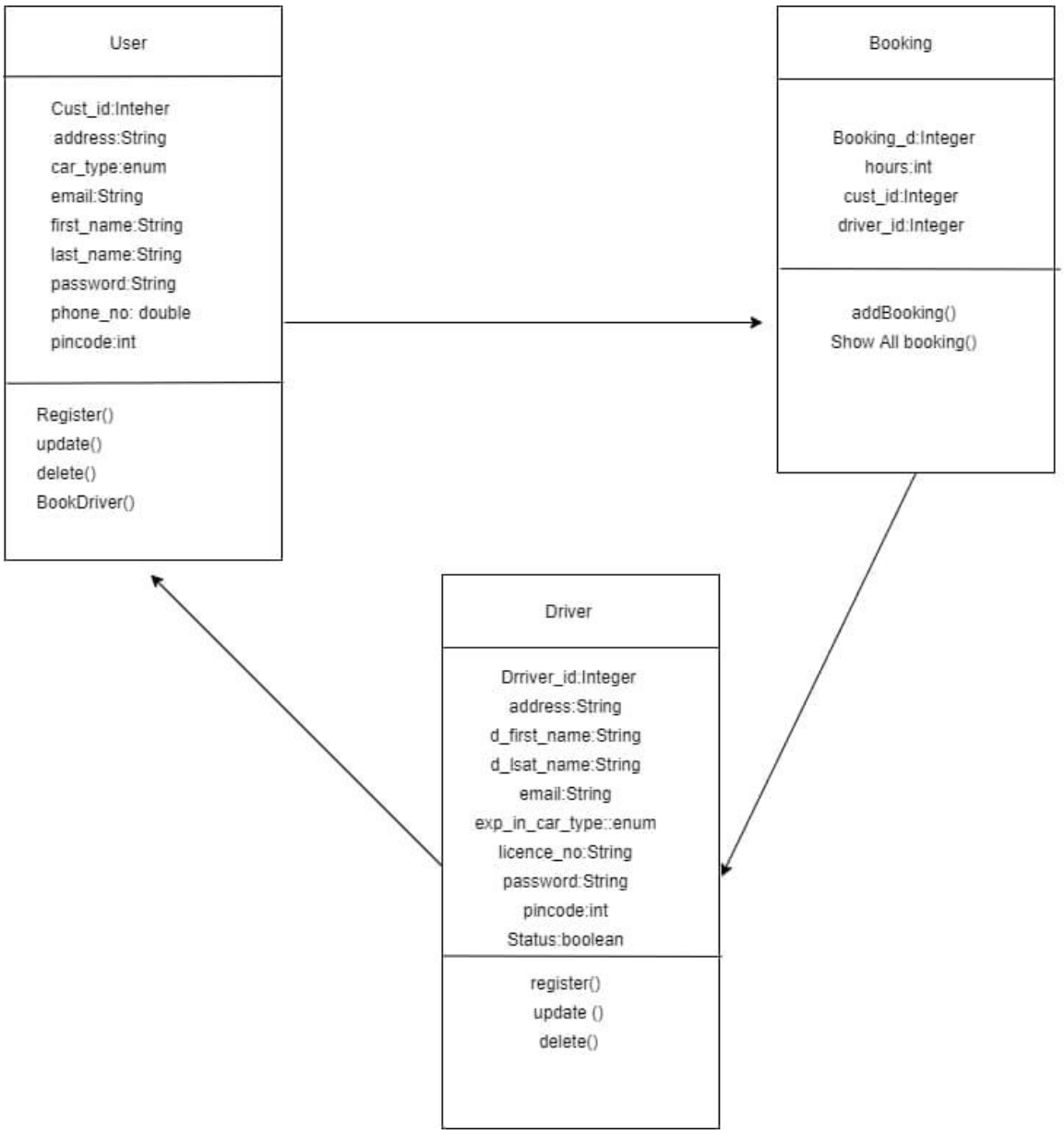


Figure 8: Class Diagram

Use Case Diagram

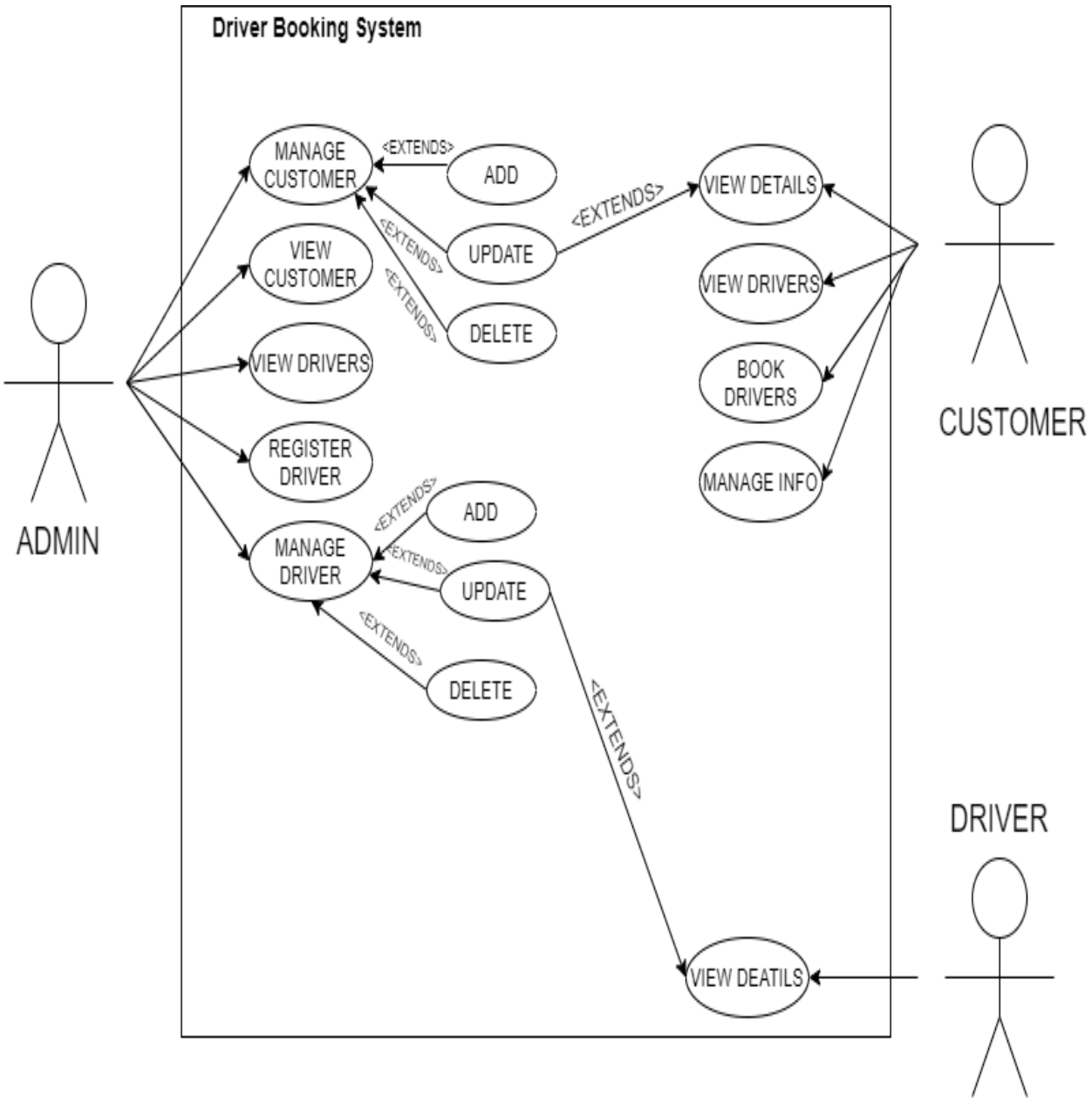


Figure 9: Use Case Diagram

ER Diagram

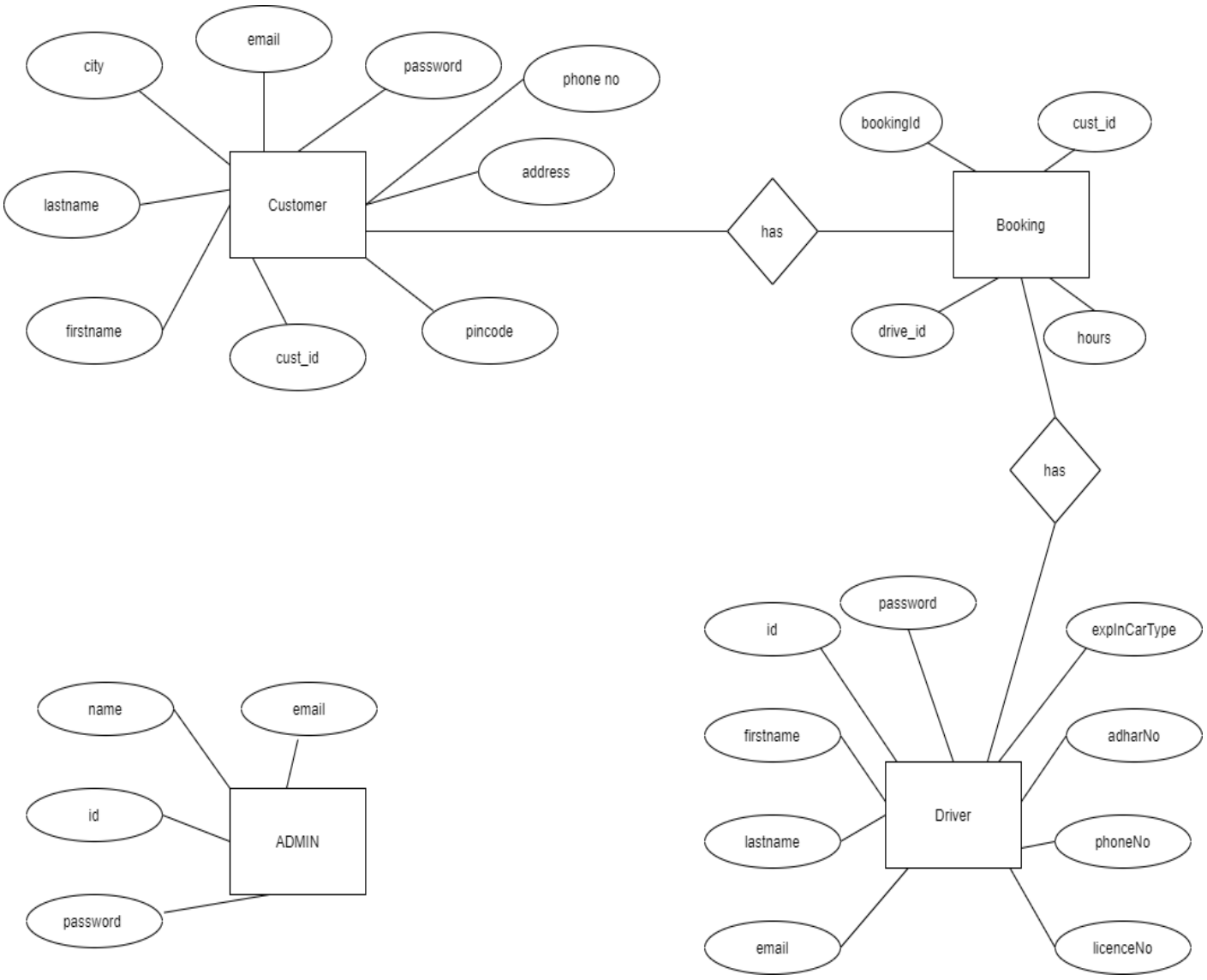


Figure 10: ER Diagram

Table Structure

Customers:

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
address	varchar(255)	YES		NULL	
cartype	varchar(300)	YES		NULL	
city	varchar(255)	YES		NULL	
email	varchar(30)	YES	UNI	NULL	
first_name	varchar(255)	YES		NULL	
last_name	varchar(255)	YES		NULL	
password	varchar(255)	YES		NULL	
phone_no	double	YES	UNI	NULL	
pincode	int	NO		NULL	

Drivers:

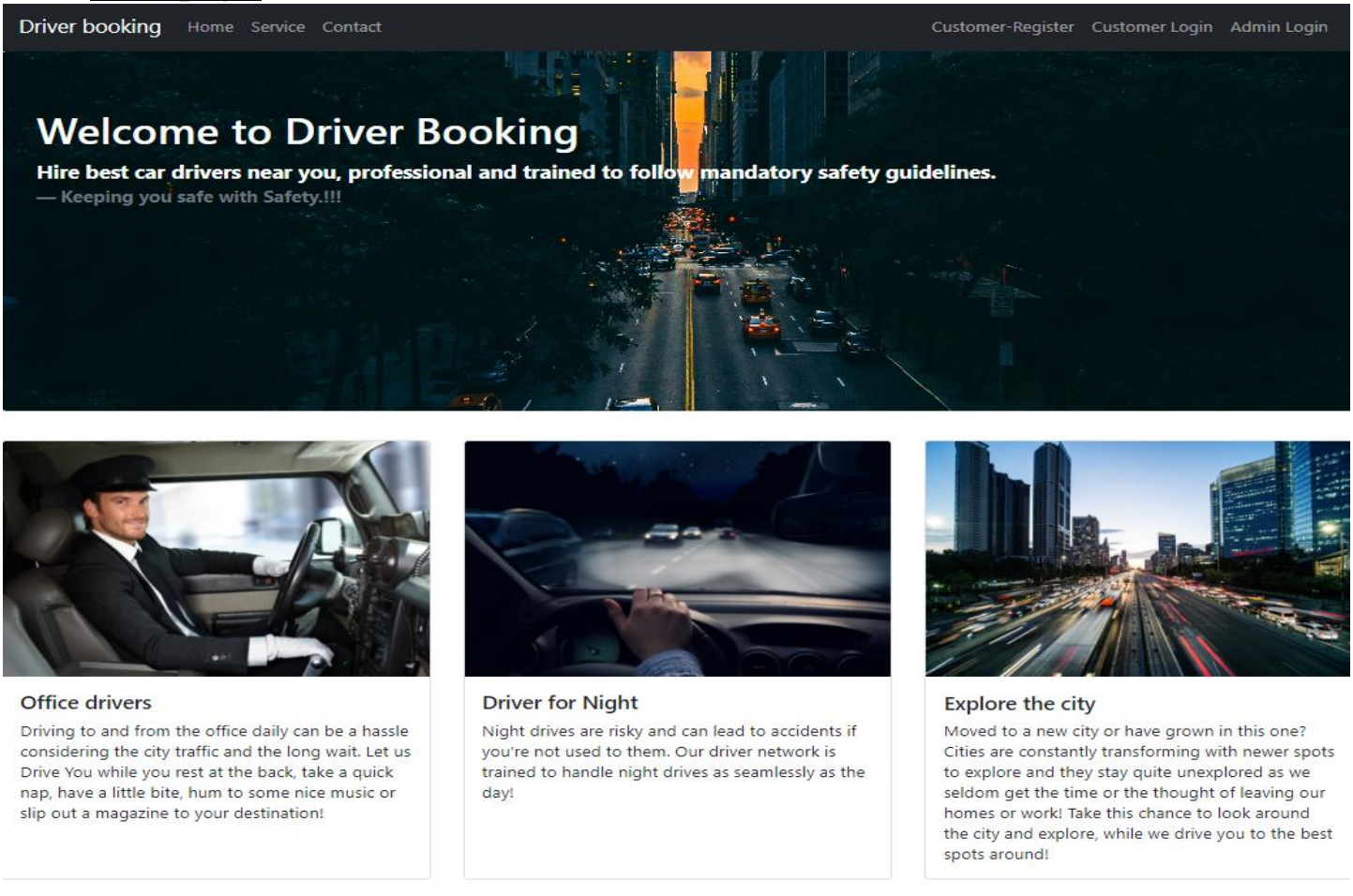
Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	Auto_increment
address	varchar(300)	YES		NULL	
adhar_no	varchar(30)	YES	UNI	NULL	
email	varchar(30)	YES		NULL	
exp_in_car_type	varchar(30)	YES		NULL	
first_name	varchar(30)	YES		NULL	
last_name	varchar(30)	YES		NULL	
licence_no	varchar(30)	YES	UNI	NULL	
password	varchar(30)	YES		NULL	
phone_no	double	NO		NULL	
pincode	int	NO		NULL	
status	bit(1)	YES		NULL	

Booking Table:

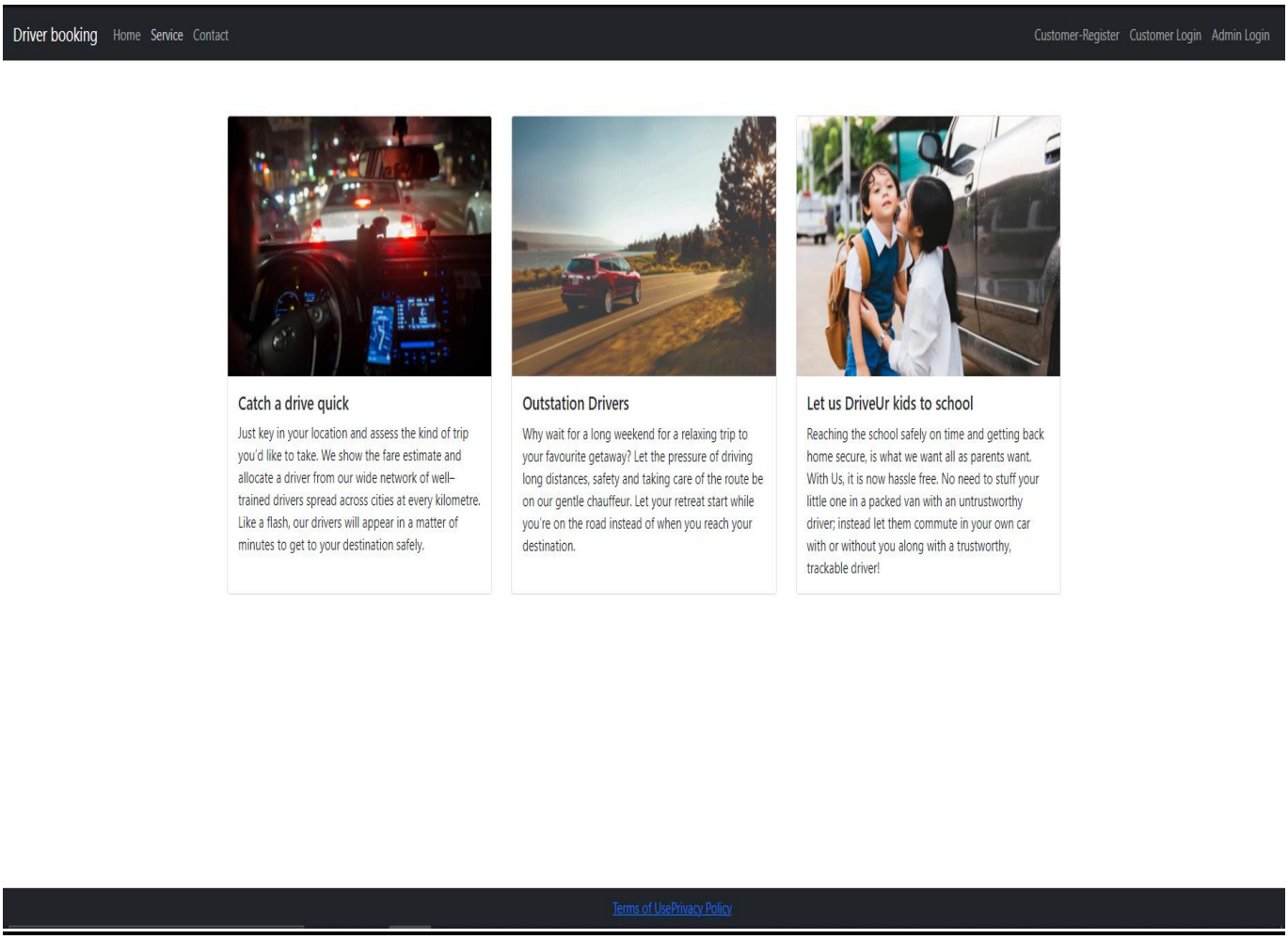
Field	Type	Null	Key	Default	Extra
booking_id	int	NO	PRI	NULL	Auto_increment
hours	int	NO		NULL	
cust_id	int	YES	MUL	NULL	
driv_id	int	NO	MUL	NULL	

Interface:

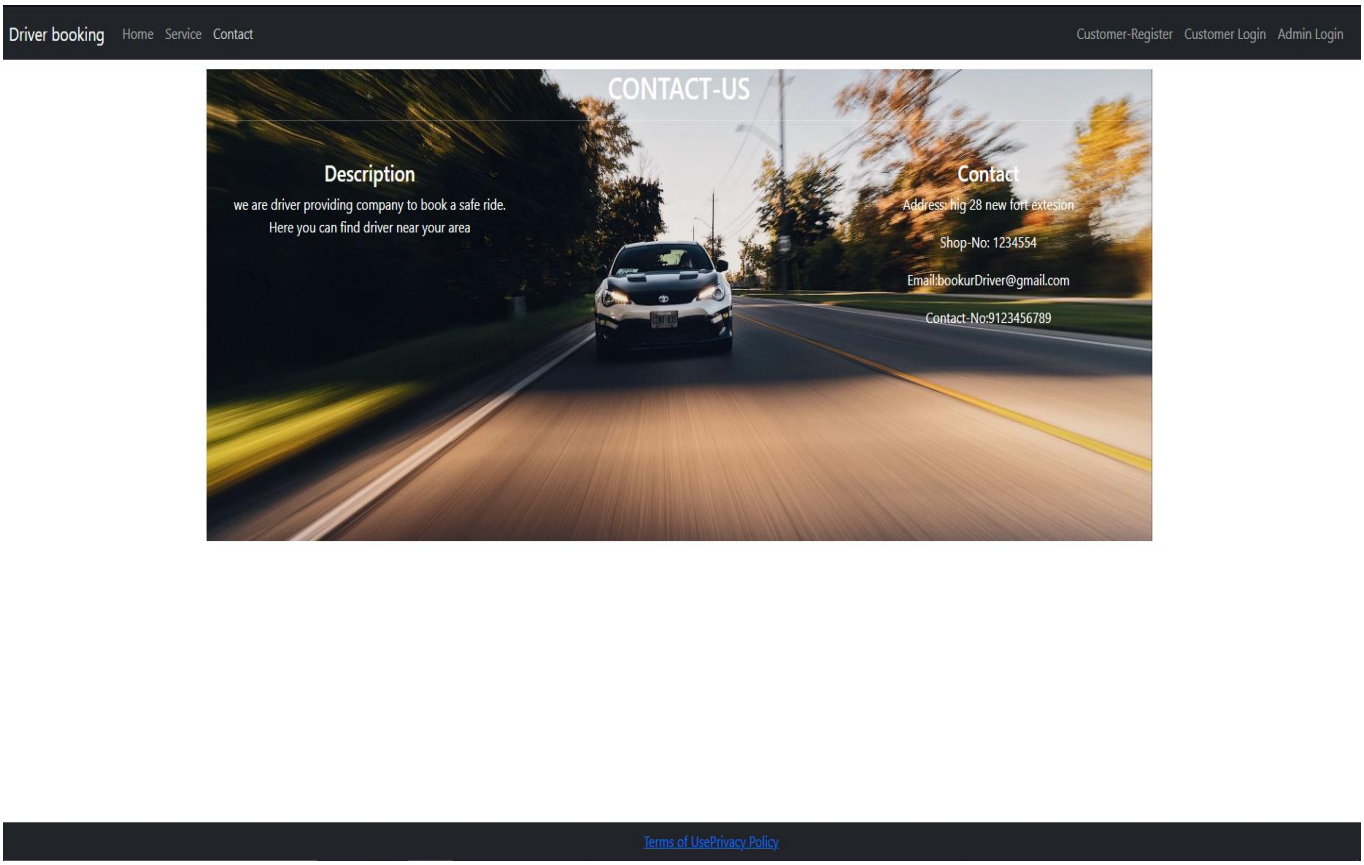
Homepage:



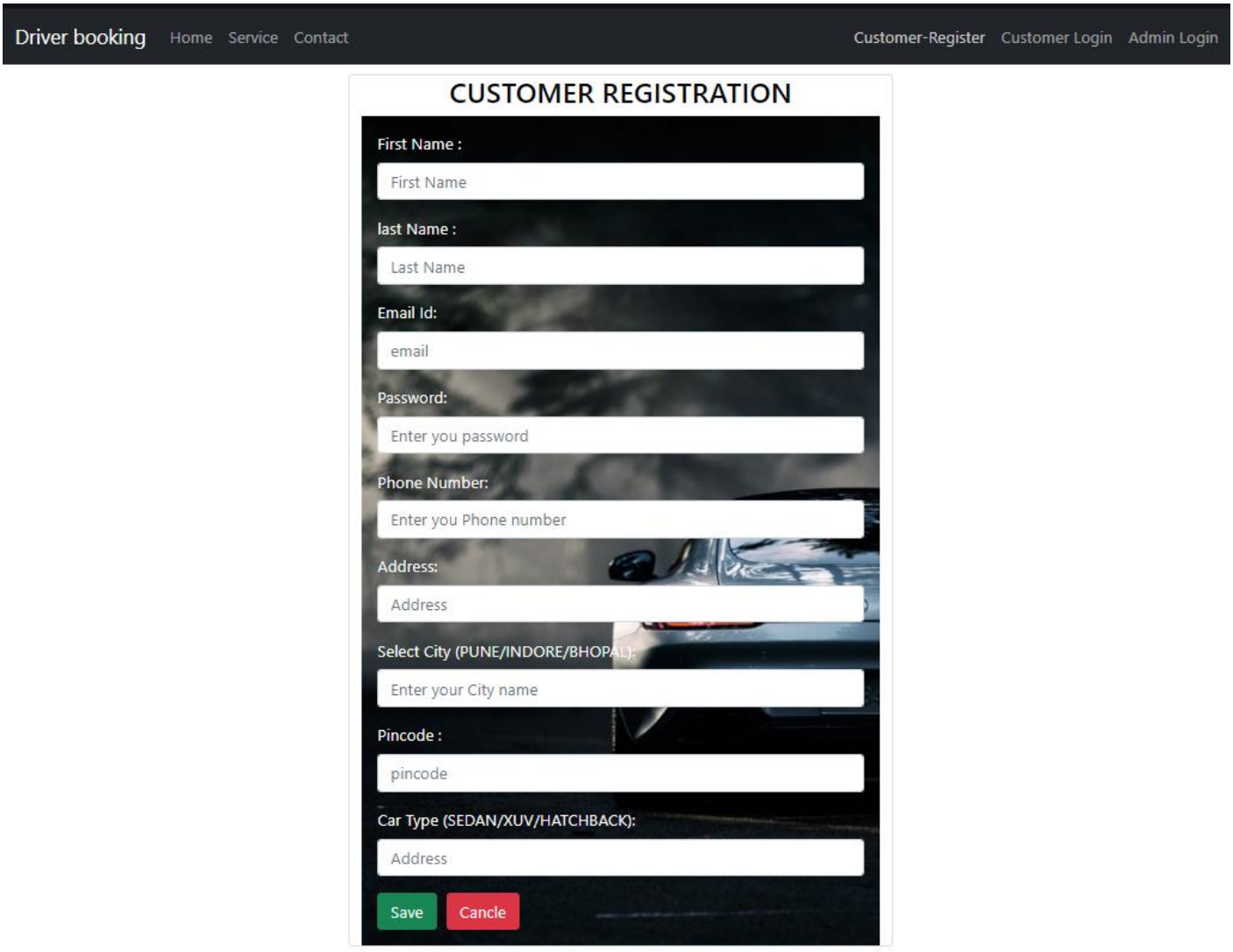
Services page:



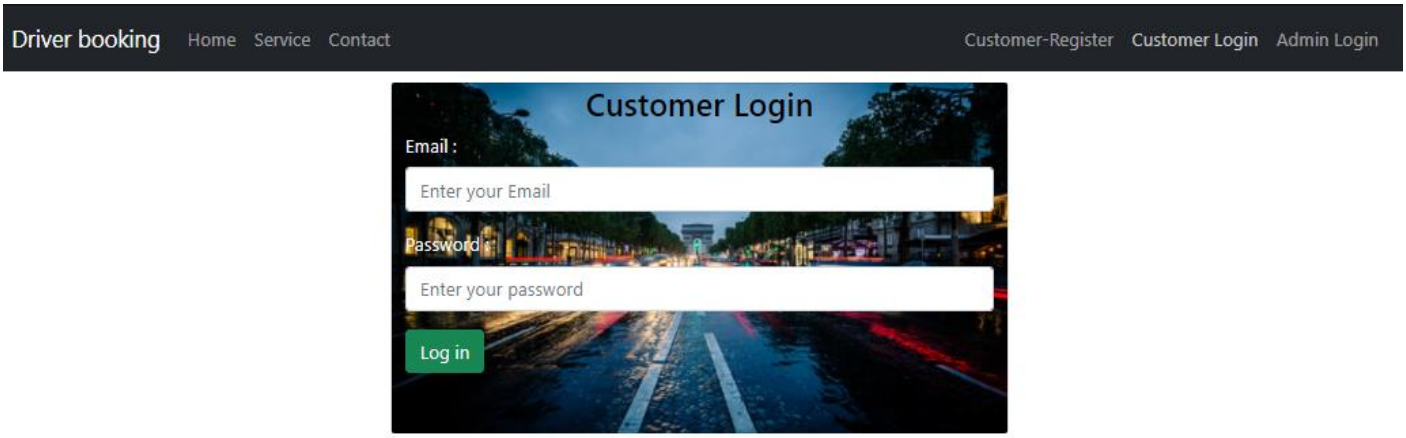
Contact us:


Driver booking
Home
Service
Contact
Customer-Register
Customer Login
Admin Login
CONTACT-US
Description
we are driver providing company to book a safe ride.
Here you can find driver near your area
Contact
Address: hig 28 new fort extesion
Shop-No: 1234554
Email:bookurDriver@gmail.com
Contact-No:9123456789
Terms of UsePrivacy Policy

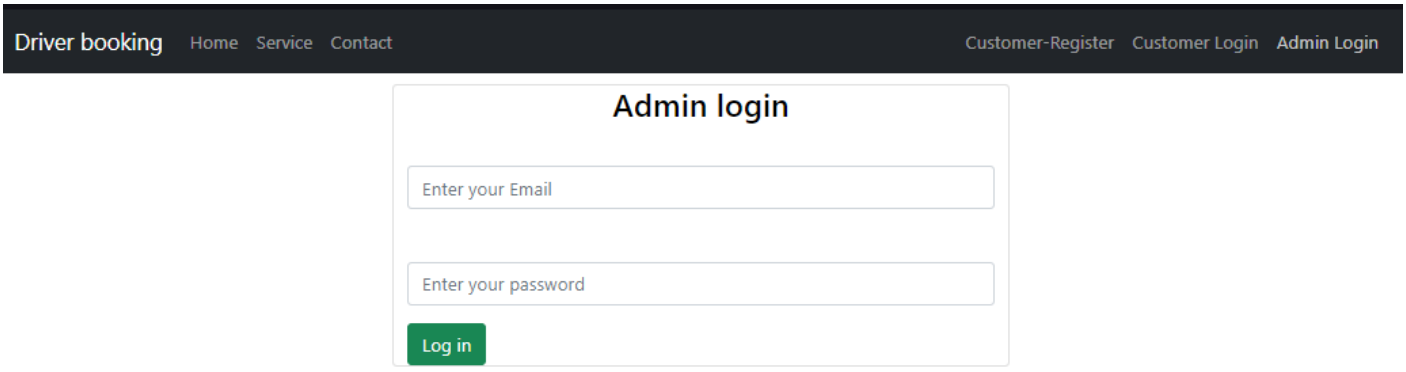
Customer-Registration page:



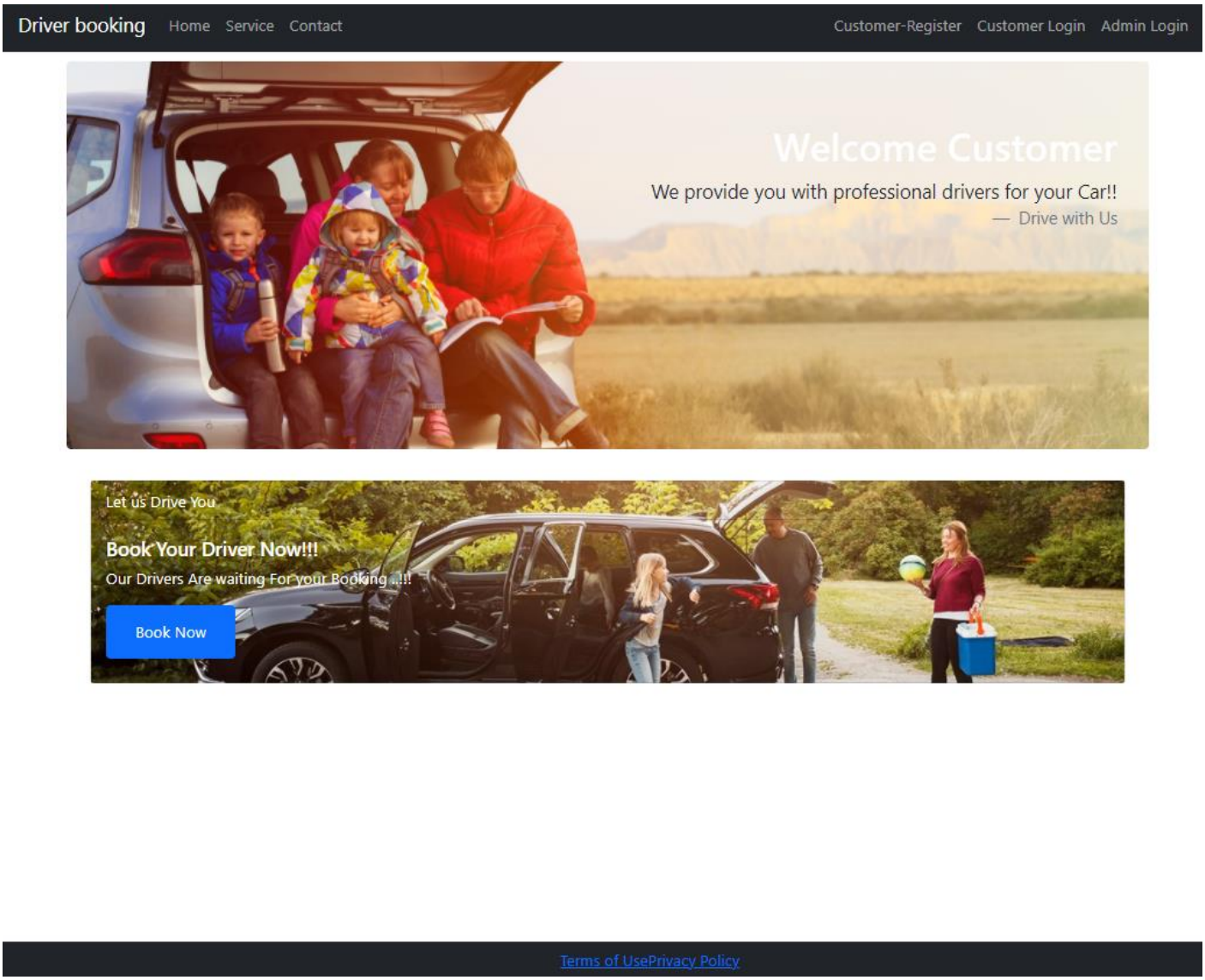
Customer login page:



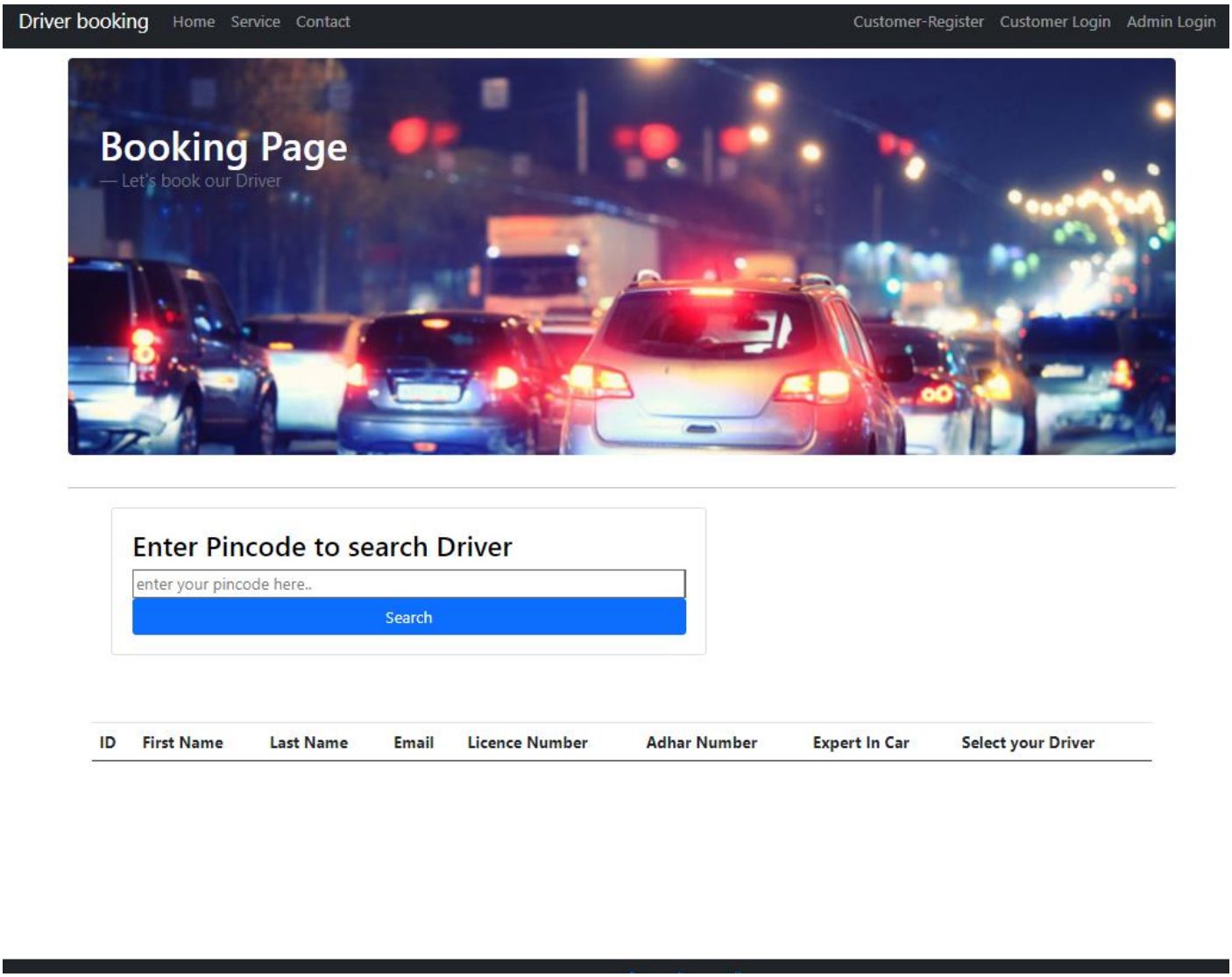
Admin login:



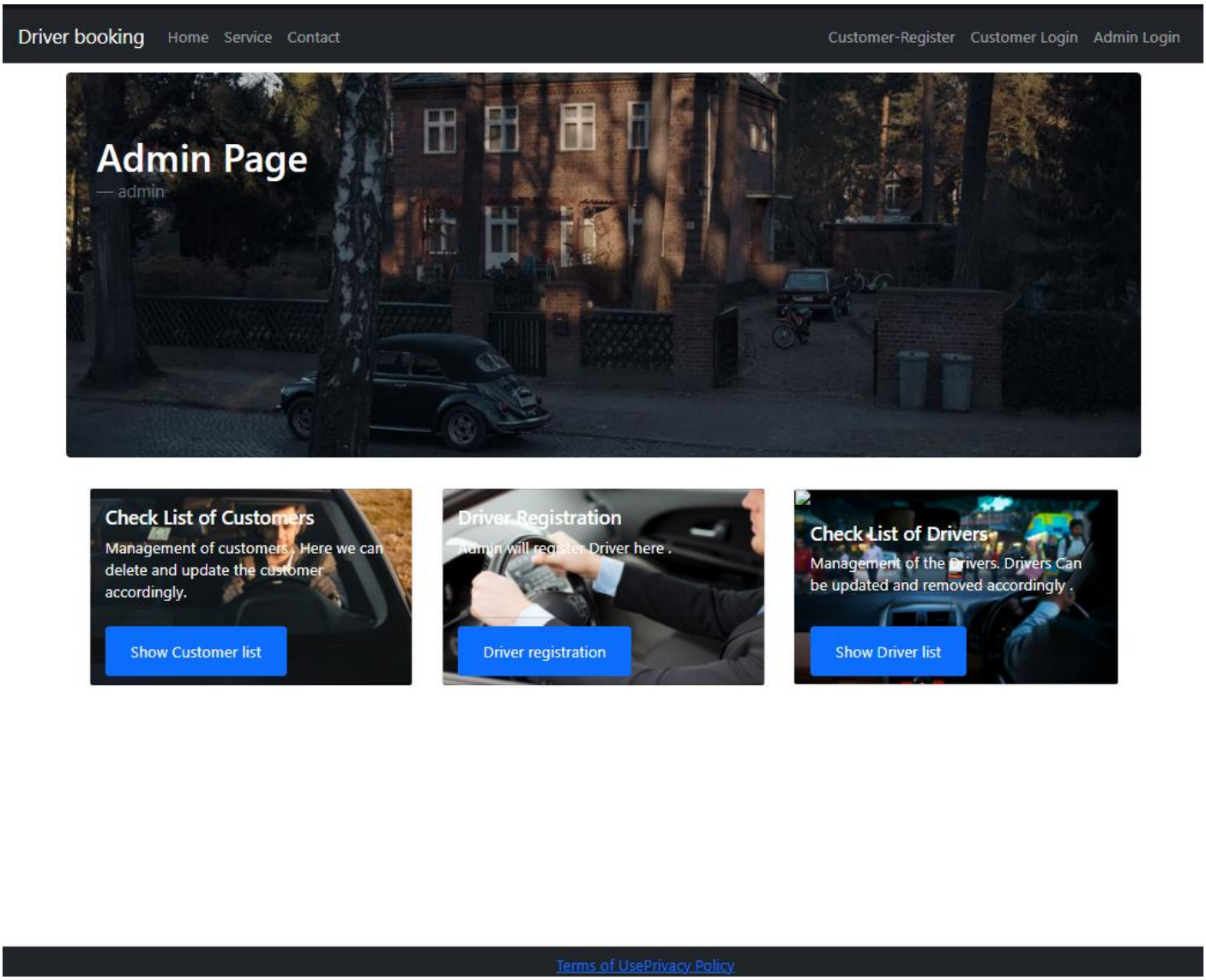
Customer welcome page (After login):



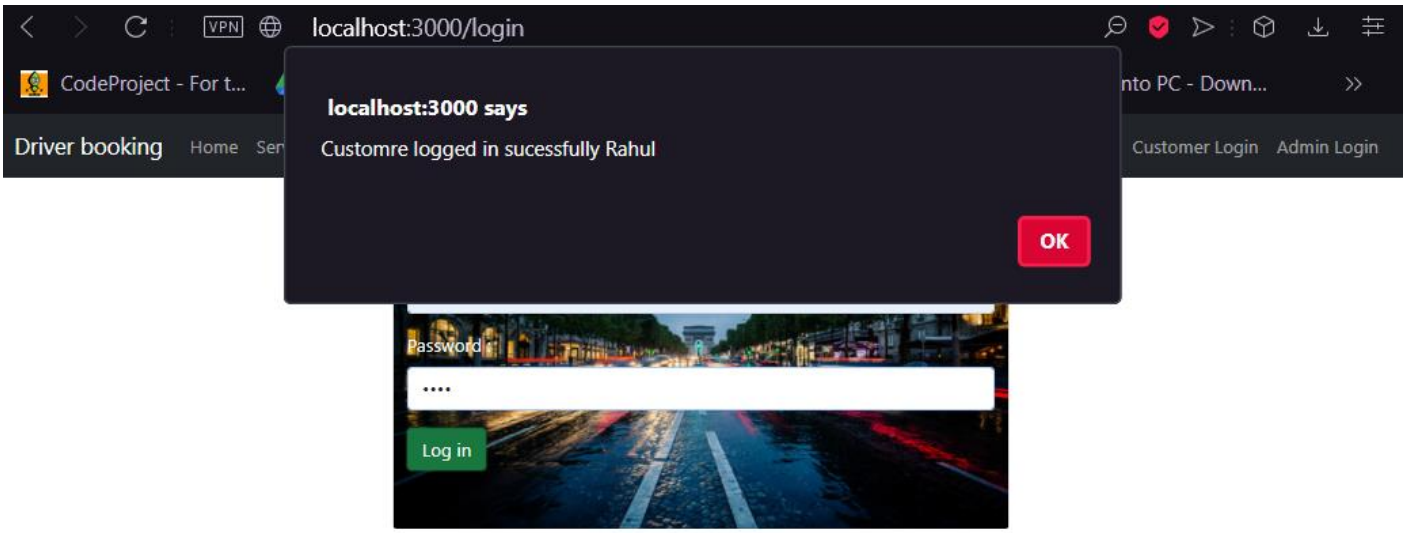
Booking page:



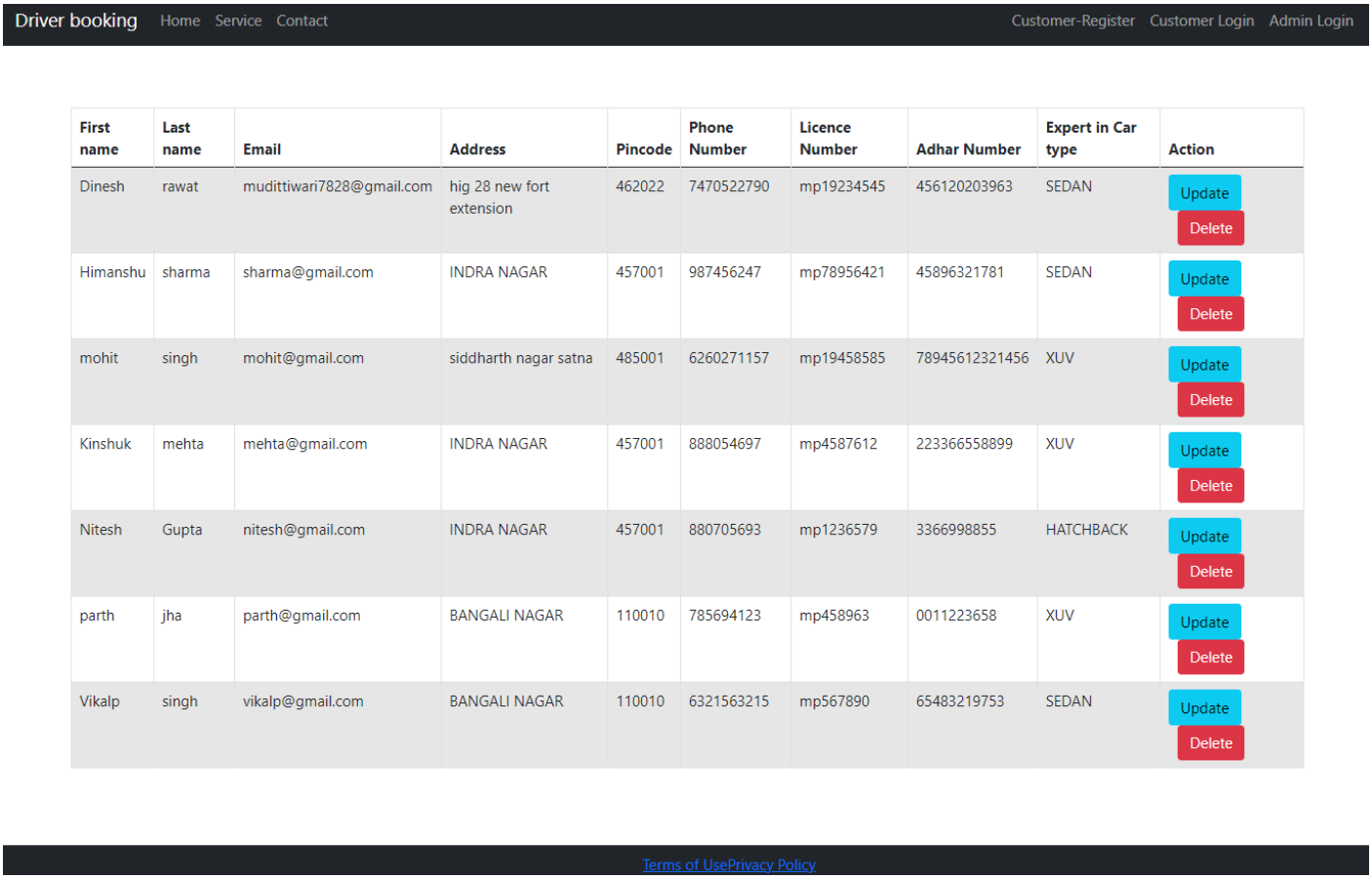
Admin page(after login):



When customer Logged in:



Driver list:



First name	Last name	Email	Address	Pincode	Phone Number	Licence Number	Adhar Number	Expert in Car type	Action
Dinesh	rawat	mudittiwari7828@gmail.com	hig 28 new fort extension	462022	7470522790	mp19234545	456120203963	SEDAN	Update Delete
Himanshu	sharma	sharma@gmail.com	INDRA NAGAR	457001	987456247	mp78956421	45896321781	SEDAN	Update Delete
mohit	singh	mohit@gmail.com	siddharth nagar satna	485001	6260271157	mp19458585	78945612321456	XUV	Update Delete
Kinshuk	mehta	mehta@gmail.com	INDRA NAGAR	457001	888054697	mp4587612	223366558899	XUV	Update Delete
Nitesh	Gupta	nitesh@gmail.com	INDRA NAGAR	457001	880705693	mp1236579	3366998855	HATCHBACK	Update Delete
parth	jha	parth@gmail.com	BANGALI NAGAR	110010	785694123	mp458963	0011223658	XUV	Update Delete
Vikalp	singh	vikalp@gmail.com	BANGALI NAGAR	110010	6321563215	mp567890	65483219753	SEDAN	Update Delete

Customer list:

Driver booking Home Service Contact Customer-Register Customer Login Admin Login

First name	Last name	Email	Phone No	Address	City	Pincode	Car-Type	Action
Rahul	gupta	rahul@gmail.com	9827655986	PNT colony	PUNE	458001	XUV	Update Delete
Parag	gupta	parag@gmail.com	7856941236	BANGALI NAGAR	INDORE	110010	XUV	Update Delete
Mudit	tiwari	tiwari@gmail.com	9865741236	Sidharth nagar	BHOPAL	458002	SEDAN	Update Delete
Suraj	Verma	verma@gmail.com	985671347	Vijay nagar	INDORE	110026	XUV	Update Delete
Prasad	tulapulkar	prasad@gmail.com	7826539561	Prathap nagar	INDORE	457001	XUV	Update Delete

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Booking page (searching driver by pin code):

Enter Pincode to search Driver

457001

Search

ID	First Name	Last Name	Email	Licence Number	Adhar Number	Expert In Car	Select your Driver
10	Himanshu	sharma	sharma@gmail.com	mp78956421	45896321781	SEDAN	Book driver
11	Kinshuk	mehta	mehta@gmail.com	mp4587612	223366558899	XUV	Book driver
12	Nitesh	Gupta	nitesh@gmail.com	mp1236579	3366998855	HATCHBACK	Book driver

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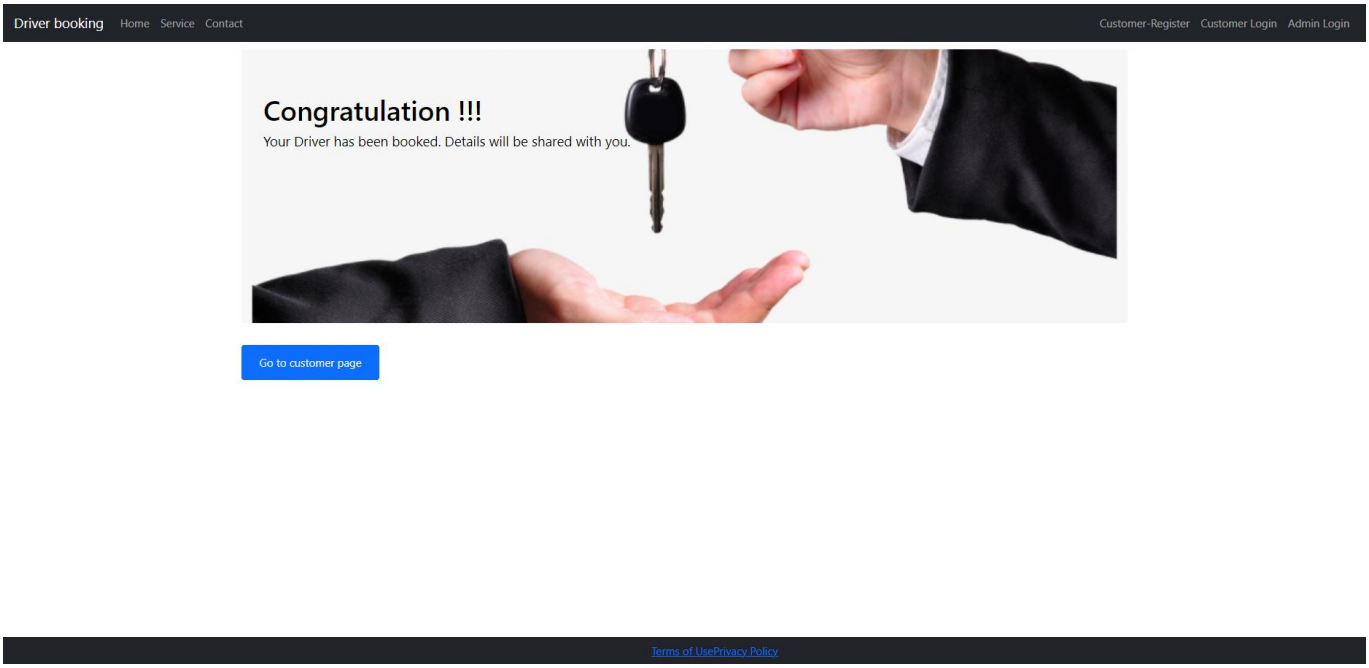
On Successful Booking:



Conclusion

Driver booking system, web application will be easy to customer for hire a driver. Customer can book the driver as per their requirement and get the driver details with acknowledgement to/from the driver online thereby saving time and money.

Future Scope

This project can be enhanced further by adding tracking system of the location and speed of car. The software is flexible enough to be modified and implemented as per future requirements. We have tried our best to present this free and user–friendly website to Customer as well as to Driver. Message and Email alerts for various happenings on the website can be added to the system so that customers do not miss the updates.

References

- https://reactjs.org
- https://react-bootstrap.github.io
- https://spring.io