

Near Nagdev Kalyan Mandir, Near Sanand Cross Roads, Sarkhej-Gandhinagar  
Highway Ahmedabad – 382210 Ph. No.: 9099063417

## **5 YEAR INTEGRATED M.SC.(IT)**



# **L.J School of Computer Application, LJKU**

## **Car Rental System**

### **DEVELOPED BY:**

Parth JayeshBhai Talaviya

Sahil Niteshbhai Aaghara

Rudra Mukeshbhai Vaddoriya

### **Guid By:**

**Mr. Himanshu Sharma Sir**

Near Nagdev Kalyan Mandir, Near Sanand Cross Roads, Sarkhej-Gandhinagar  
Highway Ahmedabad – 382210 Ph. No.: 9099063417



**Enrollment No:** 22004500210002

**Seat No:**

This is to certify that Sahil Niteshbhai Aaghara of 5 Year Integrated M.Sc. (IT) Course Semester V, Roll No 1 has satisfactorily completed his/her Project titled Car Rental System in Django under the supervision of internal guide.

**Internal Guide:**

Dr. Jignesh Doshi

**HOD:**

Dr. Jignesh Doshi

**Date of Submission:**

Near Nagdev Kalyan Mandir, Near Sanand Cross Roads, Sarkhej-Gandhinagar  
Highway Ahmedabad – 382210 Ph. No.: 9099063417



**Enrollment No:** 22004500210269

**Seat No:**

This is to certify that Parth Jayeshbhai Talaviya of 5 Year Integrated M.Sc. (IT) Course Semester V, Roll No 56 has satisfactorily completed his/her Project titled Car Rental System in Django under the supervision of internal guide.

**Internal Guide:**

Dr. Jignesh Doshi

**HOD:**

Dr. Jignesh Doshi

**Date of Submission:**

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Highway Ahmedabad – 382210 Ph. No.: 9099063417



**Enrollment No:** 22004500210284

**Seat No:**

This is to certify that Rudra Mukeshbhai Vaddoriya of 5 Year Integrated M.Sc. (IT) Course Semester V, Roll No 59 has satisfactorily completed his/her Project titled Car Rental System in **Django** under the supervision of internal guide.

**Internal Guide:**

Dr. Jignesh Doshi

**HOD:**

Dr. Jignesh Doshi

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## **1.INTRODUCTION**

### **1.1 Existing System**

This project is designed for a car rental company specializing in renting cars to customers. It is an online system where customers can view available cars, register for an account, check their profiles, and book a car easily.

With advancements in information technology and increased internet access, many businesses, including the car rental industry, have started to improve their processes and enhance communication with customers.

The E-Car Rental System is developed to provide the following services:

- **Browse Cars:** Customers can easily see all available cars for rent.
- **User Registration:** Customers can create accounts to manage their bookings.
- **Profile Management:** Customers can view and update their profiles.
- **Car Booking:** Customers can book cars online quickly and conveniently.

This system aims to make the car rental process smoother and more efficient for both the company and its customers, addressing the shortcomings of the existing manual systems.

### **1.2 Need For the New System**

The car rental industry is evolving, and customers now expect more convenience and better service. Many existing systems are outdated and manual, which can lead to long wait times, confusion, and errors. There is a clear need for a modern online system that allows customers to easily view available cars, book rentals, and manage their profiles. This new system will streamline processes, enhance customer satisfaction, and improve communication between the rental company and its clients.

### **1.3 Objective of the New System**

The main goals of the new E-Car Rental System are:

- Ease of Use: To create a user-friendly platform where customers can quickly find and rent cars online.
- Automation: To automate the booking and payment processes, reducing the need for manual work.
- Real-Time Information: To provide customers with up-to-date information on car availability and prices.
- Data Management: To better manage rental data, customer profiles, and transactions.

### **1.4 Problem Definition**

Current car rental systems are often inefficient, causing frustration for both customers and rental companies. Customers may struggle to find available cars, experience long wait times for bookings, and face difficulties in managing their reservations. Additionally, rental companies may have challenges in tracking inventory and processing bookings accurately. There is a pressing need for a centralized online system that addresses these issues and improves the overall experience for users.

### **1.5 Core Components**

The key features of the new E-Car Rental System will include:

- User Registration: Allowing customers to create and manage their accounts.
- Car Inventory Management: Providing a way to view and manage available cars.
- Booking System: Enabling customers to book cars online easily.
- Payment Processing: Facilitating secure online payments for rentals.

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- Admin Dashboard: Giving administrators the tools to manage bookings and view reports.

## **1.6 Project Profile**

The project is called the E-Car Rental System. It will use technologies like Python and Django for the backend and HTML, CSS, and JavaScript for the frontend. The target users include customers looking to rent cars and administrators managing the rental operations. The system aims to provide a seamless and efficient car rental experience.

<b>Component</b>	<b>Details</b>
<b>Project Name</b>	Car Rental System
<b>Developed by</b>	Parth Jayeshbhai Talaviya Sahil Niteshbhai Aaghara Rudra Mukeshbhai Vaddoriya
<b>Front-End</b>	HTML, CSS, JavaScript, Bootstrap, .net
<b>Back-End</b>	Python, Django
<b>Server</b>	<a href="http://127.0.0.1:4344/">http://127.0.0.1:4344/</a>
<b>Tools</b>	Visual Studio Code, DB Browser for SQLite
<b>Diagram Builder</b>	Draw.io

## **1.7 Assumption and Constraints**

### **Assumptions:**

- Users will have access to the internet and can use a web browser to book rentals.
- Customers are familiar with using online booking systems.

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- The system will handle a reasonable volume of transactions.

### **Constraints:**

- There may be budget limitations during the project development.
- The project has a specific timeline for completion.
- Security is a concern, especially regarding payment processing and customer data.

## **1.8 Advantages and Limitation of the Proposed System**

### **Advantages:**

- The new system will improve customer satisfaction by making the booking process easier and faster.
- It will streamline vehicle management, reducing errors and increasing efficiency.
- Real-time updates on car availability will help prevent double bookings and enhance customer trust.

### **Limitations:**

- Initial development costs may be high.
- The system will depend on internet connectivity to function.
- There may be potential security risks that need to be managed to protect customer data and payment information.

## **2. REQUIREMENT DETERMINATION & ANALYSIS**

### **2.1 Requirement Determination**

In this phase, we identify and outline the essential features and functionalities needed for the E-Car Rental System. Requirements can be categorized into two main types:

#### **1. Functional Requirements:**

- User Registration: Customers should be able to create accounts to manage their bookings.
- Car Inventory: The system must display available cars for rent, including details such as make, model, price, and availability status.
- Booking System: Users should be able to select a car, choose rental dates, and complete the booking online.
- Payment Processing: Secure online payment methods must be available for customers to pay for their rentals.
- Admin Management: Administrators should have the ability to add, update, or remove cars, manage bookings, and view reports.

#### **2. Non-Functional Requirements:**

- Usability: The system should have an intuitive and user-friendly interface to enhance the user experience.
- Performance: The system must load quickly and handle multiple users simultaneously without lag.
- Security: Customer data, including payment information, should be securely stored and protected from unauthorized access.
- Scalability: The system should be able to accommodate future growth, such as adding more cars or services.

## **2.2 Targeted Users**

The E-Car Rental System is designed for two primary user groups:

### **Customers**

Customers are individuals or groups who want to rent vehicles for personal or business use. They will use the system to:

- Browse available cars and view details such as make, model, price, and availability.
- Register for an account to manage their bookings and personal information.
- Complete the booking process online, allowing them to select rental dates and make secure payments.

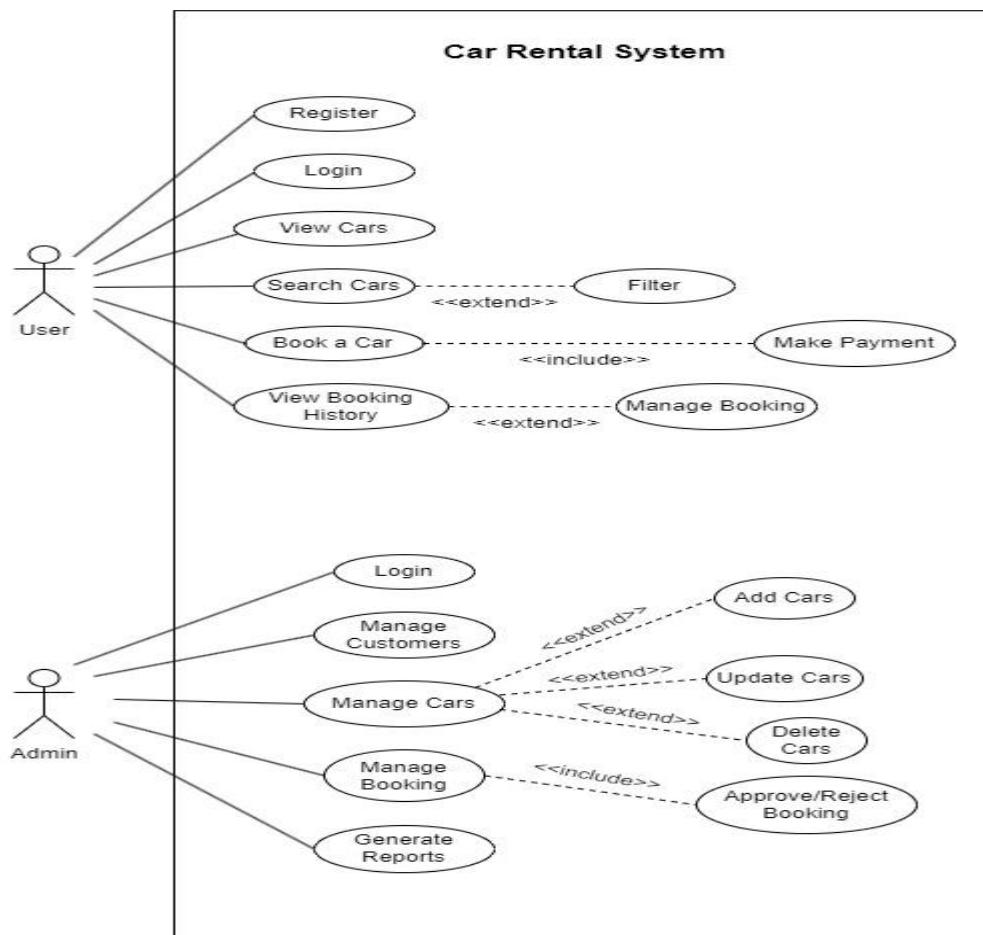
### **Administrators**

Administrators are staff members responsible for managing the car rental operations. Their role includes:

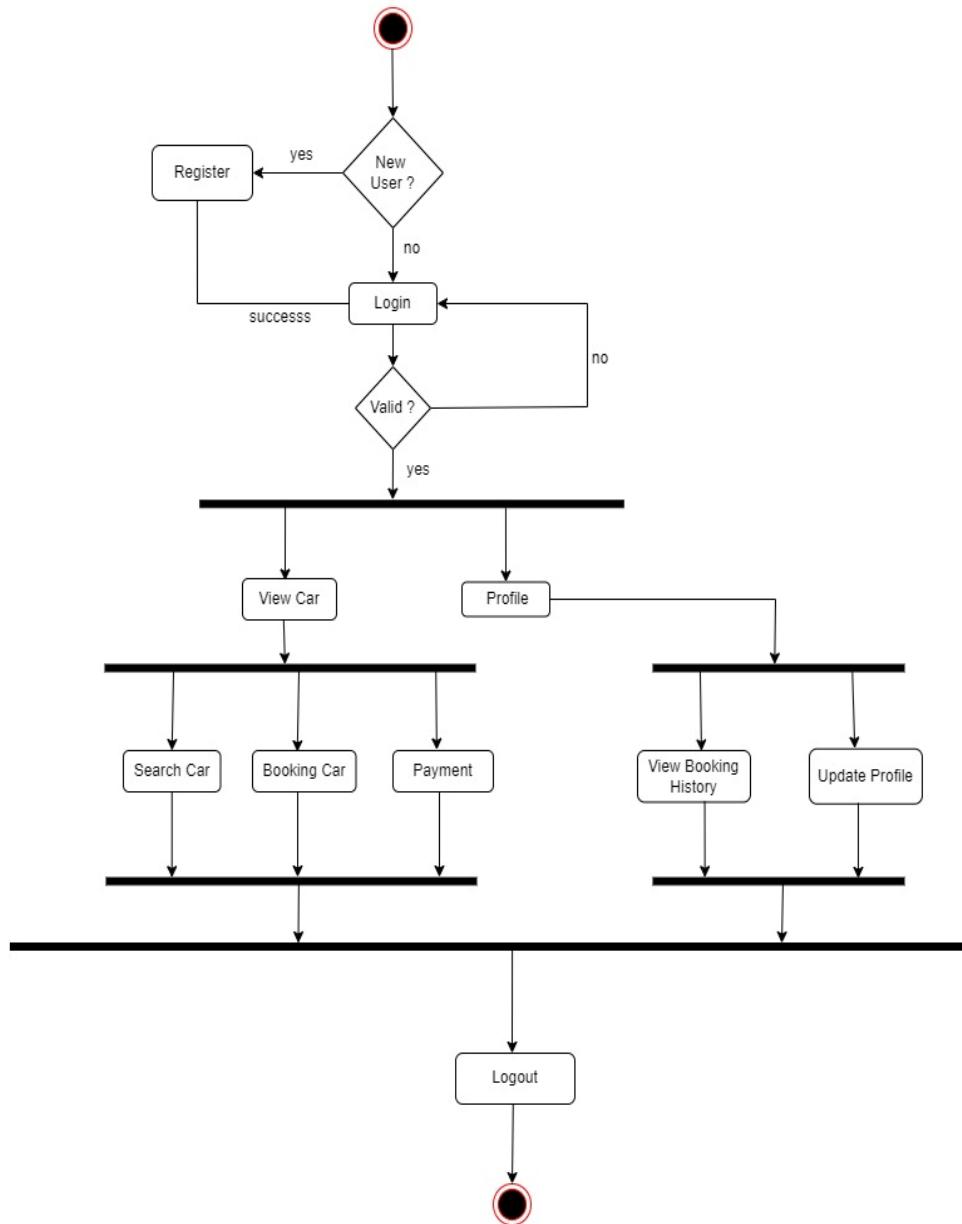
- Managing the vehicle inventory by adding, updating, or removing cars from the system.
- Handling bookings made by customers, including confirming reservations and managing any changes.
- Assisting customers with inquiries and providing support as needed.

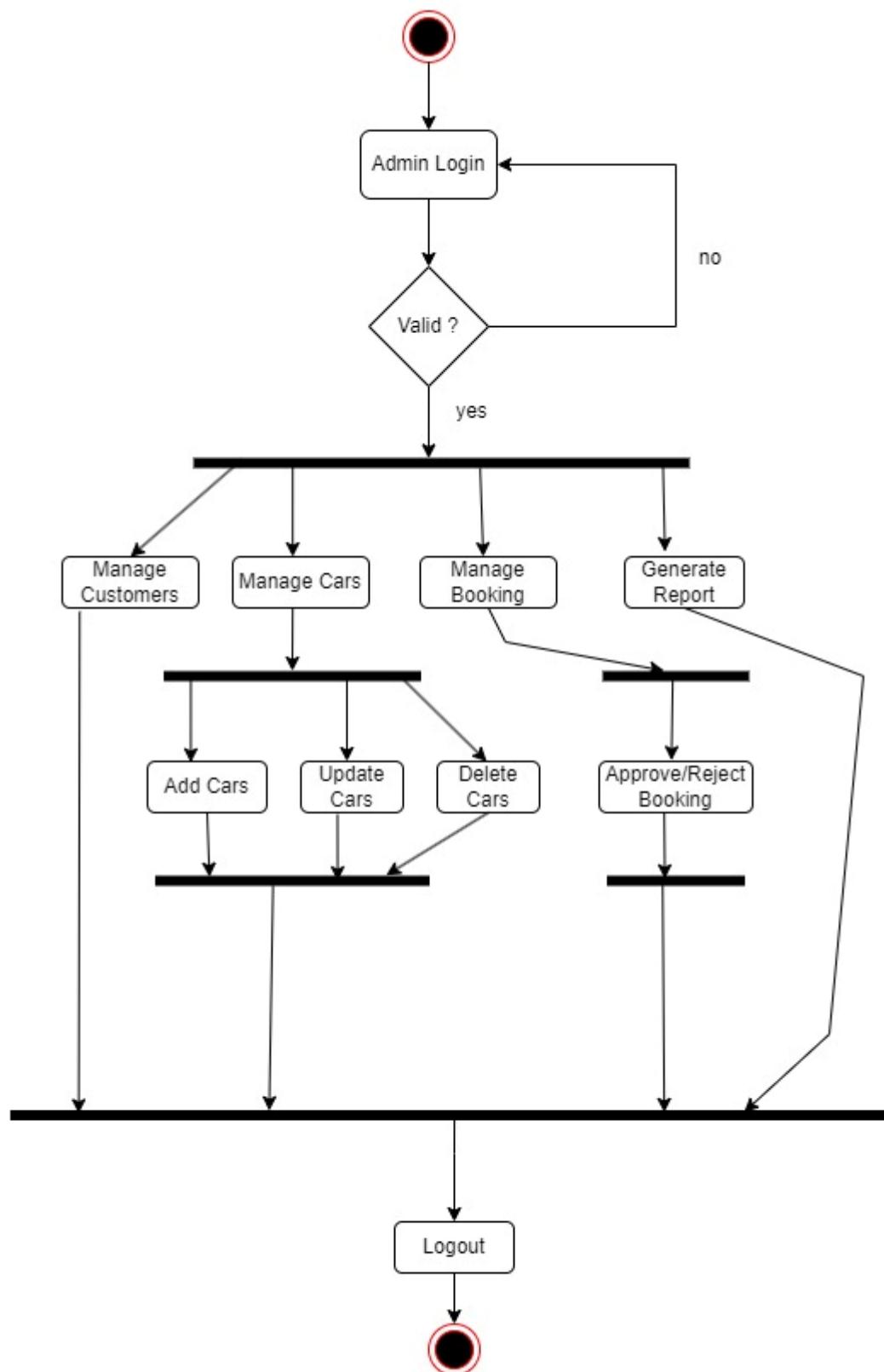
### 3. SYSTEM DESIGN

#### 3.1 Use Case Diagram

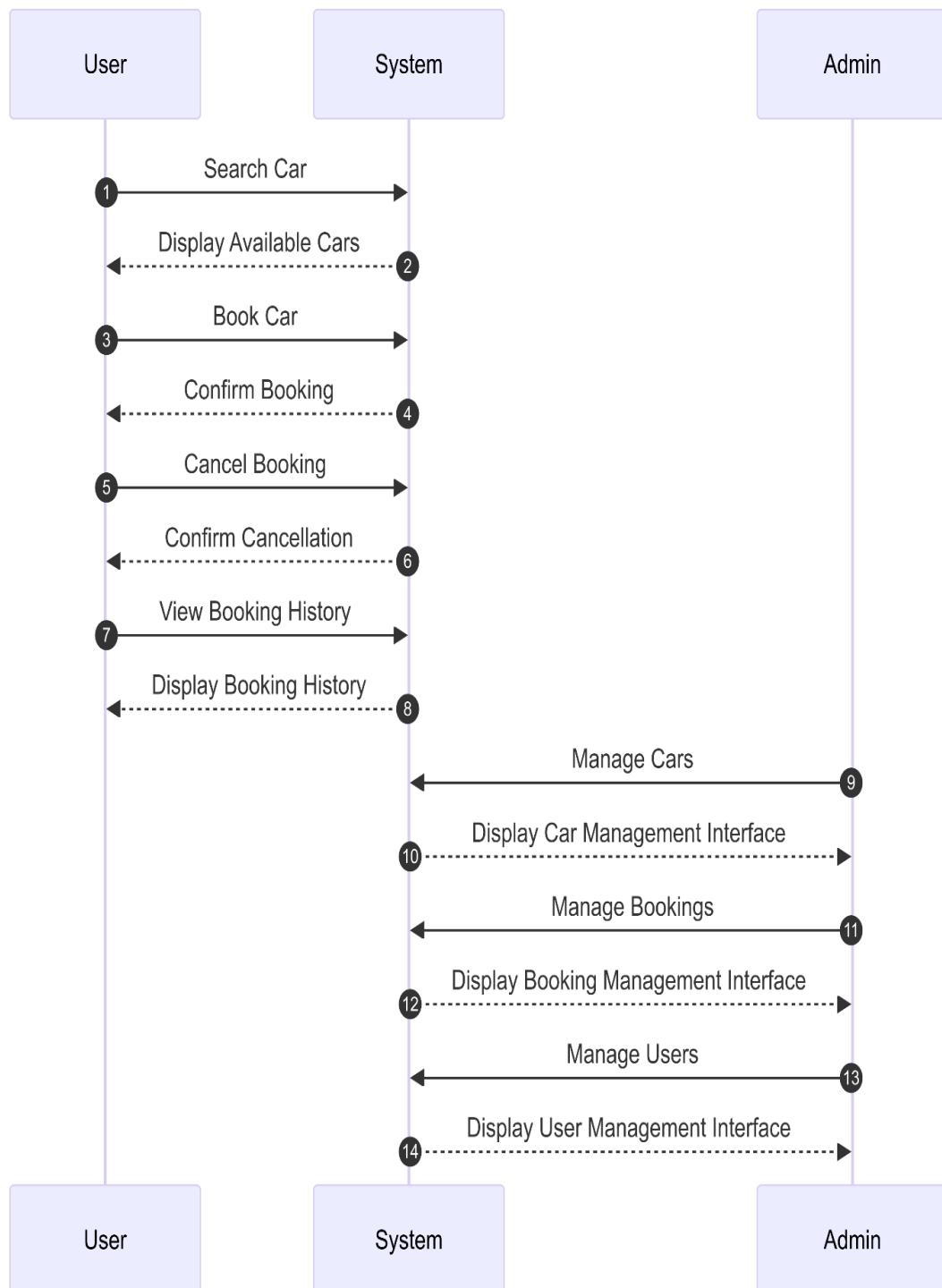


### 3.4 Activity Diagram

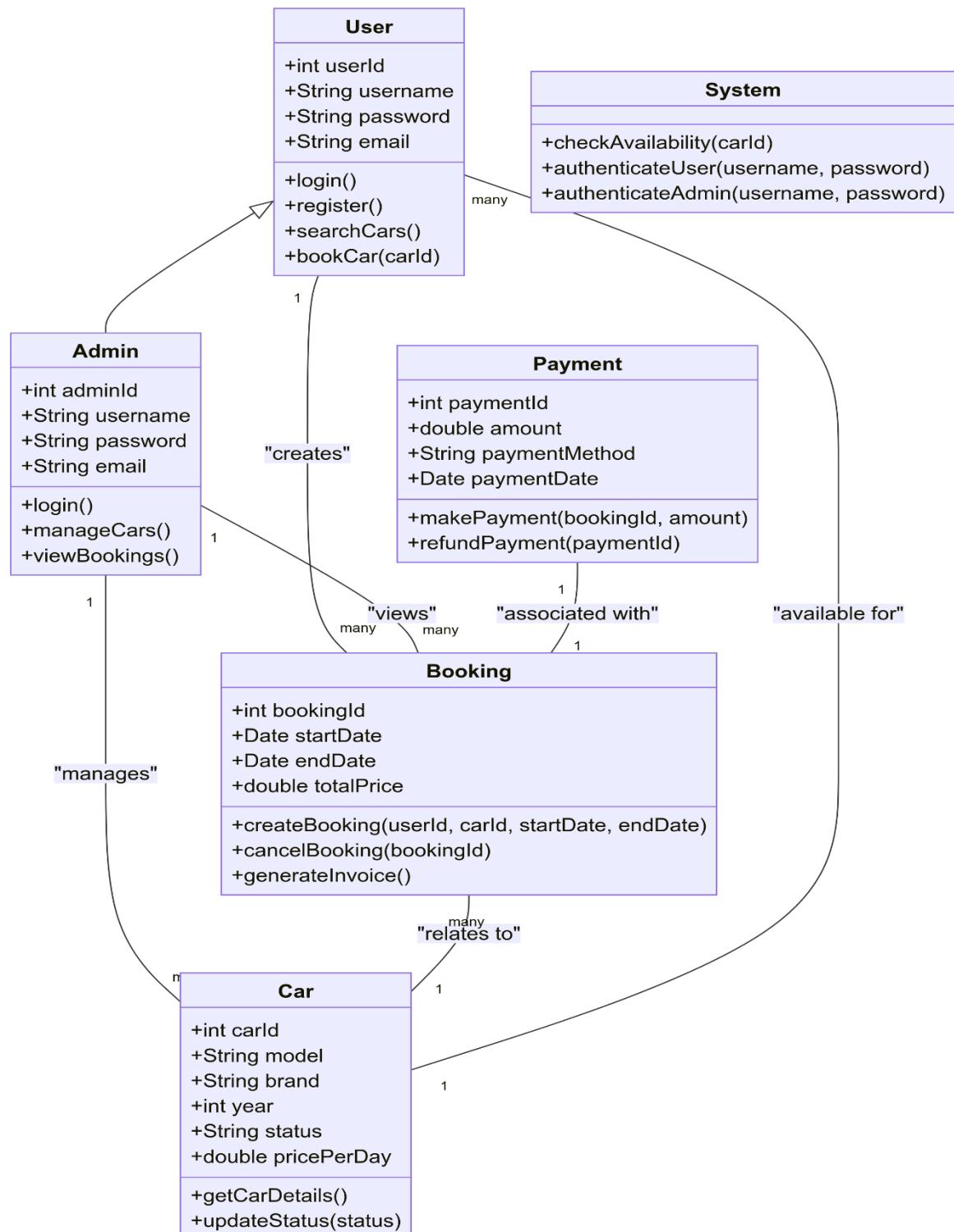




### 3.3 Interaction Diagram



### 3.2 Class Diagram



### **3.5 Data Dictionary**

id	app	name	applied
1	contenttypes	0001_initial	07:31.4
2	auth	0001_initial	07:31.5
3	admin	0001_initial	07:31.6
4	admin	0002_logentry_remove_auto_add	07:31.8
5	admin	0003_logentry_add_action_flag_choices	07:31.8
6	contenttypes	0002_remove_content_type_name	07:32.0
7	auth	0002_alter_permission_name_max_length	07:32.0
8	auth	0003_alter_user_email_max_length	07:32.1
9	auth	0004_alter_user_username_opts	07:32.2
10	auth	0005_alter_user_last_login_null	07:32.4
11	auth	0006_require_contenttypes_0002	07:32.4
12	auth	0007_alter_validators_add_error_messages	07:32.5
13	auth	0008_alter_user_username_max_length	07:32.6
14	auth	0009_alter_user_last_name_max_length	07:32.6
15	auth	0010_alter_group_name_max_length	07:32.7
16	auth	0011_update_proxy_permissions	07:32.8
17	auth	0012_alter_user_first_name_max_length	07:32.9
18	sessions	0001_initial	07:32.9
19	carRental	0001_initial	46:14.5
20	carRental	0002_auto_20220415_1220	50:56.1
21	carRental	0003_auto_20220416_1449	19:09.9
22	carRental	0004_auto_20220416_1631	01:25.7
23	carRental	0005_auto_20220416_1645	47:42.4
24	carRental	0006_delete_booking	47:42.5
25	carRental	0007_booking	47:42.6
26	carRental	0002_auto_20240804_1550	36:30.0
27	carRental	0003_alter_booking_id_alter_brands_id_and_more	36:30.1
28	carRental	0004_auto_20240826_1106	36:30.1
29	ipn	0001_initial	36:30.1
30	ipn	0002_paypalipn_mp_id	36:30.2
31	ipn	0003_auto_20141117_1647	36:30.2
32	ipn	0004_auto_20150612_1826	36:30.5
33	ipn	0005_auto_20151217_0948	36:30.5
34	ipn	0006_auto_20160108_1112	36:30.6
35	ipn	0007_auto_20160219_1135	36:30.6
36	ipn	0008_auto_20181128_1032	36:30.7

## 1. User

Field Name	Datatype	Constraint
id	INTEGER	PRIMARY KEY AUTOINCREMENT
username	TEXT	UNIQUE, NOT NULL
email	TEXT	UNIQUE, NOT NULL
password	TEXT	NOT NULL
First_name	TEXT	NOT NULL
last_name	TEXT	NOT NULL
created_at	DATETIME	DEFAULT CURRENT_TIMESTAMP

## 2. UserDetails

Field Name	DataType	Constraint
id	INTEGER	PRIMARY KEY AUTOINCREMENT
user_id	INTEGER	FOREIGN KEY REFERENCES User(id)
contact_no	TEXT	NOT NULL
dob	DATE	NOT NULL
country	TEXT	NOT NULL
city	TEXT	NOT NULL
address	TEXT	NOT NULL

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### 3. Vehicles

Field Name	DataType	Constraint
id	INTEGER	PRIMARY KEY AUTOINCREMENT
brand_id	INTEGER	FOREIGN KEY REFERENCES Brands(id)
title	TEXT	NOT NULL
overview	TEXT	NOT NULL
price_per_day	REAL	NOT NULL
fuel_type	TEXT	NOT NULL
model_year	INTEGER	NOT NULL
seating_capacity	INTEGER	NOT NULL
image1	BLOB	
image2	BLOB	
image3	BLOB	
image4	BLOB	
image5	BLOB	
features	TEXT	

### 4. Brands

Field Name	DataType	Constraint
id	INTEGER	PRIMARY KEY AUTOINCREMENT
brand_name	TEXT	UNIQUE, NOT NULL

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## 5. Booking

Field Name	DataType	Constraint
<b>id</b>	INTEGER	PRIMARY KEY AUTOINCREMENT
<b>user_id</b>	INTEGER	FOREIGN KEY REFERENCES User(id)
<b>vehicle_id</b>	INTEGER	FOREIGN KEY REFERENCES Vehicles(id)
<b>from_date</b>	DATE	NOT NULL
<b>to_date</b>	DATE	NOT NULL
<b>message</b>	TEXT	
<b>booking_number</b>	TEXT	UNIQUE, NOT NULL
<b>status</b>	TEXT	DEFAULT 'Pending'
<b>created_at</b>	DATETIME	DEFAULT CURRENT_TIMESTAMP

## 6. Contactusquery

Field Name	DataType	Constraint
<b>id</b>	INTEGER	PRIMARY KEY AUTOINCREMENT
<b>name</b>	TEXT	NOT NULL
<b>email_id</b>	TEXT	NOT NULL
<b>contact_no</b>	TEXT	NOT NULL
<b>message</b>	TEXT	NOT NULL
<b>status</b>	TEXT	DEFAULT 'Pending'
<b>created_at</b>	DATETIME	DEFAULT CURRENT_TIMESTAMP

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## 7. PayPalPN

Field Name	DataType	Constraint
id	INTEGER	PRIMARY KEY AUTOINCREMENT
transaction_id	TEXT	UNIQUE, NOT NULL
payment_status	TEXT	NOT NULL
payment_date	DATETIME	NOT NULL
payer_email	TEXT	NOT NULL
created_at	DATETIME	DEFAULT CURRENT_TIMESTAMP

## **4. DEVELOPMENT**

### **4.1 Coding Standard**

Maintaining a consistent coding standard is critical for the readability, reliability, and maintainability of the Car Rental Management System. We follow the PEP 8 guidelines for Python code, ensuring that our syntax is clear and consistent.

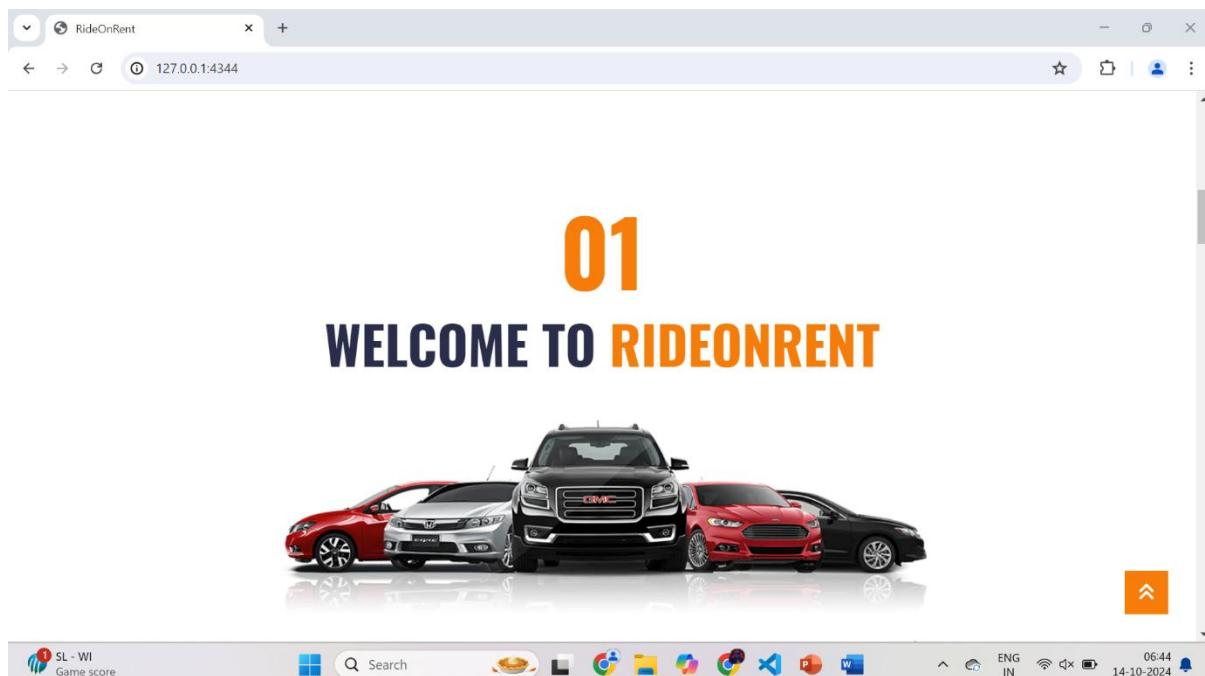
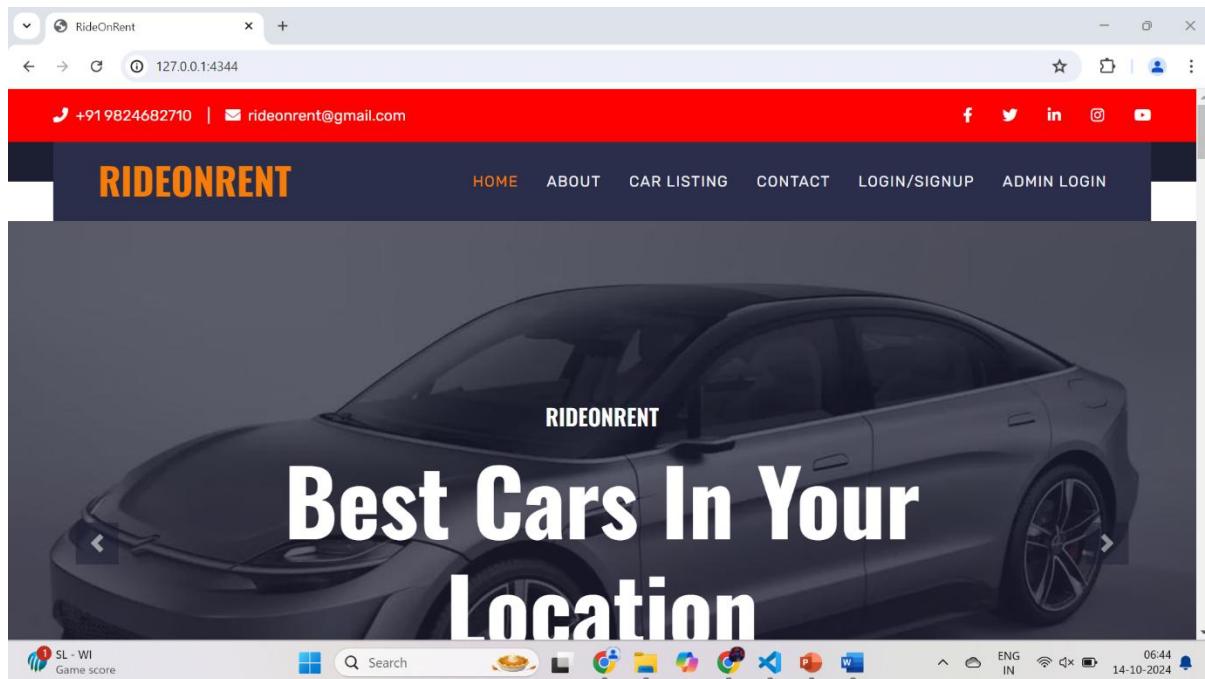
Key practices include:

- Naming Conventions:
  - Variable and function names use snake case to ensure clarity and consistency.
  - Class names use CamelCase to distinguish them from other identifiers.
- Commenting and Documentation:
  - Extensive use of comments and docstrings to explain the purpose of functions, classes, and important code sections.
  - Documentation is used to describe the functionality, parameters, and expected outputs of functions and methods.
- Modularity:
  - The code is organized into modular components. Functions and classes encapsulate specific logic, making the code more reusable and maintainable.
- Code Reviews:
  - We conduct regular code reviews to ensure adherence to coding standards and to identify opportunities for improvement. This collaborative process helps in catching issues early and maintaining consistency across the project.

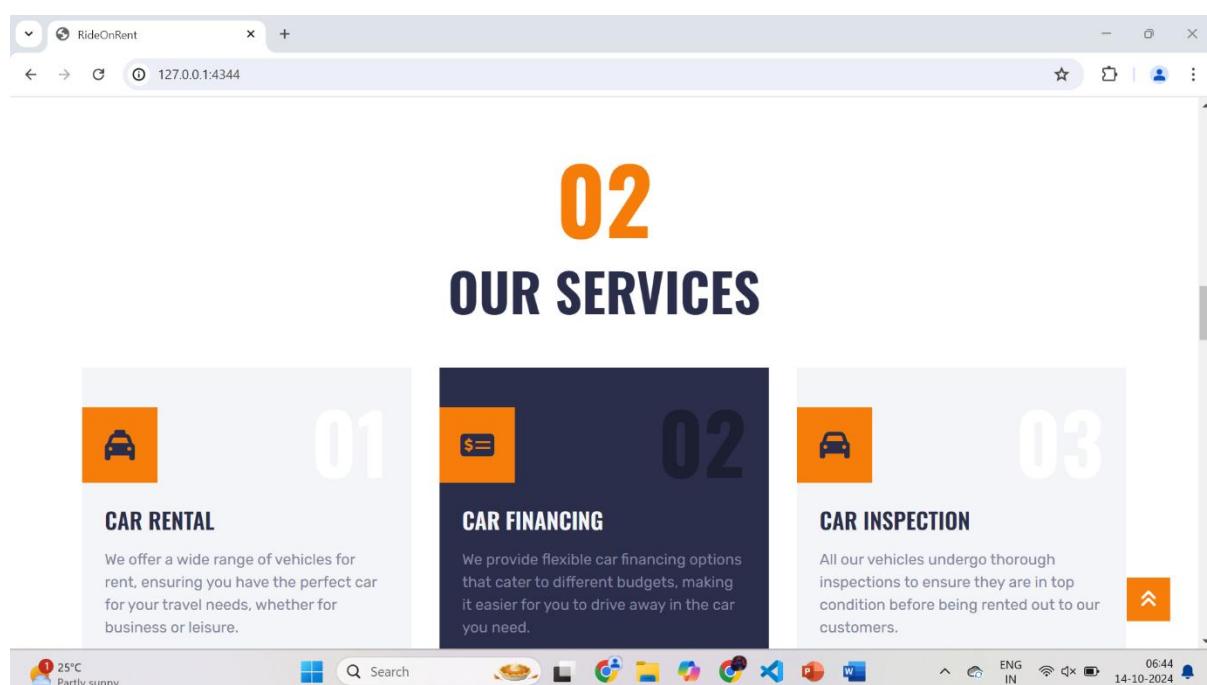
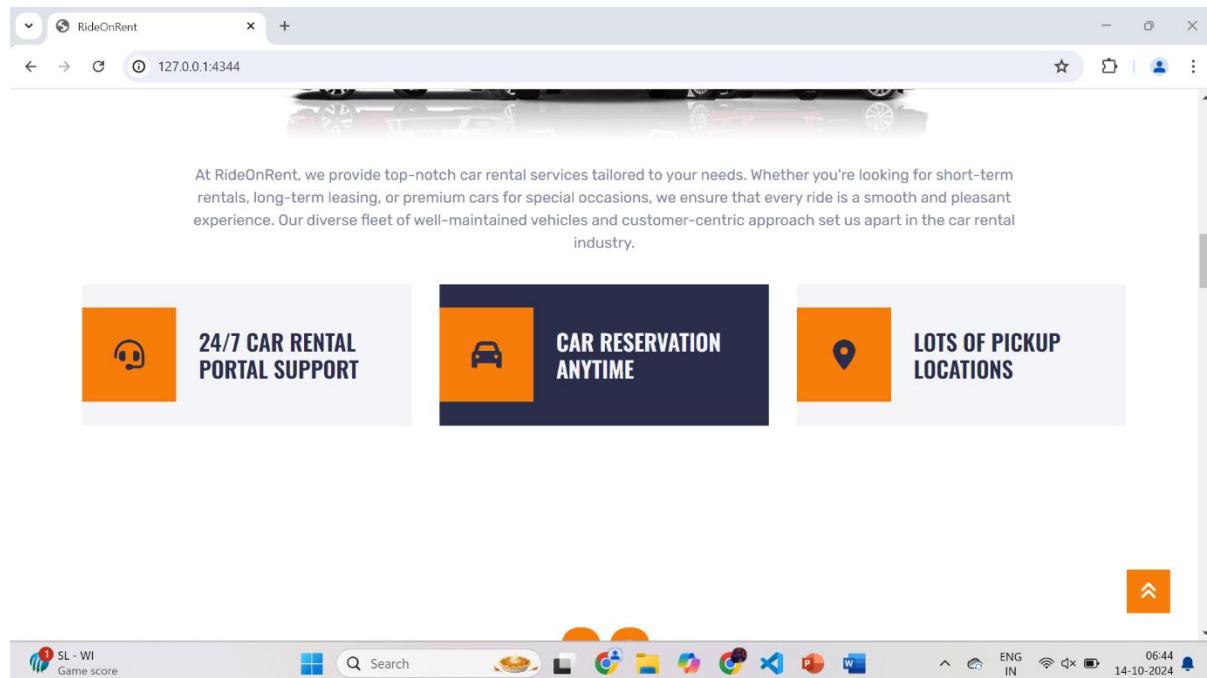
By adhering to these standards, we ensure that the system is scalable, maintainable, and easy to understand for both current and future developers.

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## 4.2 Screenshots



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The screenshot shows a web browser window titled "RideOnRent" with the URL "127.0.0.1:4344". The page content includes a top section with three columns of text. Below this is a section titled "SERVICES" with three numbered items: "04 AUTO REPAIRING", "05 AUTO PAINTING", and "06 AUTO CLEANING". Each item has an orange icon and a brief description.

- AUTO REPAIRING**  
We offer auto repair services to keep your vehicle in excellent shape, ensuring a smooth ride for every journey.
- AUTO PAINTING**  
Our professional auto painting services will give your vehicle a fresh and appealing look.
- AUTO CLEANING**  
We offer comprehensive auto cleaning services to keep your vehicle spotless inside and out.

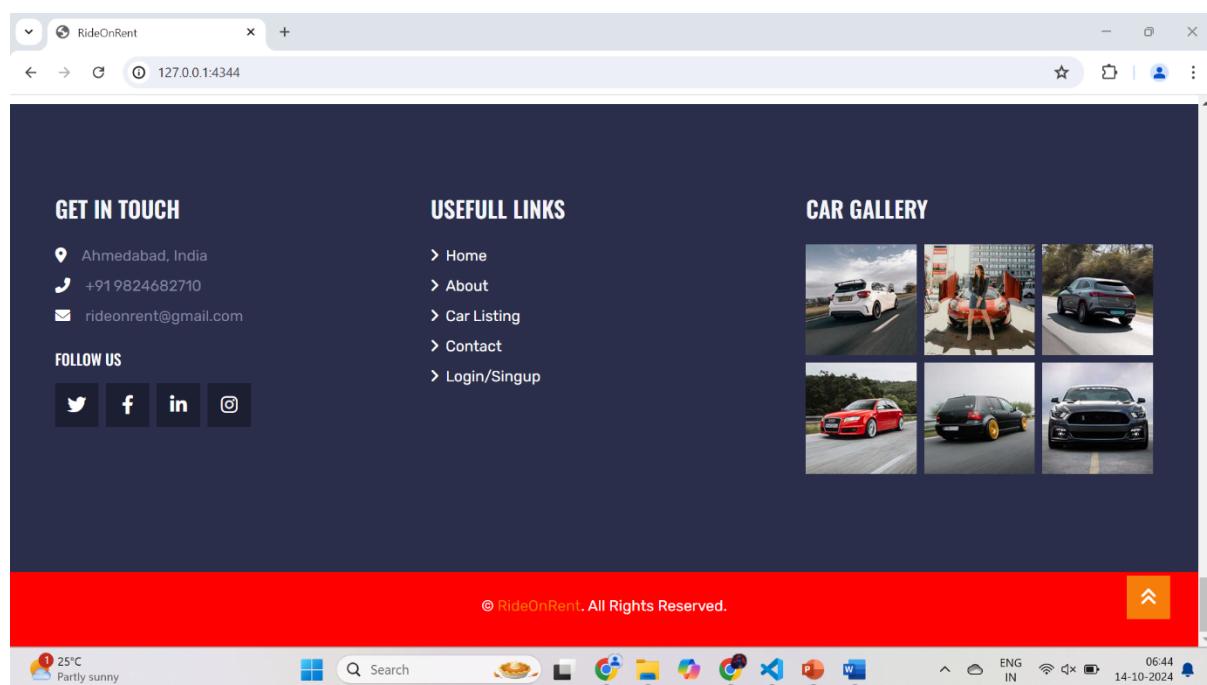
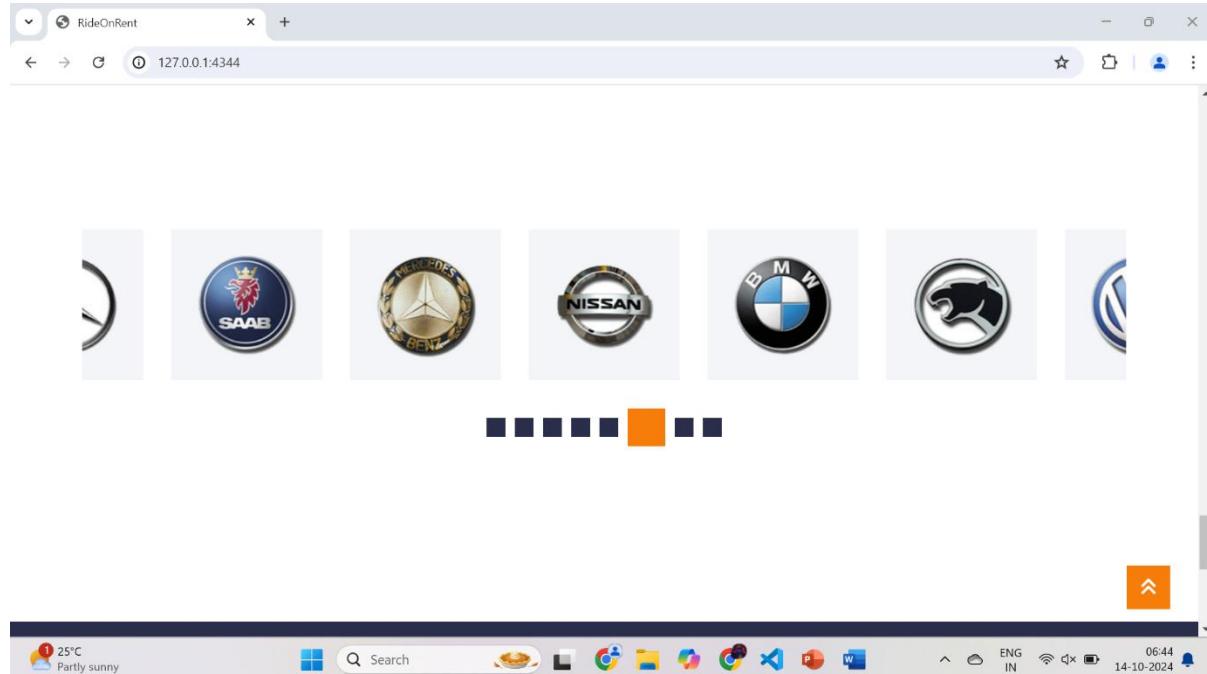
The browser's taskbar at the bottom shows various open applications and the date "14-10-2024".

The screenshot shows a web browser window titled "RideOnRent" with the URL "127.0.0.1:4344". The page features a large "FIND YOUR CAR" heading with two orange chevrons above it. Below the heading are two main sections: "WANT TO BE DRIVER?" on the left and "LOOKING FOR A CAR?" on the right, each featuring a large image of a car.

- WANT TO BE DRIVER?**  
Join our team and start earning by driving with RideOnRent. Flexible schedules and great benefits await you!
- LOOKING FOR A CAR?**  
Explore our wide range of vehicles available for rent at competitive prices. Find the perfect car for your needs today!

The browser's taskbar at the bottom shows various open applications and the date "14-10-2024".

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The screenshot shows the homepage of the RideOnRent website. At the top, there is a header bar with the title "RIDEONRENT" and links for HOME, ABOUT, CAR LISTING, CONTACT, LOGIN/SIGNUP, and ADMIN LOGIN. Below the header are two dropdown menus: "Select Brand" and "Select Fuel Type", followed by a large orange "Search" button. The main heading "FIND YOUR CAR" is prominently displayed. Below it are three thumbnail images of cars: a red Maruti Alto, a black Mahindra XUV500, and a grey Mahindra Thar. The browser's address bar shows the URL "127.0.0.1:4344/carlist". The taskbar at the bottom includes icons for weather (25°C, Partly sunny), search, and various system applications.

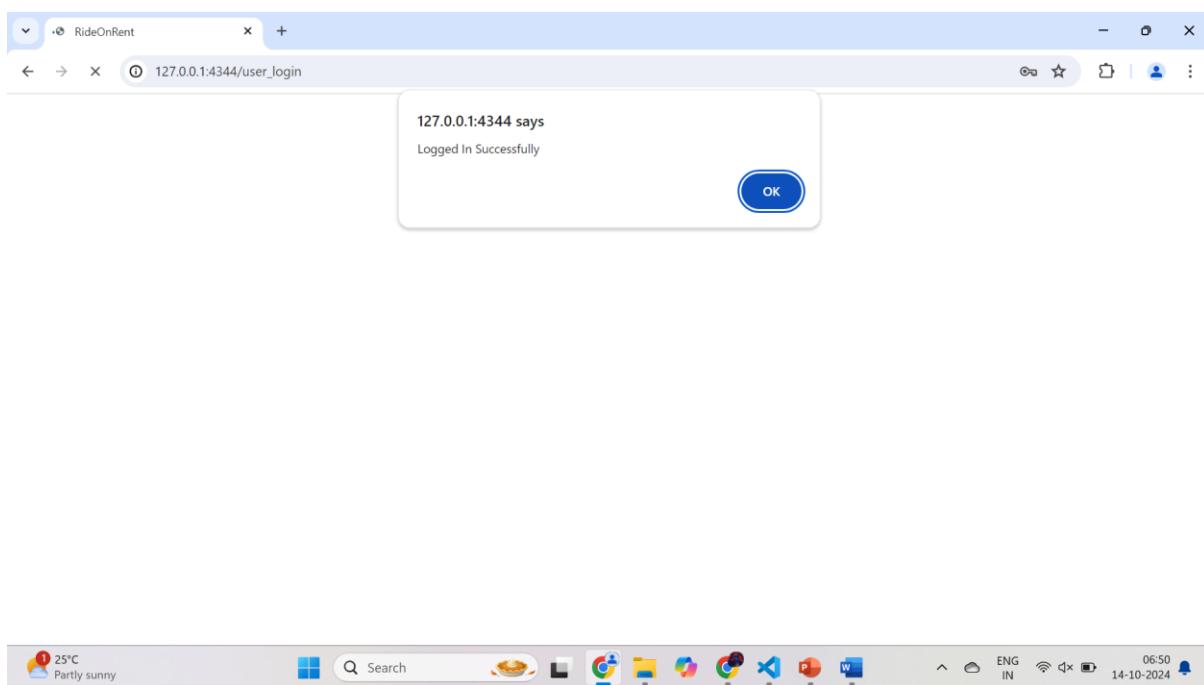
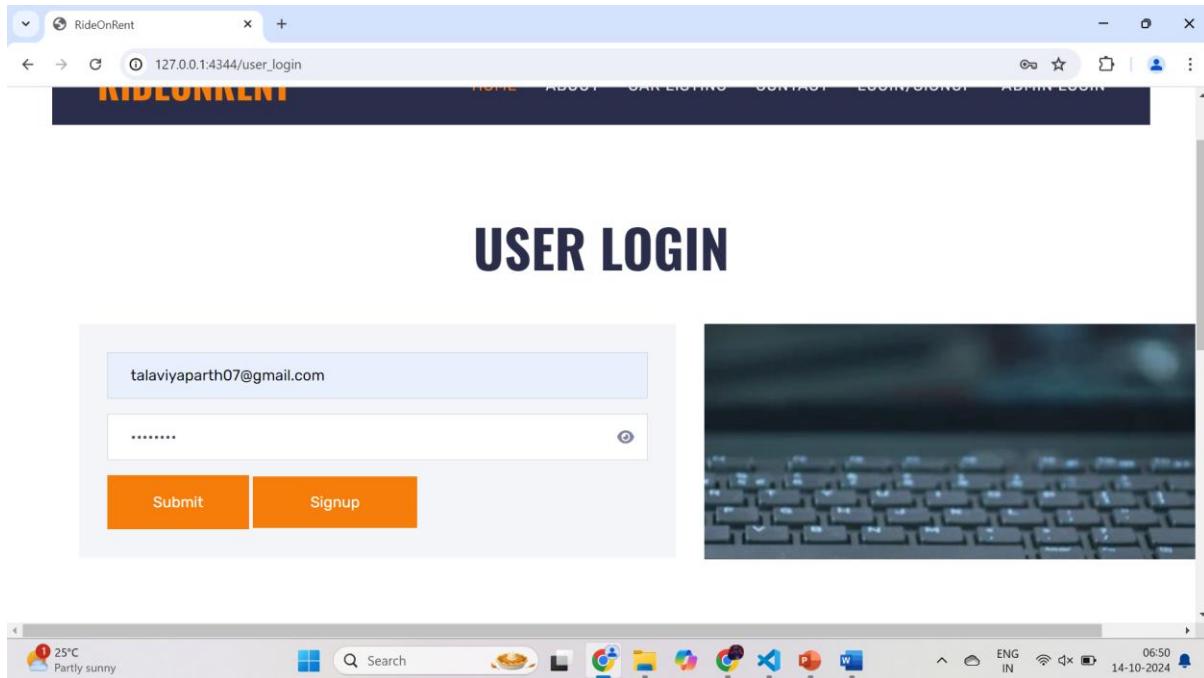
The screenshot shows a list of three car rental options. Each listing includes a thumbnail image, the car model name, key features, and the daily rental price. The first listing is for a Toyota Fortuner, showing a front view of the vehicle. It is described as a 2023 Model, Diesel, 7 Seater car, with a daily rate of 11000 ₹/Day. The second listing is for a Toyota Innova Crysta, shown from a front-three-quarter angle. It is also a 2023 Model, Diesel, 7 Seater car, with a daily rate of 8200 ₹/Day. The third listing is for a Toyota Urban Cruiser, shown from a side-front angle. It is a 2023 Model, Petrol, 5 Seater car, with a daily rate of 9200 ₹/Day. The browser's address bar shows the URL "127.0.0.1:4344/carDetails/10". The taskbar at the bottom is identical to the one in the previous screenshot.

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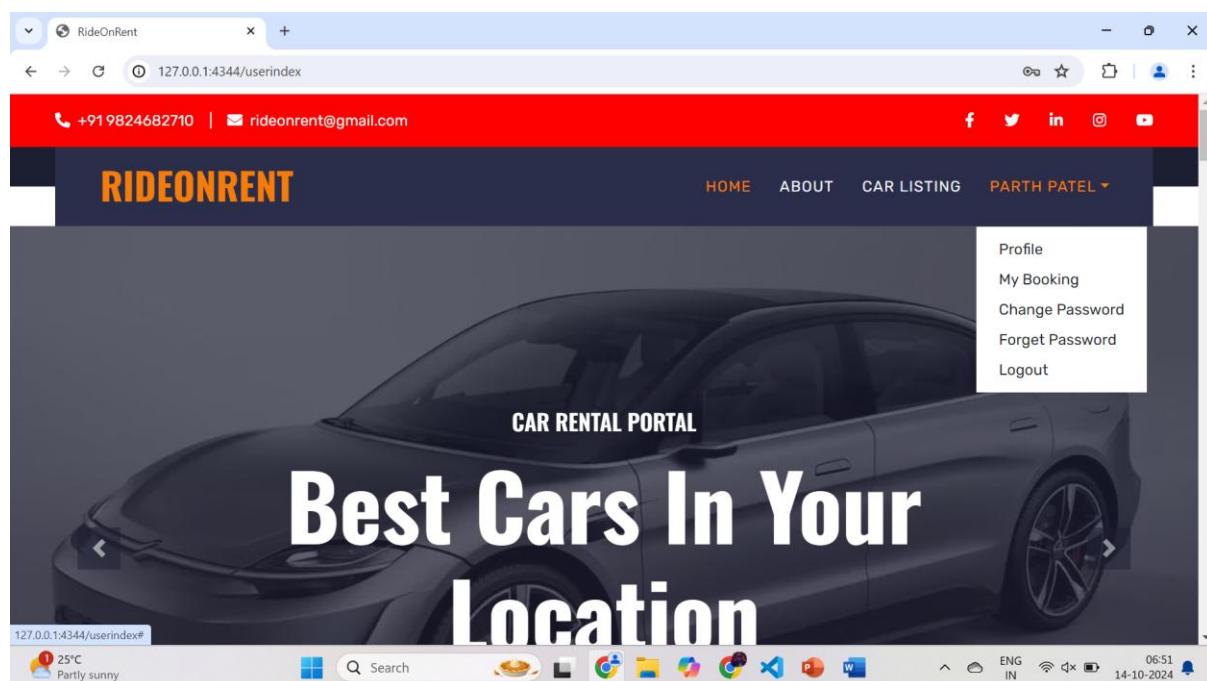
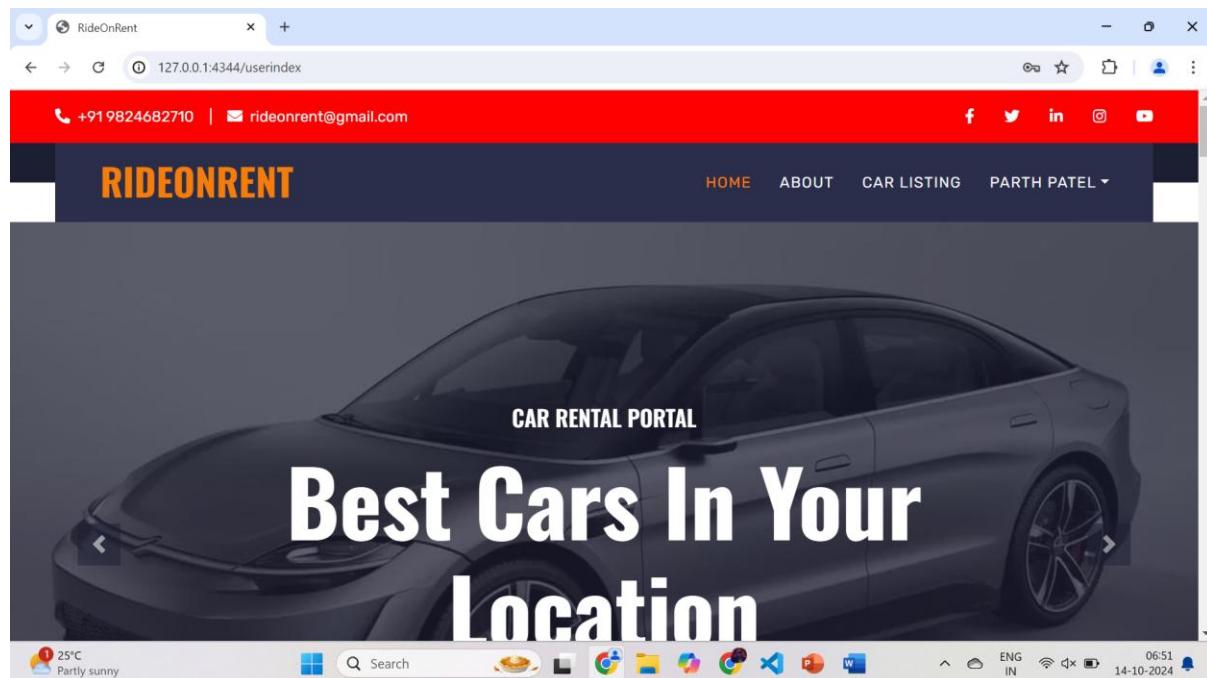
The screenshot shows a web browser window for 'RideOnRent' at the URL 127.0.0.1:4344/carDetails/9. The main content is a listing for a 'TOYOTA, TOYOTA FORTUNER'. It includes a front view of the car, a side view, and two interior views. Technical specifications listed are: Model: 2023, Fuel Type: Diesel, Capacity: 7 Seat, and Price: 11000/day. Below the car details are links for 'Overview' and 'Accessories'. To the right, there is a dark blue 'Book Now' overlay with fields for date selection (dd-mm-yyyy), a message area, and an orange 'Login for Book' button. The browser taskbar at the bottom shows various icons and the date 14-10-2024.

The screenshot shows a web browser window for 'RideOnRent' at the URL 127.0.0.1:4344/user\_login. The header features a red bar with the phone number +919824682710 and email rideonrent@gmail.com. Below it is a dark blue navigation bar with links for HOME, ABOUT, CAR LISTING, CONTACT, LOGIN/SIGNUP, and ADMIN LOGIN. The main content area has a large title 'USER LOGIN'. On the left is a form with input fields for 'Enter Email Id' and 'Enter Password', and buttons for 'Submit' and 'Signup'. To the right is a blurred background image of a keyboard. The browser taskbar at the bottom shows various icons and the date 14-10-2024.

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The screenshot shows a web browser window titled "RideOnRent" with the URL "127.0.0.1:4344/myProfile". The main content area features a blue Mercedes-Benz car on the left with the text "WANT TO BE DRIVE? Then fill the all data and Enjoy them.". To the right is a form with fields for Name (Parth Patel), Date of Birth (8128984596, 10-08-2005), Email (talaviyaparth07@gmail.com), Address (India, Ahmedabad, Sonal Park Society, Ahmedabad 382345), and an "Update" button. The browser's taskbar at the bottom shows weather (25°C, Partly sunny), system icons, and the date/time (14-10-2024, 06:51).

The screenshot shows a web browser window titled "RideOnRent" with the URL "127.0.0.1:4344/myBooking/". The main content area displays a table titled "MY BOOKING" with one row of data. The table columns are: #, Booking No., Vehicle, From Date, To Date, Status, Booking Date, and Action. The data row is: 1, 25762591, Mahindra Thar, Aug. 27, 2024, Aug. 29, 2024, Confirm, Aug. 26, 2024, 5:47 a.m., with three action buttons (edit, delete, etc.) in the last column. The browser's taskbar at the bottom shows weather (25°C, Partly sunny), system icons, and the date/time (14-10-2024, 06:51).

The screenshot shows a dark footer section with three links: "GET IN TOUCH", "USEFUL LINKS", and "CAR GALLERY". Below these links is a row of small icons representing various services or links. The browser's taskbar at the bottom shows weather (25°C, Partly sunny), system icons, and the date/time (14-10-2024, 06:51).

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The screenshot shows a web browser window titled "RideOnRent" with the URL "127.0.0.1:4344/mybookingDtls/1". The main content is titled "MY BOOKING DETAILS" and displays the following booking information:

Name	Parth Patel		
Booking No	25762591		
Brand	Mahindra	Vehicle Name	Mahindra Thar
From Date	Aug. 27, 2024	To Date	Aug. 29, 2024
Message	ok	Status	Confirm
Total Days	2	Rent/Day	4400
		Grand Total	8800 ₹

Below the table, there is a "Pay with PayPal" button with a "Pay Now" button and a "Print Booking Receipt" link.

The taskbar at the bottom shows various application icons and the system clock indicating 06:52 on 14-10-2024.

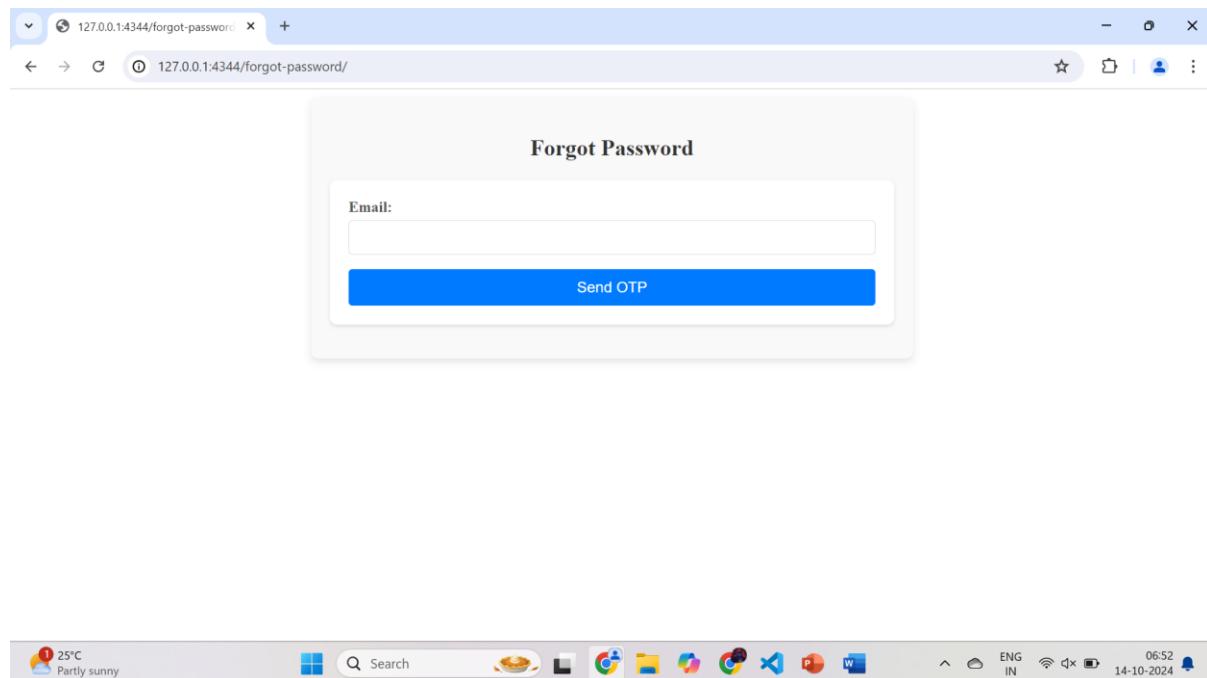
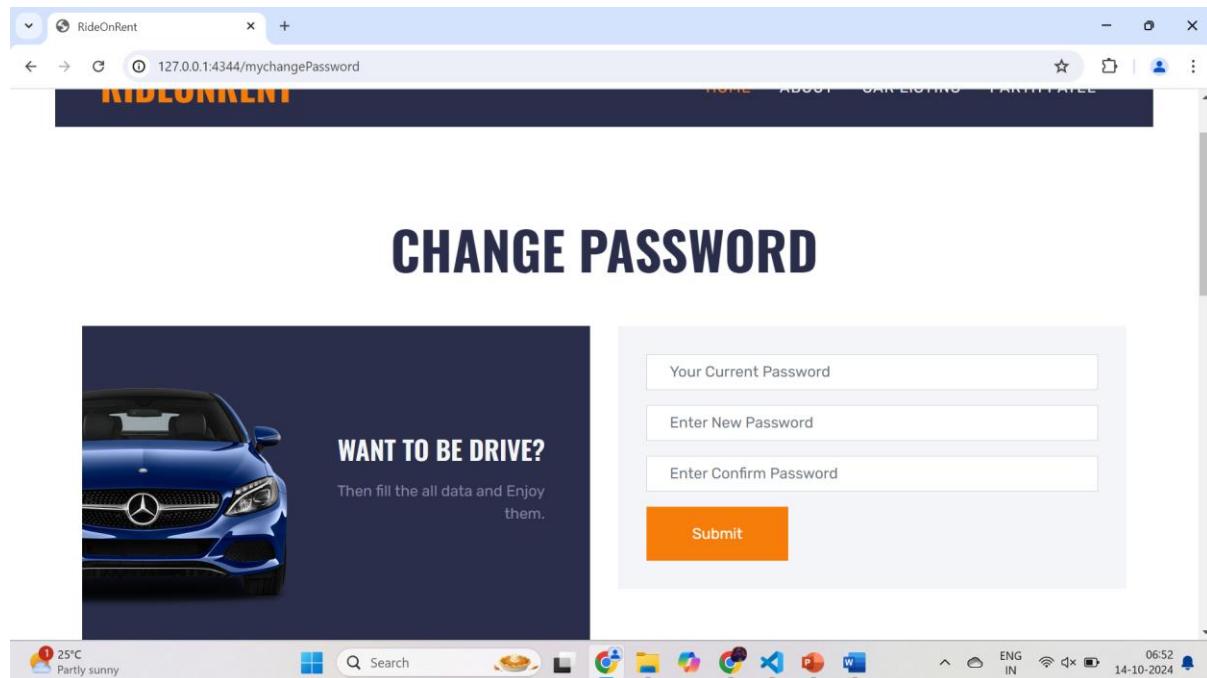
The screenshot shows a web browser window titled "RideOnRent" with the URL "127.0.0.1:4344/mybookingDtls/1". The main content is identical to the previous screenshot. A "Print" dialog box is overlaid on the page, containing the following settings:

- Print: 1 page
- Destination: Save as PDF
- Pages: All
- Pages per sheet: 1
- Margins: Default
- Options:
  - Headers and footers
  - Background graphics

At the bottom right of the dialog box are "Save" and "Cancel" buttons.

The taskbar at the bottom shows various application icons and the system clock indicating 06:52 on 14-10-2024.

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The screenshot shows a web browser window titled "RideOnRent" with the URL "127.0.0.1:4344/myBooking/update/1/". The page has a dark header with "RIDEONRENT" and a navigation bar with links for HOME, ABOUT, CAR ELECTRIC, and PARTNERSHIP. The main content area is titled "UPDATE BOOKING". It contains fields for "Vehicle" (set to "Mahindra Thar"), "From Date" (set to "27-08-2024"), and "To Date" (set to "29-08-2024"). Below these fields are messages indicating previous bookings: "Previous booking from date: 2024-08-27" and "Previous booking to date: 2024-08-29". At the bottom is an orange "Update Booking" button.



The screenshot shows a web browser window titled "RideOnRent" with the URL "127.0.0.1:4344/myBooking/". A modal dialog box is centered on the screen with the message "127.0.0.1:4344 says" followed by "Are you sure you want to cancel this booking? This action cannot be undone." There are "OK" and "Cancel" buttons at the bottom of the dialog. Below the dialog is a table listing a booking entry:

#	Booking No.	Vehicle	From Date	To Date	Status	Booking Date	Action
1	25762591	Mahindra Thar	Aug. 27, 2024	Aug. 29, 2024	Confirm	Aug. 26, 2024, 5:47 a.m.	

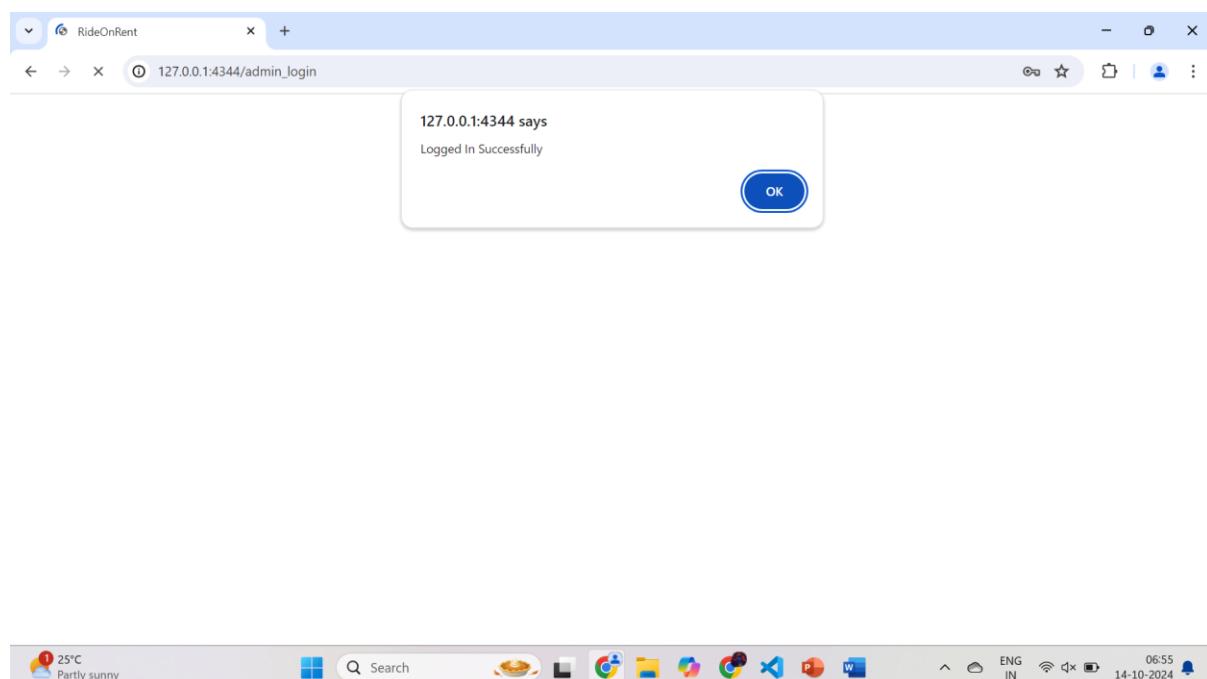
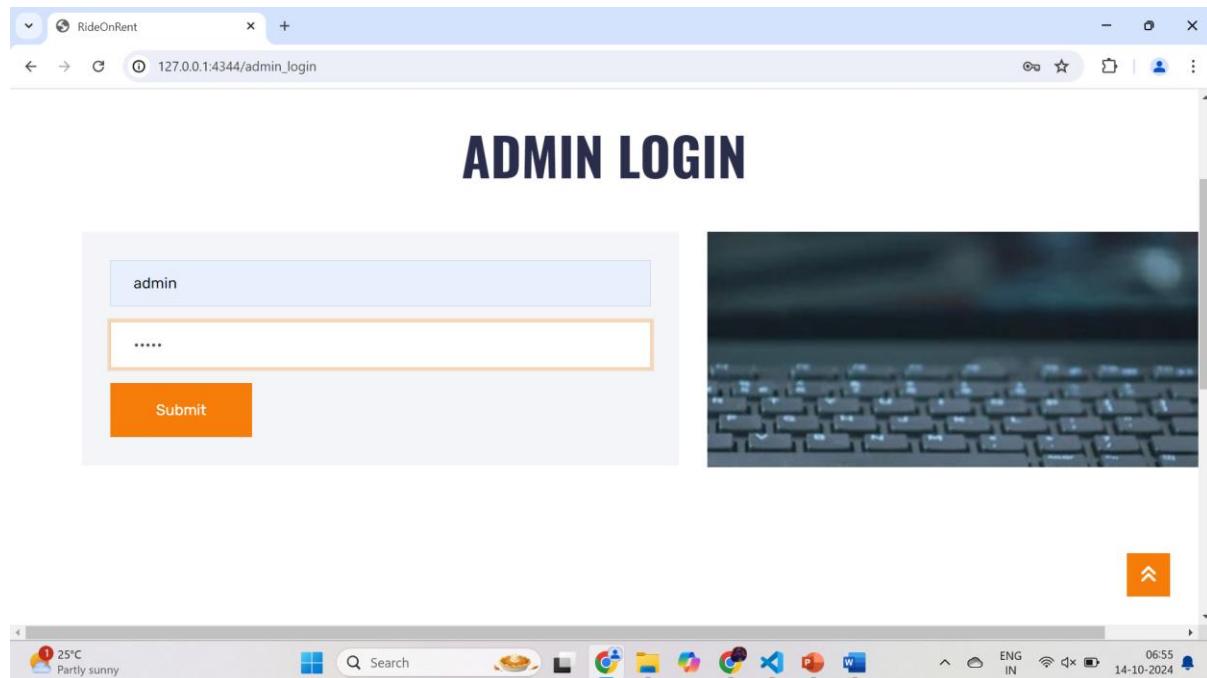


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The screenshot shows a web browser window titled "RideOnRent" with the URL "127.0.0.1:4344/signup". The main content is a "SIGNUP FORM" with a large image of a blue Mercedes-Benz car on the left. The text "WANT TO BE DRIVE?" is displayed above the car, with the subtext "Then fill the all data and Enjoy them." Below the car. The form itself consists of several input fields: "Your First Name", "Your Last Name", "Your Contact Number", "Your Date of Birth", "Your Email", "Your Password", "Your Country", "Your City", and "Your Address". An orange "Submit" button is at the bottom right. The status bar at the bottom of the screen shows weather information (25°C, Partly sunny), system icons, and the date/time (14-10-2024, 06:53).

The screenshot shows a web browser window titled "RideOnRent" with the URL "127.0.0.1:4344/admin\_login". The header features the "RIDEONRENT" logo and navigation links for "HOME", "ABOUT", "CAR LISTING", "CONTACT", "LOGIN/SIGNUP", and "ADMIN LOGIN". The main content is an "ADMIN LOGIN" form with fields for "Enter Username" and "Enter Password", and an orange "Submit" button. To the right of the form is a blurred image of a computer keyboard. The status bar at the bottom shows weather information (25°C, Partly sunny), system icons, and the date/time (14-10-2024, 06:54).

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The screenshot shows the RideOnRent Admin Dashboard. On the left, a sidebar titled "Admin Modules" includes links for Dashboard, Brands, Vehicles, Booking, Contact Query, Reg Users, Search, Between Date Report, Change Password, and Logout. The main dashboard area has a title "Dashboard" and displays five key metrics in boxes: "REG USERS" (4), "LISTED VEHICLES" (7), "TOTAL BOOKINGS" (5), "LISTED BRANDS" (13), "UNREAD QUERIES" (1), and "READ QUERIES" (1). The status bar at the bottom shows the IP address 127.0.0.1:4344/brands, the date 14-10-2024, and the time 06:56.

The screenshot shows the "Register User" page. The sidebar on the left is identical to the one in the previous screenshot. The main area is titled "Register User" and features a table with columns: #, Full Name, Email Id, Contact No., DOB, Address, City, Country, Reg Date, and Action. The table contains four entries:

#	Full Name	Email Id	Contact No.	DOB	Address	City	Country	Reg Date	Action
1	Parth Patel	talaviyaparth07@gmail.com	8128984596	Aug. 10, 2005	Sonal Park Society, Ahmedabad 382345	Ahmedabad	India	July 30, 2024, 6:29 a.m.	
2	Sahil Aghara	sahilpatel11@gmail.com	9824682715	Nov. 19, 2005	Naroda, Ahmedabad	Ahmedabad	India	Aug. 26, 2024, 5:49 a.m.	
3	Rudra Vaddoriya	rudravaddoriya2004@gmail.com	9925364922	Sept. 17, 2004	A-74 Krushnunj Society, Uttamnagar, Ahmedabad 382350	Ahmedabad	India	Sept. 20, 2024, 8:44 a.m.	
4	Parth Patel	talaviyaparth01@gmail.com	8128984596	Jan. 1, 2001	66,Sonal Park Society, Ahmedabad 382345	Ahmedabad	India	Oct. 13, 2024, 11:49 a.m.	

The status bar at the bottom shows the date 14-10-2024 and the time 06:57.

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#	Full Name	Email Id	Contact No.	DOB	Address	City	Country	Reg Date	Action
1	Parth Patel	talaviyaparth07@gmail.com	8128984596	Aug. 10, 2005	Sonal Park Society, Ahmedabad 382345	Ahmedabad	India	July 30, 2024, 6:29 a.m.	
4	Parth Patel	talaviyaparth01@gmail.com	8128984596	Jan. 1, 2001	66,Sonal Park Society, Ahmedabad 382345	Ahmedabad	India	Oct. 13, 2024, 11:49 a.m.	

#	Full Name	Booking No.	Vehicle	From Date	To Date	Status	Posting Date	Action
1	Parth Patel	25762591	Mahindra, Mahindra Thar	Aug. 27, 2024	Aug. 29, 2024	Confirm	Aug. 26, 2024, 5:47 a.m.	
2	Rudra Vaddoriya	69250881	Mahindra, Mahindra Alturas G4	Oct. 6, 2024	Oct. 10, 2024	Not Update Yet	Sept. 29, 2024, 2:46 a.m.	
3	Rudra Vaddoriya	42491661	Mahindra, Mahindra Alturas G4	Oct. 26, 2024	Oct. 27, 2024	Not Update Yet	Sept. 29, 2024, 2:49 a.m.	
4	Rudra Vaddoriya	55842241	Mahindra, Mahindra Thar	Sept. 24, 2024	Sept. 27, 2024	Updated	Sept. 29, 2024, 2:54 a.m.	
5	Rudra Vaddoriya	36836025	TOYOTA, Toyota Innova Crysta	Sept. 30, 2024	Oct. 2, 2024	Updated	Sept. 29, 2024, 2:56 a.m.	

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The screenshot shows a web browser window titled "RideOnRent" with the URL "127.0.0.1:4344/brands". The left sidebar contains navigation links for Brands, Vehicles, Booking, Contact Query, Reg Users, Search, Between Date Report, Change Password, and Logout. The main content area is titled "Manage Brand" and displays a table of car brands. The table has columns for #, Brand Name, Creation Date, and Action. The data shows 10 entries from 1 to 10, with the last entry being Volkswagen AG. The bottom of the screen shows a Windows taskbar with various icons and system status.

#	Brand Name	Creation Date	Action
1	Kia	July 30, 2024, 6:32 a.m.	[Edit] [Delete]
2	Mahindra	July 30, 2024, 6:34 a.m.	[Edit] [Delete]
3	Tata Motors	July 30, 2024, 6:34 a.m.	[Edit] [Delete]
4	Maruti Suzuki	July 30, 2024, 6:35 a.m.	[Edit] [Delete]
5	Hyundai	July 30, 2024, 6:35 a.m.	[Edit] [Delete]
6	Skoda	July 30, 2024, 6:35 a.m.	[Edit] [Delete]
7	TOYOTA	July 30, 2024, 6:36 a.m.	[Edit] [Delete]
8	Honda	July 30, 2024, 6:37 a.m.	[Edit] [Delete]
9	MG Motor	July 30, 2024, 6:37 a.m.	[Edit] [Delete]
10	Volkswagen AG	July 30, 2024, 6:38 a.m.	[Edit] [Delete]

This screenshot is identical to the one above, showing the "Manage Brand" page with the same 10 entries of car brands. The interface, sidebar, and system status bar are also identical.

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The screenshot shows the 'Update Brand' page of the RideOnRent Admin portal. The URL in the browser is 127.0.0.1:4344/editBrand/16. The left sidebar shows 'Admin Modules' with options like Dashboard, Brands, Vehicles, Booking, Contact Query, Reg Users, Search, Between Date Report, Change Password, and Logout. The main content area has a title 'Update Brand' with a sub-section 'Brand Name'. A text input field contains 'Kia'. On the right, there is a blue 'Update' button. At the bottom, a copyright notice reads 'Copyright © Car Rental Portal Management System. All rights reserved.' The system status bar at the bottom right shows '07:24 14-10-2024'.

The screenshot shows the 'Add New Vehicle' page of the RideOnRent Admin portal. The URL in the browser is 127.0.0.1:4344/addVehicle. The left sidebar is identical to the previous screenshot. The main content area has a title 'Add New Vehicle'. It includes fields for 'Vehicle Title' (with placeholder 'Enter vehicle title'), 'Brand' (with placeholder 'Select Brand'), 'Vehicle Overview' (a large text area), 'Price Per Day (In Rs.)' (a text input field), 'Select Fuel Type' (a dropdown menu), 'Model Year' (a text input field), 'Seating Capacity' (a text input field), and 'Upload Images' with five file upload fields labeled 'Image 1' through 'Image 5'. Below these are sections for 'Accessories' with checkboxes for various vehicle features like Air Conditioner, Power Steering, CD Player, Power Door Locks, Driver Airbag, Central Locking, AntiLock Braking System, Passenger Airbag, Crash Sensor, Brake Assist, Power Windows, and Leather Seats. A blue 'Submit' button is located at the bottom right. The system status bar at the bottom right shows '07:25 14-10-2024'.

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The screenshot shows the 'New Booking' section of the RideOnRent Admin Dashboard. The URL is 127.0.0.1:4344/newBooking. The page title is 'New Booking'. A search bar is at the top right. Below it is a table with columns: #, Full Name, Booking No., Vehicle, From Date, To Date, Status, Posting Date, and Action. Two entries are listed:

#	Full Name	Booking No.	Vehicle	From Date	To Date	Status	Posting Date	Action
1	Rudra Vaddoriya	69250881	Mahindra, Mahindra Alturas G4	Oct. 6, 2024	Oct. 10, 2024	Not Update Yet	Sept. 29, 2024, 2:46 a.m.	<button>View</button>
2	Rudra Vaddoriya	42491661	Mahindra, Mahindra Alturas G4	Oct. 26, 2024	Oct. 27, 2024	Not Update Yet	Sept. 29, 2024, 2:49 a.m.	<button>View</button>

Showing 1 to 2 of 2 entries. The bottom right shows navigation buttons: Previous, 1, Next. The status bar at the bottom right shows the date as 14-10-2024 and time as 07:28.

The screenshot shows the 'Confirm Booking' section of the RideOnRent Admin Dashboard. The URL is 127.0.0.1:4344/confirmBooking. The page title is 'Confirm Booking'. A search bar is at the top right. Below it is a table with columns: #, Full Name, Booking No., Vehicle, From Date, To Date, Status, Posting Date, and Action. One entry is listed:

#	Full Name	Booking No.	Vehicle	From Date	To Date	Status	Posting Date	Action
1	Parth Patel	25762591	Mahindra, Mahindra Thar	Aug. 27, 2024	Aug. 29, 2024	Confirm	Aug. 26, 2024, 5:47 a.m.	<button>View</button>

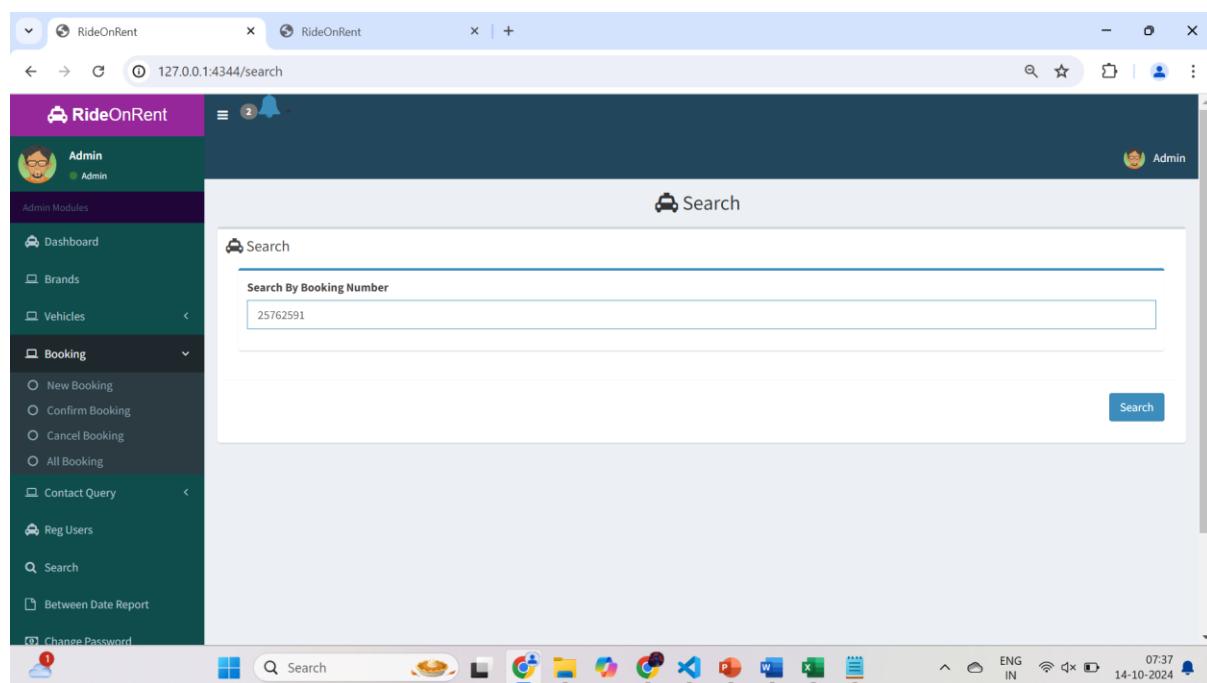
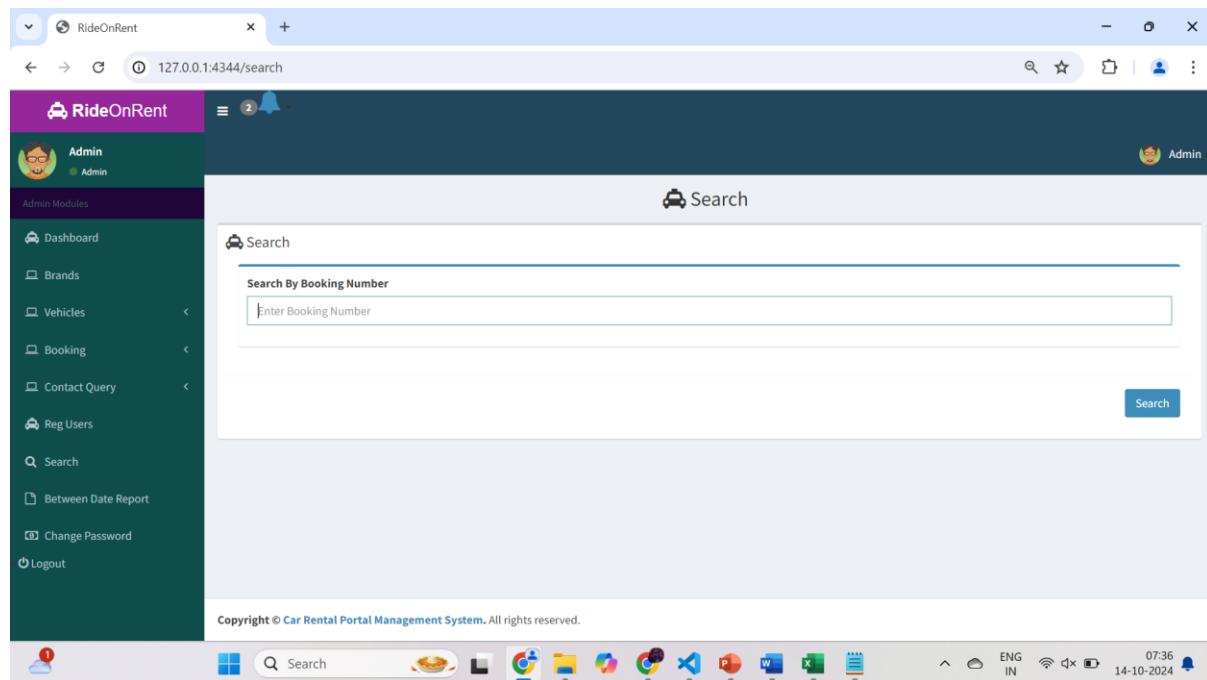
Showing 1 to 1 of 1 entries. The bottom right shows navigation buttons: Previous, 1, Next. The status bar at the bottom right shows the date as 14-10-2024 and time as 07:30.

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The screenshot shows the 'All Booking' page of the RideOnRent Admin portal. The left sidebar contains navigation links for Dashboard, Brands, Vehicles, Booking, Contact Query, Reg Users, Search, Between Date Report, Change Password, and Logout. The main content area displays a table titled 'All Booking' with columns: #, Full Name, Booking No., Vehicle, From Date, To Date, Status, Posting Date, and Action. The table lists five entries. At the bottom, it says 'Showing 1 to 5 of 5 entries' and includes 'Previous' and 'Next' buttons. The status column shows values like 'Confirm', 'Not Update Yet', and 'Updated'. The posting date column shows specific times like 'Aug. 26, 2024, 5:47 a.m.' and 'Sept. 29, 2024, 2:49 a.m.'. The action column contains icons for edit and delete.

The screenshot shows the 'Register User' page of the RideOnRent Admin portal. The left sidebar is identical to the previous screenshot. The main content area displays a table titled 'Register User' with columns: #, Full Name, Email Id, Contact No., DOB, Address, City, Country, Reg Date, and Action. The table lists four entries. At the bottom, it says 'Showing 1 to 4 of 4 entries' and includes 'Previous' and 'Next' buttons. The reg date column shows specific times like 'July 30, 2024, 6:29 a.m.' and 'Sept. 20, 2024, 8:44 a.m.'. The action column contains icons for edit and delete.

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The screenshot shows the 'Search' page of the RideOnRent Admin portal. The left sidebar has 'Admin' selected under 'Admin Modules'. The main area has a search bar for 'Booking Number' with placeholder 'Enter Booking Number'. Below it is a table titled 'Result Against "25762591" Keyword' with columns: S.No, Full Name, Booking No., Email ID, and Action. One entry is shown: S.No 1, Full Name Parth Patel, Booking No. 25762591, Email ID talaviyaparth07@gmail.com, and Action 'View Details'. The bottom of the page includes a copyright notice and a Windows taskbar.

The screenshot shows the 'View Booking Details' page of the RideOnRent Admin portal. The left sidebar has 'Admin' selected under 'Admin Modules'. The main area displays booking details for booking number 25762591. It includes sections for 'View Booking Details' (Booking Number, Email Id, Address, Country), 'Booking Details' (Vehicle Name, From Date, Total Days, Grand Total, Booking Status, Updation Date), and a note about the total amount being 8800 Rs. The bottom of the page includes a copyright notice and a Windows taskbar.

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The screenshot shows the 'Report Between Date' page of the RideOnRent admin portal. The left sidebar has 'Admin Modules' with 'Dashboard', 'Brands', 'Vehicles', 'Booking', 'Contact Query', 'Reg Users', 'Search', 'Between Date Report', 'Change Password', and 'Logout'. The main area has a title 'Report Between Date' with fields for 'From Date' (29-12-2020) and 'To Date' (14-10-2024), a 'Submit' button, and a note 'Copyright © Car Rental Portal Management System. All rights reserved.' The bottom taskbar shows various icons and the date 14-10-2024.

The screenshot shows the 'Between Date Report Details' page. The left sidebar is identical to the previous screenshot. The main area displays a table titled 'Report From 2020-12-29 to 2024-10-14' with columns: #, Full Name, Booking No., From Date, To Date, Status, Posting Date, and Action. The table contains 5 entries. Below the table, it says 'Showing 1 to 5 of 5 entries' and has 'Previous' and 'Next' buttons. The bottom taskbar shows various icons and the date 14-10-2024.

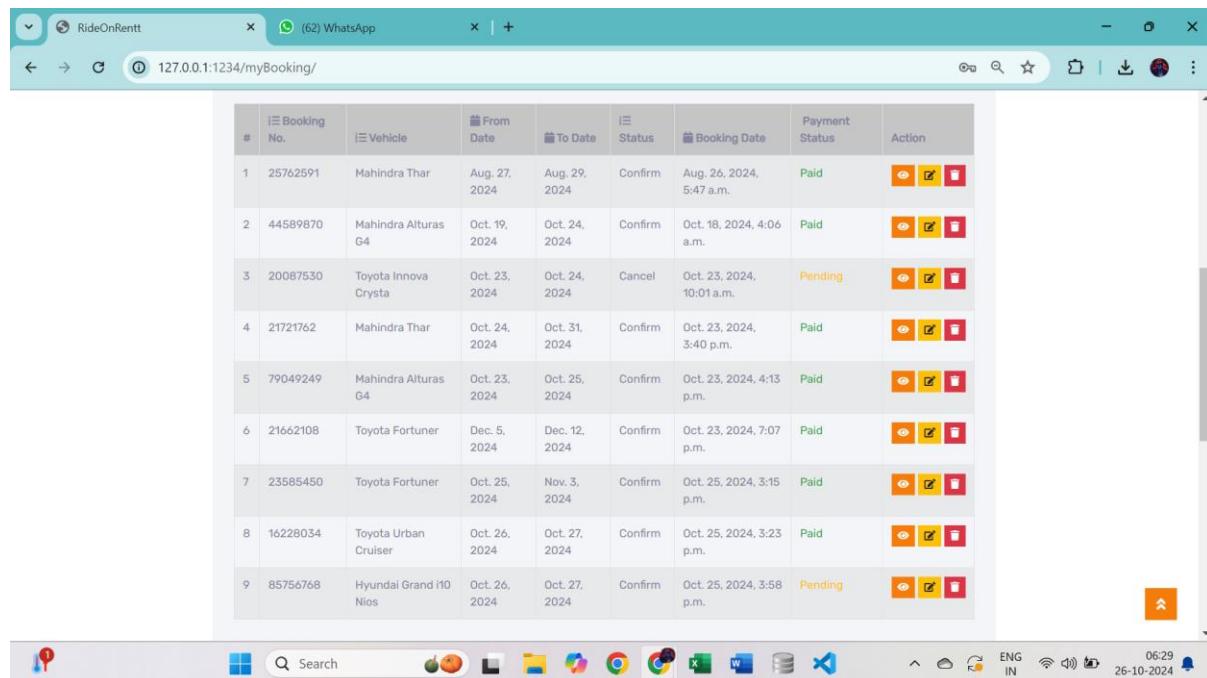
#	Full Name	Booking No.	From Date	To Date	Status	Posting Date	Action
1	Parth Patel	25762591	Aug. 27, 2024	Aug. 29, 2024	Confirm	Aug. 26, 2024, 5:47 a.m.	<button>View</button>
2	Rudra Vaddoriya	69250881	Oct. 6, 2024	Oct. 10, 2024	Not Update Yet	Sept. 29, 2024, 2:46 a.m.	<button>View</button>
3	Rudra Vaddoriya	42491661	Oct. 26, 2024	Oct. 27, 2024	Not Update Yet	Sept. 29, 2024, 2:49 a.m.	<button>View</button>
4	Rudra Vaddoriya	55842241	Sept. 24, 2024	Sept. 27, 2024	Updated	Sept. 29, 2024, 2:54 a.m.	<button>View</button>
5	Rudra Vaddoriya	36836025	Sept. 30, 2024	Oct. 2, 2024	Updated	Sept. 29, 2024, 2:56 a.m.	<button>View</button>

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The screenshot shows a Microsoft Edge browser window with two tabs both titled "RideOnRent". The URL in the address bar is "127.0.0.1:4344/changePassword". The main content area displays the "Update Password" form. It includes fields for "Current Password", "New Password", and "Confirm Password", each with a corresponding input box. A blue "Update" button is located at the bottom right of the form. On the left side, there is a dark sidebar titled "Admin Modules" with various options: Dashboard, Brands, Vehicles, Booking, Contact Query, Reg Users, Search, Between Date Report, Change Password, and Logout. At the top right of the main content area, there is a user profile icon labeled "Admin". The status bar at the bottom of the screen shows standard Windows icons for file operations, search, and system status.

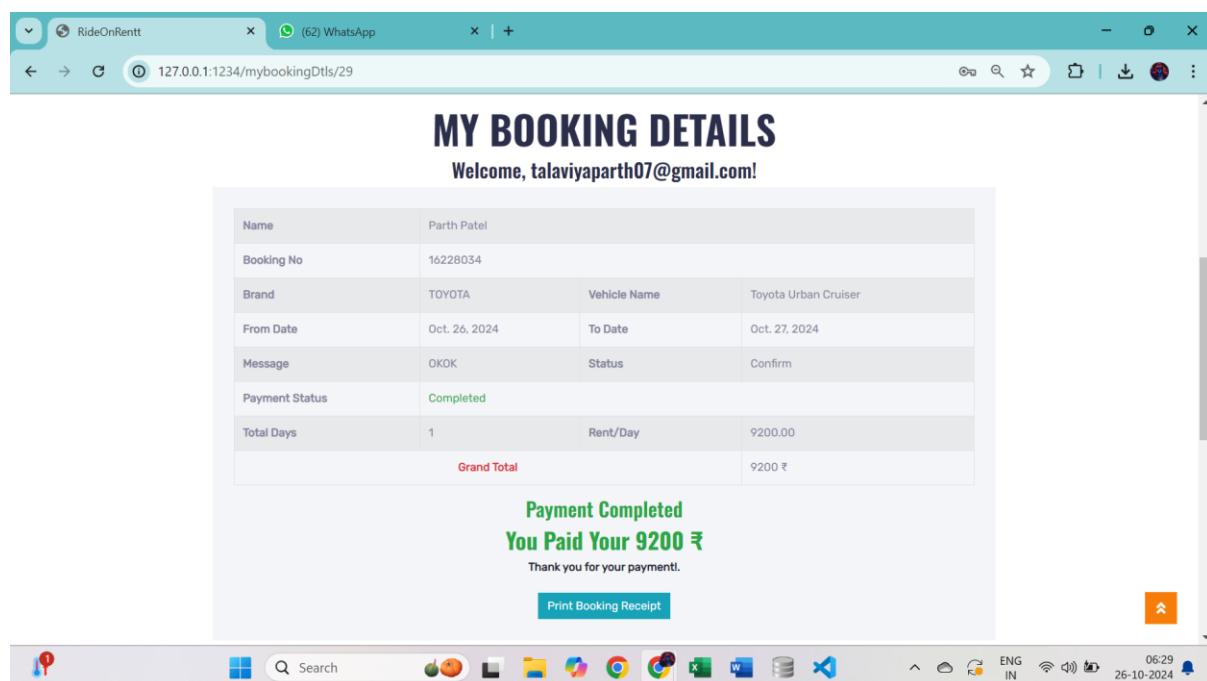
The screenshot shows a Microsoft Edge browser window with two tabs both titled "RideOnRent". The URL in the address bar is "127.0.0.1:4344". The main content area features a large banner image of a dark-colored car. Overlaid on the banner is the "RIDEONRENT" logo in orange and white, followed by the tagline "Best Cars In Your Location" in large white text. At the top of the page, there is a red header bar containing the phone number "+91 9824682710" and the email "rideonrent@gmail.com". Below the header, the navigation menu includes links for HOME, ABOUT, CAR LISTING, CONTACT, LOGIN/SIGNUP, and ADMIN LOGIN. The status bar at the bottom of the screen shows standard Windows icons for file operations, search, and system status.

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The screenshot shows a web browser window with the title 'RideOnRentt' and the URL '127.0.0.1:1234/myBooking/'. The page displays a table of booking records:

#	Booking No.	Vehicle	From Date	To Date	Status	Booking Date	Payment Status	Action
1	25762591	Mahindra Thar	Aug. 27, 2024	Aug. 29, 2024	Confirm	Aug. 26, 2024, 5:47 a.m.	Paid	<span>View</span> <span>Print</span> <span>Delete</span>
2	44589870	Mahindra Alturas G4	Oct. 19, 2024	Oct. 24, 2024	Confirm	Oct. 18, 2024, 4:06 a.m.	Paid	<span>View</span> <span>Print</span> <span>Delete</span>
3	20087530	Toyota Innova Crysta	Oct. 23, 2024	Oct. 24, 2024	Cancel	Oct. 23, 2024, 10:01 a.m.	Pending	<span>View</span> <span>Print</span> <span>Delete</span>
4	21721762	Mahindra Thar	Oct. 24, 2024	Oct. 31, 2024	Confirm	Oct. 23, 2024, 3:40 p.m.	Paid	<span>View</span> <span>Print</span> <span>Delete</span>
5	79049249	Mahindra Alturas G4	Oct. 23, 2024	Oct. 25, 2024	Confirm	Oct. 23, 2024, 4:13 p.m.	Paid	<span>View</span> <span>Print</span> <span>Delete</span>
6	21662108	Toyota Fortuner	Dec. 5, 2024	Dec. 12, 2024	Confirm	Oct. 23, 2024, 7:07 p.m.	Paid	<span>View</span> <span>Print</span> <span>Delete</span>
7	23585450	Toyota Fortuner	Oct. 25, 2024	Nov. 3, 2024	Confirm	Oct. 25, 2024, 3:15 p.m.	Paid	<span>View</span> <span>Print</span> <span>Delete</span>
8	16228034	Toyota Urban Cruiser	Oct. 26, 2024	Oct. 27, 2024	Confirm	Oct. 25, 2024, 3:23 p.m.	Paid	<span>View</span> <span>Print</span> <span>Delete</span>
9	85756768	Hyundai Grand i10 Nios	Oct. 26, 2024	Oct. 27, 2024	Confirm	Oct. 25, 2024, 3:58 p.m.	Pending	<span>View</span> <span>Print</span> <span>Delete</span>



The screenshot shows a web browser window with the title 'RideOnRentt' and the URL '127.0.0.1:1234/mybookingDtls/2s'. The page displays the following information:

## MY BOOKING DETAILS

Welcome, talaviyaparth07@gmail.com!

Name	Parth Patel		
Booking No	16228034		
Brand	TOYOTA	Vehicle Name	Toyota Urban Cruiser
From Date	Oct. 26, 2024	To Date	Oct. 27, 2024
Message	OKOK	Status	Confirm
Payment Status	Completed		
Total Days	1	Rent/Day	9200.00
Grand Total		9200 ₹	

**Payment Completed**  
**You Paid Your 9200 ₹**

Thank you for your payment.

[Print Booking Receipt](#)

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The screenshot shows a web browser window titled "RideOnRent" with the URL "127.0.0.1:1234/mybookingDtls/31". The main content is titled "MY BOOKING DETAILS" and welcomes the user "talaviyaparth07@gmail.com!". Below this is a table summarizing the booking details:

Name	Parth Patel		
Booking No	85756768		
Brand	Hyundai	Vehicle Name	Hyundai Grand i10 Nios
From Date	Oct. 26, 2024	To Date	Oct. 27, 2024
Message	okk	Status	Confirm
Payment Status	Pending		
Total Days	1	Rent/Day	3700.00
Grand Total		3700 ₹	

Below the table, there are two buttons: "Pay Now" (orange) and "Print Booking Receipt" (blue).

The screenshot shows a web browser window titled "RideOnRent" with the URL "127.0.0.1:1234/fake-payment/31". The main content is titled "Simulated Payment for Booking" and displays the same booking details as the previous screenshot.

Below the booking details, there is a section titled "Select Payment Method" with three options:

- Pay by Card
- Pay via QR Code
- Pay Cash on Delivery

Under "Card Payment Details", there are fields for Cardholder Name (placeholder "Enter your name"), Card Number (placeholder "XXXX-XXXX-XXXX-XXXX"), Expiry Date (placeholder "MM/YY"), and CVV (placeholder "CVV").

At the bottom are two buttons: "Proceed with Payment" (orange) and "Back to Booking" (blue).

Near Nagdev Kalyan Mandir, Near Sanand Cross Roads, Sarkhej-Gandhinagar  
Highway Ahmedabad – 382210 Ph. No.: 9099063417

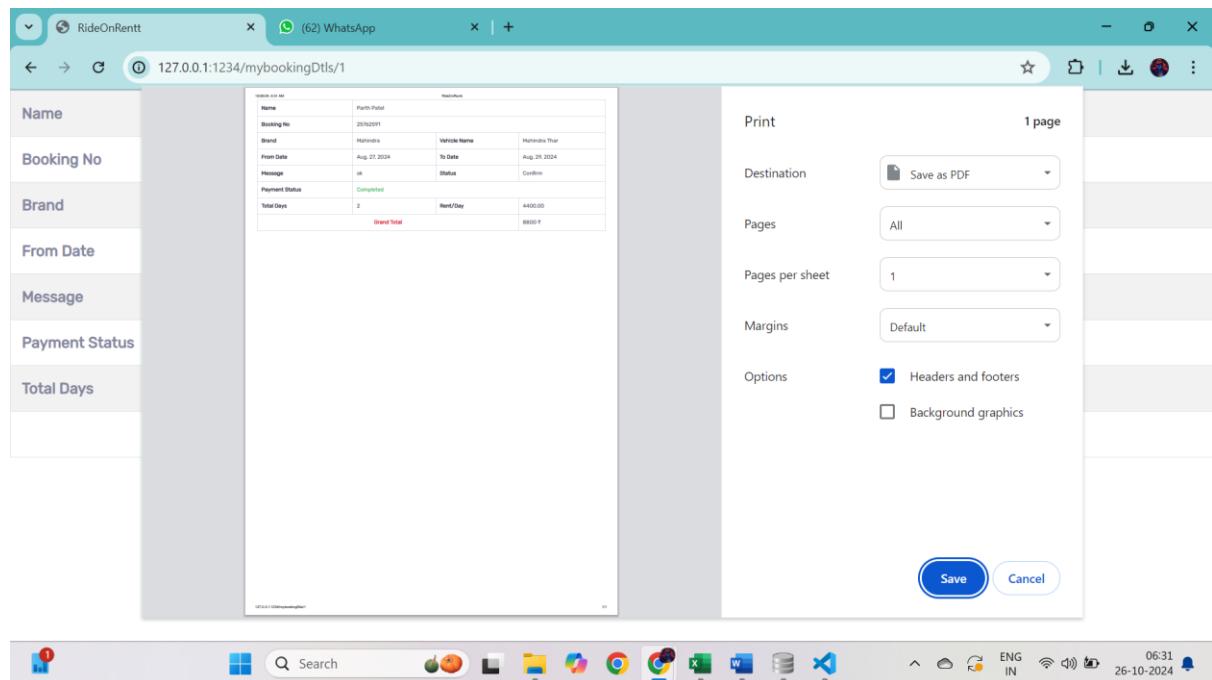
The screenshot shows a web browser window titled "Simulated Payment for Booking". The page displays booking details for Parth Patel, a Hyundai Grand i10 Nios from Oct. 26, 2024, to Oct. 27, 2024, at a rate of 3700.00 ₹ per day, totaling 3700.00 ₹. Below this, a "Select Payment Method" section offers three options: Pay by Card (radio button), Pay via QR Code (selected radio button), and Pay Cash on Delivery (radio button). A QR code is provided for scanning. At the bottom are "Proceed with Payment" and "Back to Booking" buttons.

This screenshot is identical to the one above, but it includes a message at the bottom stating "Thank you for selecting Cash on Delivery!" indicating the payment method has been chosen.

The footer section includes:

- GET IN TOUCH**: Address: Ahmedabad, India; Phone: +91 9824682790; Email: rideonrent@gmail.com
- USEFUL LINKS**: Privacy Policy, Terms & Conditions, New Member Registration
- CAR GALLERY**: A small image gallery showing various cars.

Near Nagdev Kalyan Mandir, Near Sanand Cross Roads, Sarkhej-Gandhinagar  
Highway Ahmedabad – 382210 Ph. No.: 9099063417

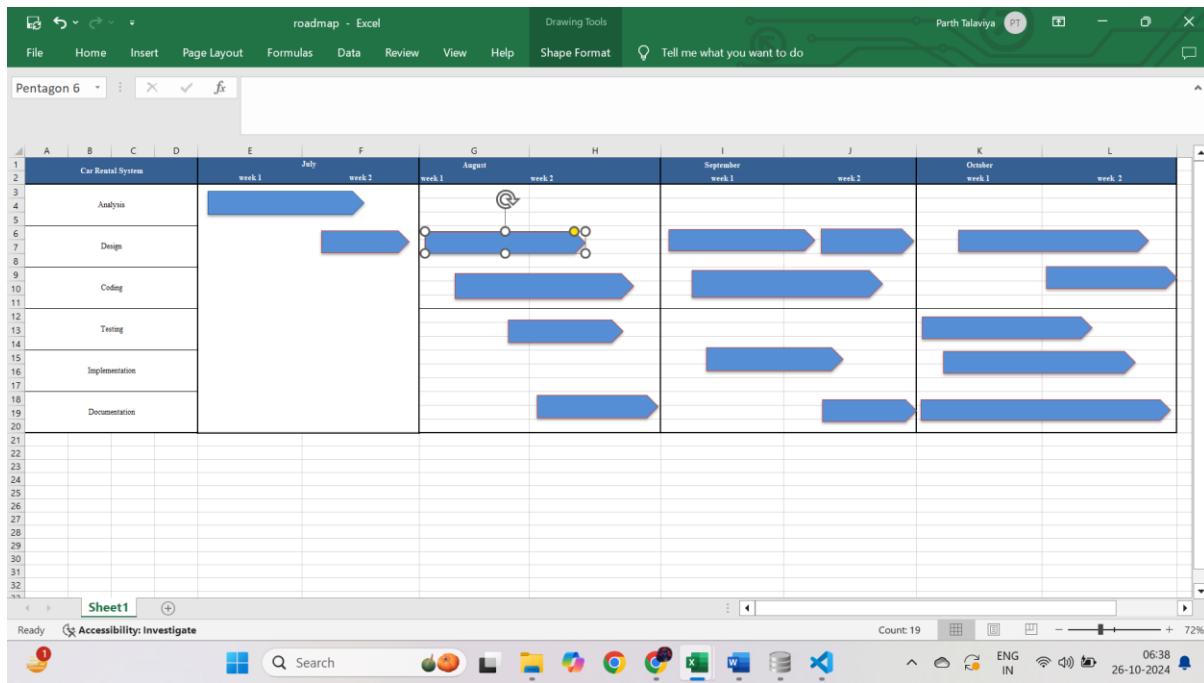


## AGILE DOCUMENTATION

### 5.1 Agile Project Charter

Project Charter	
Project Charter	Details
Project title	Car Rental System
Expected start date	01-07-2024
Expected end date	25-10-2024
Project manager	Dr. Jignesh Doshi
Stakeholder	L J Institute of Computer Application
Project Champion	Dr. Jignesh Doshi
Project Sponsor	L J Institute of Computer Application
Project overview	
Project Mission	The mission of the Car Rental System is to provide a user-friendly, efficient, and secure online platform for renting vehicles. This platform will connect customers with a wide variety of rental vehicles, enabling them to conveniently search, reserve, and pay for cars online. Through seamless navigation, real-time availability, and transparent booking processes.
Project Vision	Our vision for the Car Rental System is to create a seamless, reliable platform that allows customers to quickly and conveniently find and rent a wide variety of vehicles suited to their needs. We aim to build a trusted service that leverages smart technology to provide real-time availability, personalized booking options, and a safe rental experience across multiple locations, making car rentals accessible and dependable for travelers everywhere.
Project Scope	The project scope of the Car Rental System encompasses developing an online platform that manages vehicle rentals, provides users with the ability to search and book available cars, and allows administrators to oversee fleet availability and manage bookings. The system will include features such as user registration, vehicle listings with detailed descriptions, real-time booking with date and availability validation, payment integration, and user profile management. Additionally, it will support administrative functions like vehicle management, booking management, and reporting to streamline operations. The goal is to deliver an intuitive, secure, and efficient car rental experience for both users and administrators.
Out of Scope	Out of scope for the Car Rental System is handling vehicle maintenance, insurance, Targeted User and Dealers, Secure Payment Service and detailed analytics.

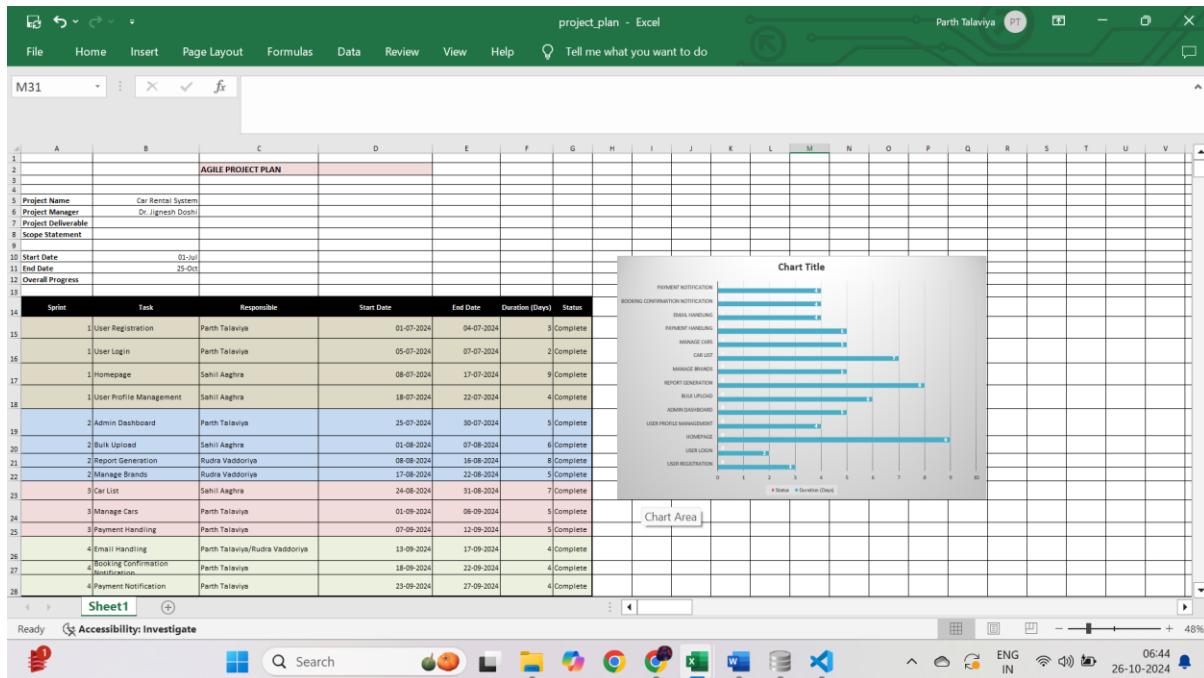
## **5.2 Agile Roadmap / Schedule**



**Link to redirect On Agile Documentation: -**

[https://d.docs.live.net/11e993d37672b7b3/Desktop/Car rental/roadmap.xlsx](https://d.docs.live.net/11e993d37672b7b3/Desktop/Car%20rental/roadmap.xlsx)

## 5.3 Agile Project Plan



Link to redirect On Agile Documentation: -

[https://d.docs.live.net/11e993d37672b7b3/Desktop/Car rental/project plan.xlsx](https://d.docs.live.net/11e993d37672b7b3/Desktop/Car%20rental/project%20plan.xlsx)

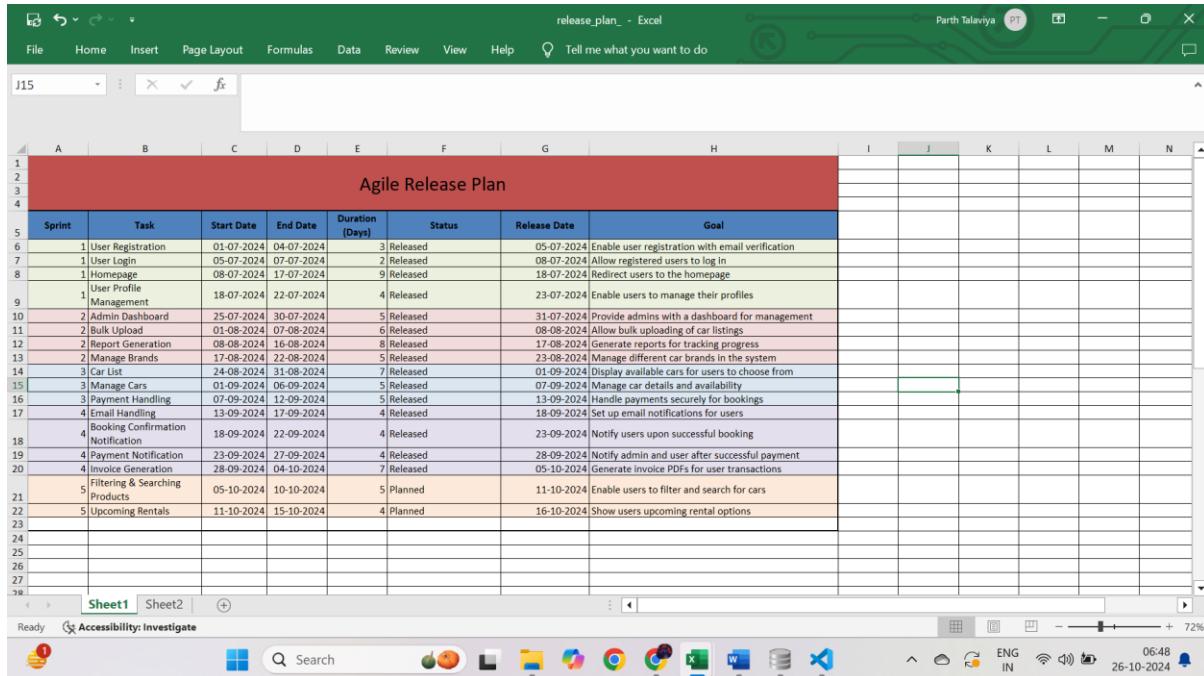
## 5.4 Agile User Story

User Story ID	As a <type of user>	I want to <perform some task>	So that I can <achieve some goal>
1	User	I want to create an account.	so that I can securely log in and manage my car rentals.
2	User	I want to browse available cars.	cars so that I can choose a vehicle that fits my needs.
3	User	I want to view detailed information about each car, including price, model, and seating capacity.	so that I can make an informed decision.
4	User	I want to be able to book a car for specific dates.	to ensure the car is available when I need it.
5	User	I want to receive a confirmation if my chosen dates are unavailable.	So that I can select different dates.
6	User	I want to pay securely online(Via Card/QR,ODD)	to complete my booking easily.
7	Admin	I want to add, update, or delete car details.	to ensure the available cars are up-to-date for users.
8	Admin	I want to view all bookings.	to manage and track car rentals efficiently.
9	User	I want to be able to update or cancel my booking.	if my plans change.
10	Admin	I want to contact customer support with any inquiries.	to get assistance with my bookings.
11	User	I want to update my profile details.	so that my information is accurate and up-to-date.
12	User	I want to view my booking history.	so that I can keep track of all past rentals.
13	User	I want to change my password.	to ensure my account stays secure.
14	User	I want to receive a confirmation email when I book a car.	so that I have a record of my reservation.
15	User	I want to register with an OTP sent to my phone.	to verify my identity and secure my account.
16	Admin	I want to receive an email notification whenever a user makes a payment.	so that I can promptly confirm and manage the booking process efficiently.

Link to redirect On Agile Documentation: -

[https://d.docs.live.net/11e993d37672b7b3/Desktop/Car rental/User Stories.xlsx](https://d.docs.live.net/11e993d37672b7b3/Desktop/Car%20rental/User%20Stories.xlsx)

## **5.5 Agile Release Plan**



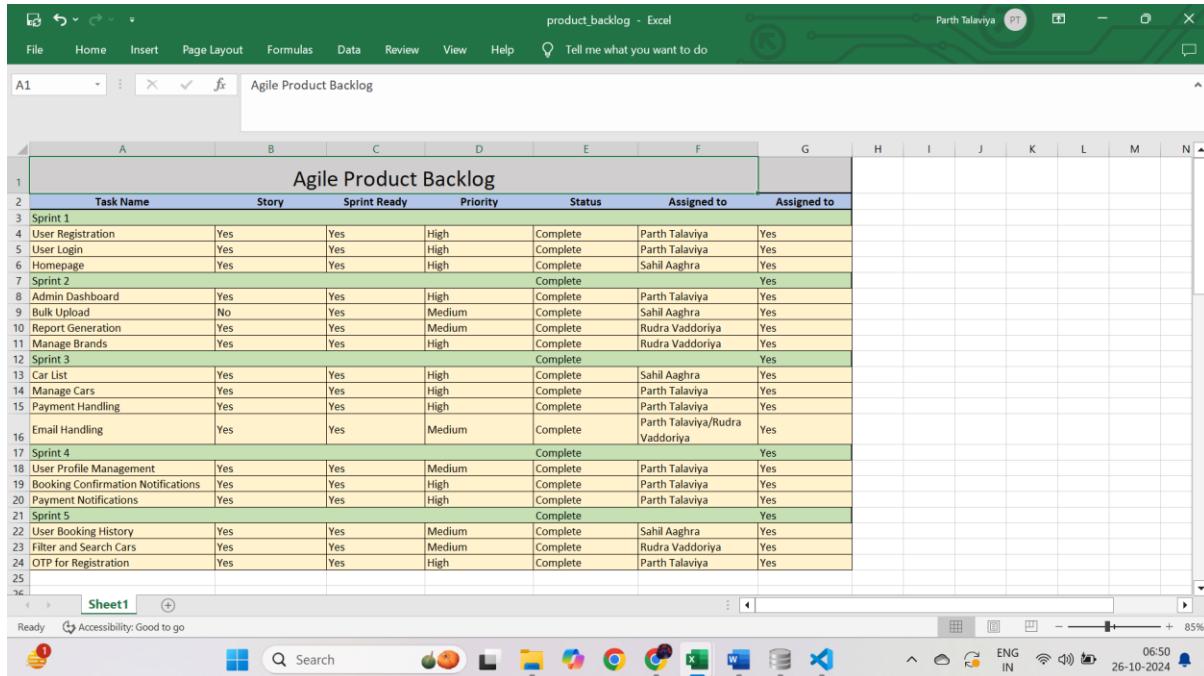
The screenshot shows an Excel spreadsheet titled "release\_plan\_ - Excel". The title bar includes the file name, a Parth Talaviya watermark, and standard menu options like File, Home, Insert, Page Layout, Formulas, Data, Review, View, Help, and a search bar. The main content is a table titled "Agile Release Plan" with the following data:

Sprint	Task	Start Date	End Date	Duration (Days)	Status	Release Date	Goal
1	User Registration	01-07-2024	04-07-2024	3	Released	05-07-2024	Enable user registration with email verification
1	User Login	05-07-2024	07-07-2024	2	Released	08-07-2024	Allow registered users to log in
1	Homepage	08-07-2024	17-07-2024	9	Released	18-07-2024	Redirect users to the homepage
2	User Profile Management	18-07-2024	22-07-2024	4	Released	23-07-2024	Enable users to manage their profiles
2	Admin Dashboard	25-07-2024	30-07-2024	5	Released	31-07-2024	Provide admins with a dashboard for management
2	Bulk Upload	01-08-2024	07-08-2024	6	Released	08-08-2024	Allow bulk uploading of car listings
2	Report Generation	08-08-2024	16-08-2024	8	Released	17-08-2024	Generate reports for tracking progress
2	Manage Brands	17-08-2024	22-08-2024	5	Released	23-08-2024	Manage different car brands in the system
3	Car List	24-08-2024	31-08-2024	7	Released	01-09-2024	Display available cars for users to choose from
3	Manage Cars	01-09-2024	06-09-2024	5	Released	07-09-2024	Manage car details and availability
3	Payment Handling	07-09-2024	12-09-2024	5	Released	13-09-2024	Handle payments securely for bookings
4	Email Handling	13-09-2024	17-09-2024	4	Released	18-09-2024	Set up email notifications for users
4	Booking Confirmation Notifications	18-09-2024	22-09-2024	4	Released	23-09-2024	Notify users upon successful booking
4	Payment Notification	23-09-2024	27-09-2024	4	Released	28-09-2024	Notify admin and user after successful payment
4	Invoice Generation	28-09-2024	04-10-2024	7	Released	05-10-2024	Generate invoice PDFs for user transactions
5	Filtering & Searching Products	05-10-2024	10-10-2024	5	Planned	11-10-2024	Enable users to filter and search for cars
5	Upcoming Rentals	11-10-2024	15-10-2024	4	Planned	16-10-2024	Show users upcoming rental options

**Link to redirect On Agile Documentation: -**

**[https://d.docs.live.net/11e993d37672b7b3/Desktop/Car rental/release plan.xlsx](https://d.docs.live.net/11e993d37672b7b3/Desktop/Car%20rental/release%20plan.xlsx)**

## 5.6 Agile Sprint Backlog



The screenshot shows an Excel spreadsheet titled "product\_backlog - Excel". The spreadsheet contains a table titled "Agile Product Backlog" with columns: Task Name, Story, Sprint Ready, Priority, Status, Assigned to, and Assigned to. The table is organized into five sprints: Sprint 1, Sprint 2, Sprint 3, Sprint 4, and Sprint 5. The tasks listed include User Registration, User Login, Homepage, Admin Dashboard, Bulk Upload, Report Generation, Manage Brands, Car List, Manage Cars, Payment Handling, Email Handling, User Profile Management, Booking Confirmation Notifications, Payment Notifications, User Booking History, Filter and Search Cars, and OTP for Registration. The status column indicates whether each task is Complete or In Progress. The assigned to column lists team members: Parth Talaviya, Sahil Aaghra, Rudra Vaddoriya, and Parth Talaviya/Rudra Vaddoriya.

Agile Product Backlog						
	Task Name	Story	Sprint Ready	Priority	Status	Assigned to
3	Sprint 1					
4	User Registration	Yes	Yes	High	Complete	Parth Talaviya
5	User Login	Yes	Yes	High	Complete	Parth Talaviya
6	Homepage	Yes	Yes	High	Complete	Sahil Aaghra
7	Sprint 2				Complete	Yes
8	Admin Dashboard	Yes	Yes	High	Complete	Parth Talaviya
9	Bulk Upload	No	Yes	Medium	Complete	Sahil Aaghra
10	Report Generation	Yes	Yes	Medium	Complete	Rudra Vaddoriya
11	Manage Brands	Yes	Yes	High	Complete	Rudra Vaddoriya
12	Sprint 3				Complete	Yes
13	Car List	Yes	Yes	High	Complete	Sahil Aaghra
14	Manage Cars	Yes	Yes	High	Complete	Parth Talaviya
15	Payment Handling	Yes	Yes	High	Complete	Parth Talaviya
16	Email Handling	Yes	Yes	Medium	Complete	Parth Talaviya/Rudra Vaddoriya
17	Sprint 4				Complete	Yes
18	User Profile Management	Yes	Yes	Medium	Complete	Parth Talaviya
19	Booking Confirmation Notifications	Yes	Yes	High	Complete	Parth Talaviya
20	Payment Notifications	Yes	Yes	High	Complete	Parth Talaviya
21	Sprint 5				Complete	Yes
22	User Booking History	Yes	Yes	Medium	Complete	Sahil Aaghra
23	Filter and Search Cars	Yes	Yes	Medium	Complete	Rudra Vaddoriya
24	OTP for Registration	Yes	Yes	High	Complete	Parth Talaviya
25						

Link to redirect On Agile Documentation: -

[https://d.docs.live.net/11e993d37672b7b3/Desktop/Car rental/product backlog.xlsx](https://d.docs.live.net/11e993d37672b7b3/Desktop/Car%20rental/product%20backlog.xlsx)

## 5.7 Agile Test Plan

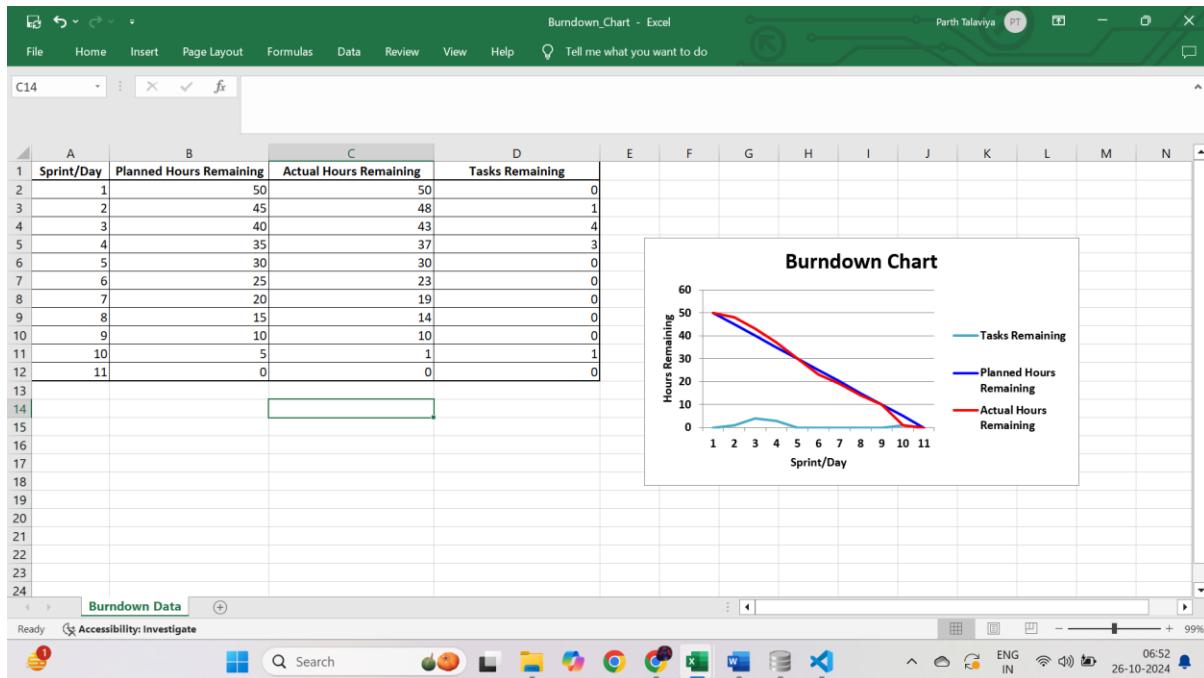
The screenshot shows an Excel spreadsheet titled "test\_plan - Excel". At the top, there is a header row with project details: Project Name (Car Rental System), Browser (Chrome, Microsoft Edge), Test Case ID, Version (130.0.6723.70, 130.0.2849.52), Written By (Parth Talaviya), Description (Testing of System), and Tested By (Parth Talaviya). Below this is a section titled "Agile Test Plan" with a table. The table has columns for Test #, Date, Action, Expected Results, Actual Results, and Pass?. The rows list various test cases, such as testing OTP delivery, database entry creation, email format, payment notifications, login functionality, registration, and car booking. Most test cases show a mismatch between expected and actual results, with the "Pass?" column containing mostly checked boxes.

Agile Test Plan					
Test #	Date	Action	Expected Results	Actual Results	Pass?
1		Test for first-time OTP delivery	User receives the OTP email on the first request	User did not receive the OTP on the first request	<input checked="" type="checkbox"/>
2		Test database entry creation on successful registration	Database entry is created upon successful registration	No entry created in the database	<input checked="" type="checkbox"/>
3		Check email format and content for OTP	Email format is correct, and content is clear	Email format correct but lacks detailed instructions	<input checked="" type="checkbox"/>
4		Test email notification after successful payment	User receives payment confirmation email	User did not receive payment notification email	<input type="checkbox"/>
5		Test login functionality after registration	User can log in successfully after registration	Login failed due to missing database entry	<input checked="" type="checkbox"/>
6		Verify registration after receiving OTP	User successfully registers and entry is created in the database	Registration failed, no entry created	<input checked="" type="checkbox"/>
7		Attempt to book a car that is already booked	User receives notification that the car is not available for the selected date	Notification shown as expected	<input checked="" type="checkbox"/>
8		Error handling for unavailable car	Error message displayed correctly	Not Being send	<input checked="" type="checkbox"/>

Link to redirect On Agile Documentation: -

[https://d.docs.live.net/11e993d37672b7b3/Desktop/Car rental/test plan.xlsx](https://d.docs.live.net/11e993d37672b7b3/Desktop/Car%20rental/test%20plan.xlsx)

## **5.8 Earned - value and burn charts**



**Link to redirect On Agile Documentation: -**

[https://d.docs.live.net/11e993d37672b7b3/Desktop/Car\\_rental/Burndown\\_Chart.xlsx](https://d.docs.live.net/11e993d37672b7b3/Desktop/Car_rental/Burndown_Chart.xlsx)

## **6.PROPOSED ENHANCEMENTS**

### **1. User Experience Improvements**

- Better UI: Redesign the interface for easier navigation and engagement with intuitive icons and layouts.
- Mobile Responsiveness: Ensure the app works well on mobile devices for accessibility on the go.

### **2. Advanced Search and Filter Options**

- Add more filtering and search options to help users find vehicles by price, brand, model, and availability.

### **3. Integration with Third-Party Services**

- Partner with mapping services (e.g., Google Maps) for location tracking and directions to pick-up points.
- Include more payment options like mobile wallets and cryptocurrencies for flexibility.

### **4. Real-Time Notifications**

- Create a notification system to update users on bookings, cancellations, and reminders.

### **5. Admin Analytics Dashboard**

- Develop a dashboard for admins to track user behaviour and vehicle performance.

### **6. Customer Feedback System**

- Set up a way to collect user feedback to improve the rental experience.

### **7. Enhanced Security Features**

- Implement two-factor authentication (2FA) for added account security during registration and login.

## **7.Conclusion**

In conclusion, the car rental system has been successfully developed to provide a user-friendly platform for booking and managing vehicle rentals. Key features such as user registration, vehicle management, payment processing, and notifications have been implemented to enhance the overall experience.

The proposed enhancements aim to improve usability, increase security, and provide valuable insights for administrators. By focusing on user needs and continuously improving the system, we can ensure that the car rental service remains competitive and meets the demands of customers.

Overall, this project not only fulfills the initial requirements but also sets the stage for future growth and improvement in the car rental industry