

A

Project Report On
Cab Management System

By:

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Semester – 6

Project Guide:

PROF.



Submitted To:

Geetanjali College of Computer
Science and Commerce Rajkot.

Academic Year:









2024-2025.

ACKNOWLEDGEMENT

I Am Happy to Submit My Idea Of " Cab Management System "Application In Saurashtra University, Rajkot For BCA Degree In Computer Branch.

We take this occasion to thank God, almighty for blessing us with his grace and taking our Endeavour to a successful culmination. We extend our sincere and heartfelt thanks to our esteemed guide, PROF. for providing us with the right guidance and advice at the crucial junctures and for showing us the right way. We would like to thank the other faculty members also, at this occasion. Last but not the least, we would like to thank friends for the support and encouragement they have given us during the course of our work.

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PROJECT PROFILE

Project Title	Cab ManagementSystem
Development Software	VS Code
Project Language	Python
Frontend Languages	HTML, CSS, JavaScript, Bootstrap
Backend Languages	Django and MySQL
Documentation Tool	Microsoft Word
Operating System	Windows
Academic Year	2024 – 2025
Developed By	Kayum H. Parmar
Submitted To	Geetanjali College

INTRODUCTION

Cab Management System:

The Cab Management System is a web-based application designed to facilitate efficient cab booking and management. The system serves three primary stakeholders: customers, drivers, and administrators. Customers can book rides, view booking history, and provide feedback. Drivers can manage ride assignments and update ride statuses. Administrators oversee the entire system, including user management, and analytics.

Admin Module :

The Admin Module is a core component of the Cab Booking & Management System, providing administrators with a comprehensive dashboard and a range of management functionalities. The admin panel is designed to facilitate efficient Cab operations through the following features:

- **Dashboard** – Displays key metrics, system statistics, and recent activities for quick insights. Admins can monitor overall system performance here.
- **Manage Categories** – Allows admins to add, update, and delete categories for service organization. It ensures structured data management.
- **Cab Management** – Enables admins to manage cab details, including adding, updating, and deleting records. This helps in efficient fleet management.
- **View Booking** – Displays booking details for reference, allowing admins to view all reservations. No modifications can be made on this page.
- **List of Clients** – Shows registered clients with options to update or delete their details. Admins can maintain an up-to-date client database.
- **Admin Profile** - Offers profile display first name, last name, username and e-mail according who is login in.
- **Log Out** - Provides a secure option to log out of the system, ensuring data security and preventing unauthorized access.

Driver Module:

- **Dashboard** – Provides an overview of assigned rides, earnings, and notifications. Drivers can track their performance and upcoming trips.
- **View Bookings** – Displays a list of assigned bookings with details like pickup, drop-off, and time. Drivers can stay updated on their schedules.
- **Update Status** – Allows drivers to update ride status (e.g., Accepted, Ongoing, Completed). Helps in real-time trip tracking and customer updates.
- **Profile Management** – Enables drivers to update their personal information. Ensures records are accurate and up to date.
- **Log Out** - Provides a secure option to log out of the system, ensuring data security and preventing unauthorized access.

User Module :

- **Home Page** – Serves as the main landing page, showcasing services, features, and an easy-to-use ride booking option.
- **About Page** – Provides information about the company, its mission, values, and services to help users understand the platform.
- **Book a Ride** – Allows users to request a cab by entering pickup and drop-off locations with fare estimation.
- **View Bookings** – Displays a list of current and past bookings with ride details and status updates.
- **Profile Management** – Users can update their personal details, contact information, and preferences for a personalized experience.
- **Log Out** - Provides a secure option to log out of the system, ensuring data security and preventing unauthorized access.
- **User Registration Page** – Allows new users to create an account by providing necessary details such as name, email, password, contact and other information.
- **Login Page** – A common login portal for users, drivers, and admins, enabling secure authentication based on their role in the system

SOFTWARE ENVIRONMENT

Technologies Used -

1. **Python (Django Framework)** - Backend development framework used for building the Hotel Management System with robust features and scalability.
2. **HTML** - Markup language used for structuring the content and layout of web pages in the system.
3. **CSS** - Styling language used for designing and creating a visually appealing and responsive interface.
4. **JavaScript** - Client-side scripting language used for dynamic interactions and enhancing user experience on the web pages.
5. **Bootstrap** - Frontend frameworks used for creating responsive and modern designs with minimal effort.
6. **Laragon** - Laragon is a fast, lightweight local development environment supporting PHP, Node.js, and Python for easy server setup and project management.
7. **MySQL** - Databases used for storing and managing hotel data, bookings, and payment information.
8. **Django** - Django is a high-level Python web framework that enables rapid development of secure, scalable, and maintainable web applications.

Technologies Break Down –

1. Python (Django Framework) -

Django is a high-level Python web framework that facilitates fast development of secure and maintainable web applications. It follows the Model-View-Template (MVT) architecture and provides built-in tools for database management, authentication, and routing, making it ideal for building the backend of the Hotel Management System.

2. HTML –

HTML (Hypertext Markup Language) is the standard language for creating the structure and content of web pages. It forms the skeleton of the Hotel Management System, organizing the content like text, images, links, and forms in a structured way for the user interface

3. CSS –

CSS (Cascading Style Sheets) is used to style the visual presentation of web pages. It controls aspects like layout, colours, fonts, and responsiveness, ensuring the Hotel Management System has an attractive and user-friendly interface across different devices.

4. JavaScript –

JavaScript is a programming language that enables dynamic behavior on web pages, such as form validation, interactive maps, and content updates without reloading the page. It enhances the Hotel Management System's interactivity, making the user experience smoother and more engaging.

5. Bootstrap –

Bootstrap is a popular open-source frontend framework that simplifies web design and development by providing pre-designed components like grids, buttons, and navigation bars. It helps create responsive, mobile-first web pages for the Hotel Management System with minimal effort.

6. Laragon –

Laragon is a fast and lightweight local development environment that simplifies web development by providing essential tools like Apache, Nginx, MySQL, and more in a single package. It supports multiple technologies such as **PHP**, **Node.js**, **Python**, and others, allowing developers to easily set up and manage local servers for testing and development.

7. MySQL –

MySQL is a relational database management system used to store and manage data in the Hotel Management System. It efficiently handles data related to bookings, customer details, room availability, and payments, ensuring reliable data storage and retrieval.

8. Django –

Django is a high-level Python web framework that enables rapid development of secure, scalable, and maintainable web applications. It simplifies backend development with built-in tools for database management, security, and user authentication, making it an ideal choice for building the Hotel Management System.

SYSTEM REQUIREMENT

Hardware Configuration:

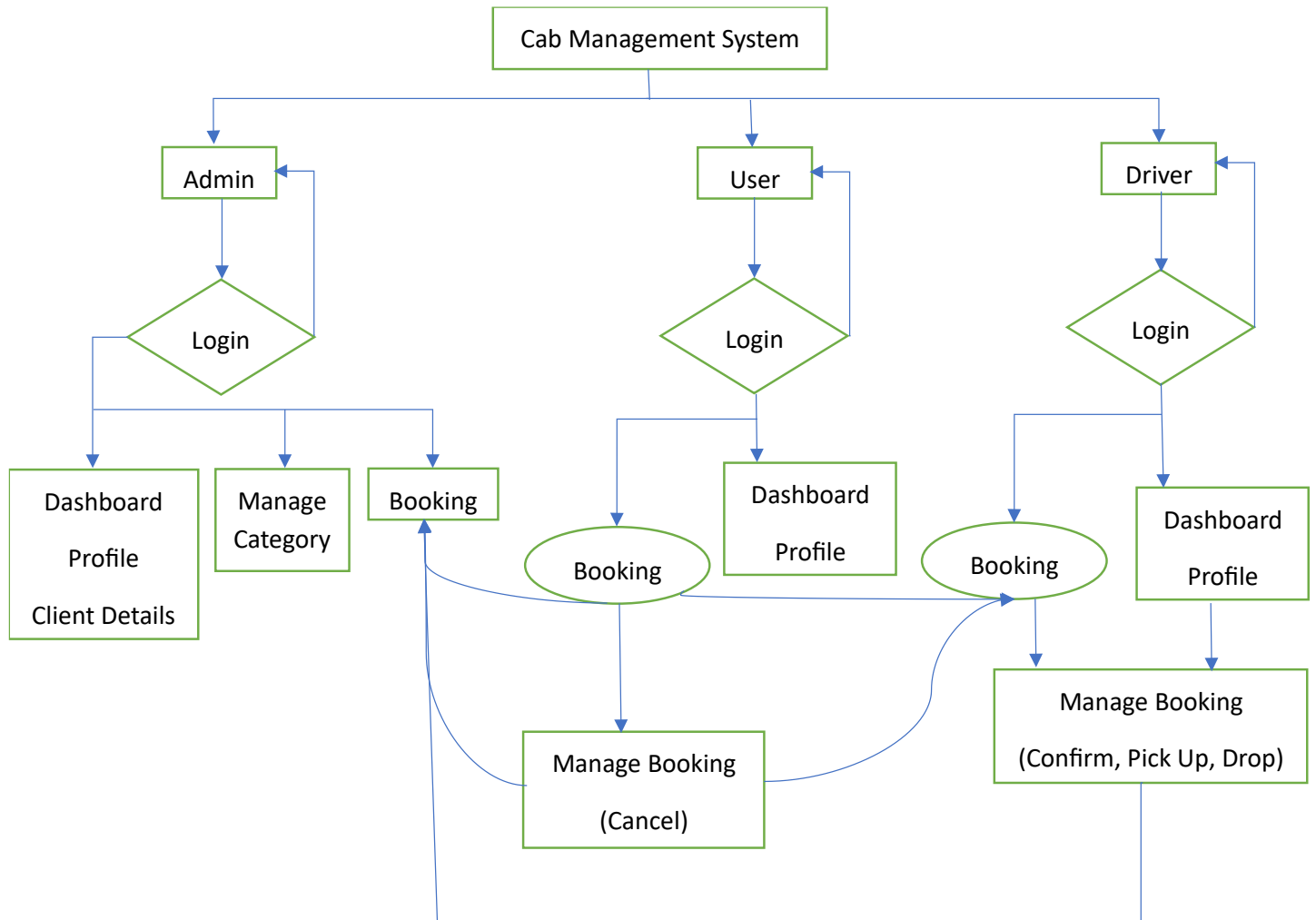
Processor	:	intel i3
RAM	:	4 RAM
Hard Disk Drive	:	20 GB
Monitor	:	15'6" HD Display
Display Type	:	VGA

Software Configuration:

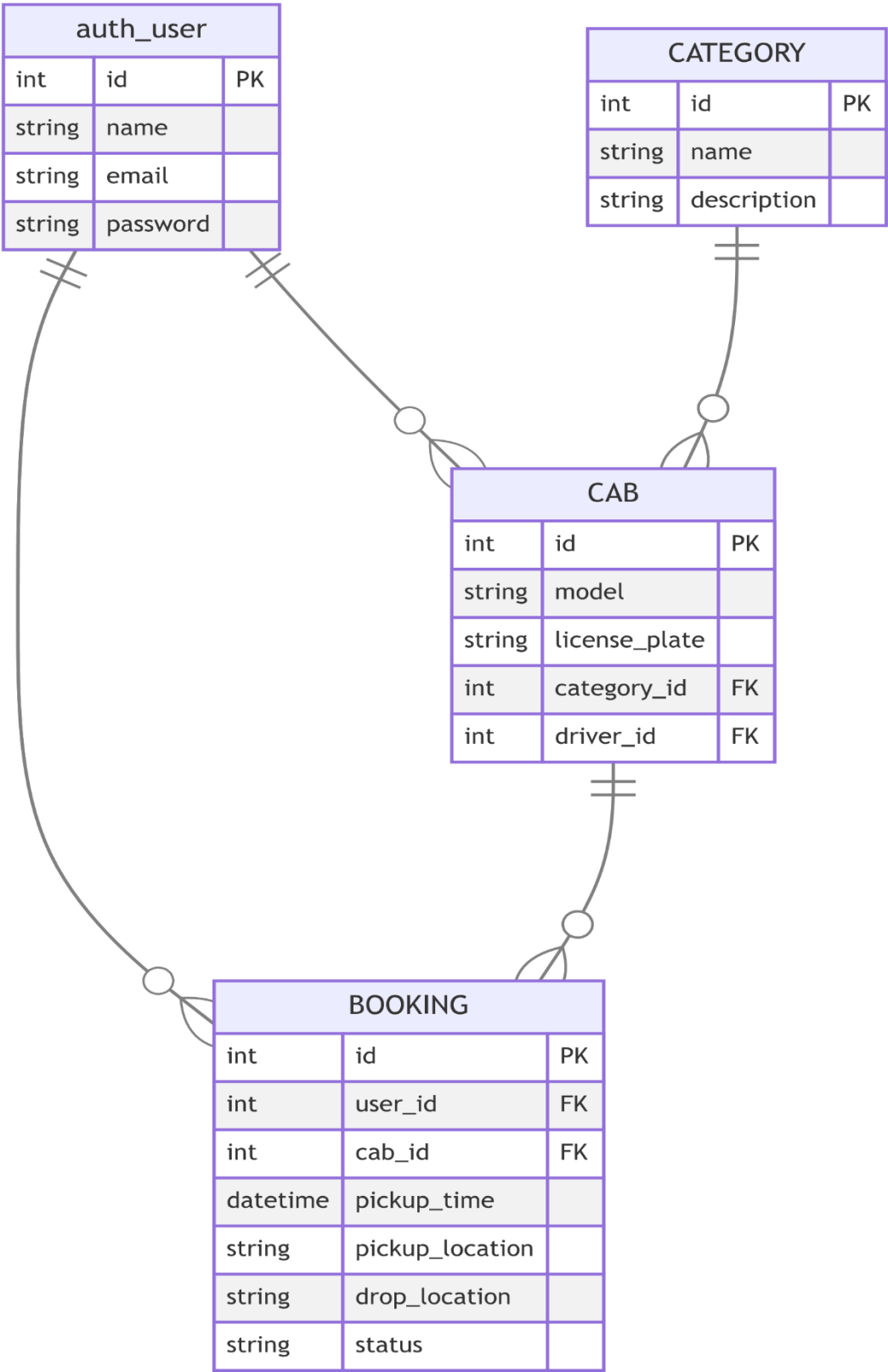
Operating System	:	Windows 11 , or any other
Web server	:	Apache
Web Browser	:	Chrome/Edge
Designing Tool	:	HTML
Server Side Scripting	:	Django
Client Side Scripting	:	MYSQL

DIAGRAMS

Data Flow Diagram –



ER Diagram –



DATA DICTIONARY

Auth_user:

#	Name	Type	Collation	Null	Default	Extra
1	id	int(11)		No	None	AUTO_INCREMENT
2	password	varchar(50)	utf8mb4_general_ci	Yes	None	
3	last_login	datetime(6)		No	NULL	
4	is_superuser	tinyint(1)		No	None	
5	username (FK)	varchar(50)	utf8mb4_general_ci	No	None	
6	first_name	varchar(50)	utf8mb4_general_ci	No	None	
7	last_name	varchar(50)	utf8mb4_general_ci	No	None	
8	email	varchar(50)	utf8mb4_general_ci	No	None	
9	is_staff	tinyint(1)		No	None	
10	is_active	tinyint(1)		No	None	
11	date_joined	datetime(6)		No	None	

Mainsite_userprofile:

#	Name	Type	Collation	Null	Default	Extra
1	id	int(11)		No	None	AUTO_INCREMENT
2	gender	varchar(50)	utf8mb4_general_ci	No	None	
3	address	varchar(50)	utf8mb4_general_ci	Yes	Null	
4	contact	varchar(11)	utf8mb4_general_ci	Yes	Null	
5	image_path	varchar(50)	utf8mb4_general_ci	Yes	Null	
6	user_id (FK)	int		Yes	Null	

mainsite_categories :

#	Name	Type	Collation	Null	Default	Extra
1	id	int(11)		No	None	AUTO_INCREMENT
2	Name(FK)	varchar(50)	utf8mb4_general_ci	No	None	
3	description	longtext	utf8mb4_general_ci	Yes	NULL	
4	status	varchar(50)		No	None	

mainsite_cab :

#	Name	Type	Collation	Null	Default	Extra
1	id	int(11)		No	None	AUTO_INCREMENT
2	cab_reg_no	varchar(50)	utf8mb4_general_ci	No	None	
3	cab_model	varchar(10)	utf8mb4_general_ci	No	None	
4	body_no	varchar(50)	utf8mb4_general_ci	No	None	
5	driver_contact	varchar(50)	utf8mb4_general_ci	No	None	
6	driver_address	longtext	utf8mb4_general_ci	No	None	
7	driver_image	varchar(50)	utf8mb4_general_ci	No	None	
8	Status	varchar(50)	utf8mb4_general_ci	No	None	
9	category_id (FK)	bigint		No	None	
10	driver_id (FK)	int		No	None	

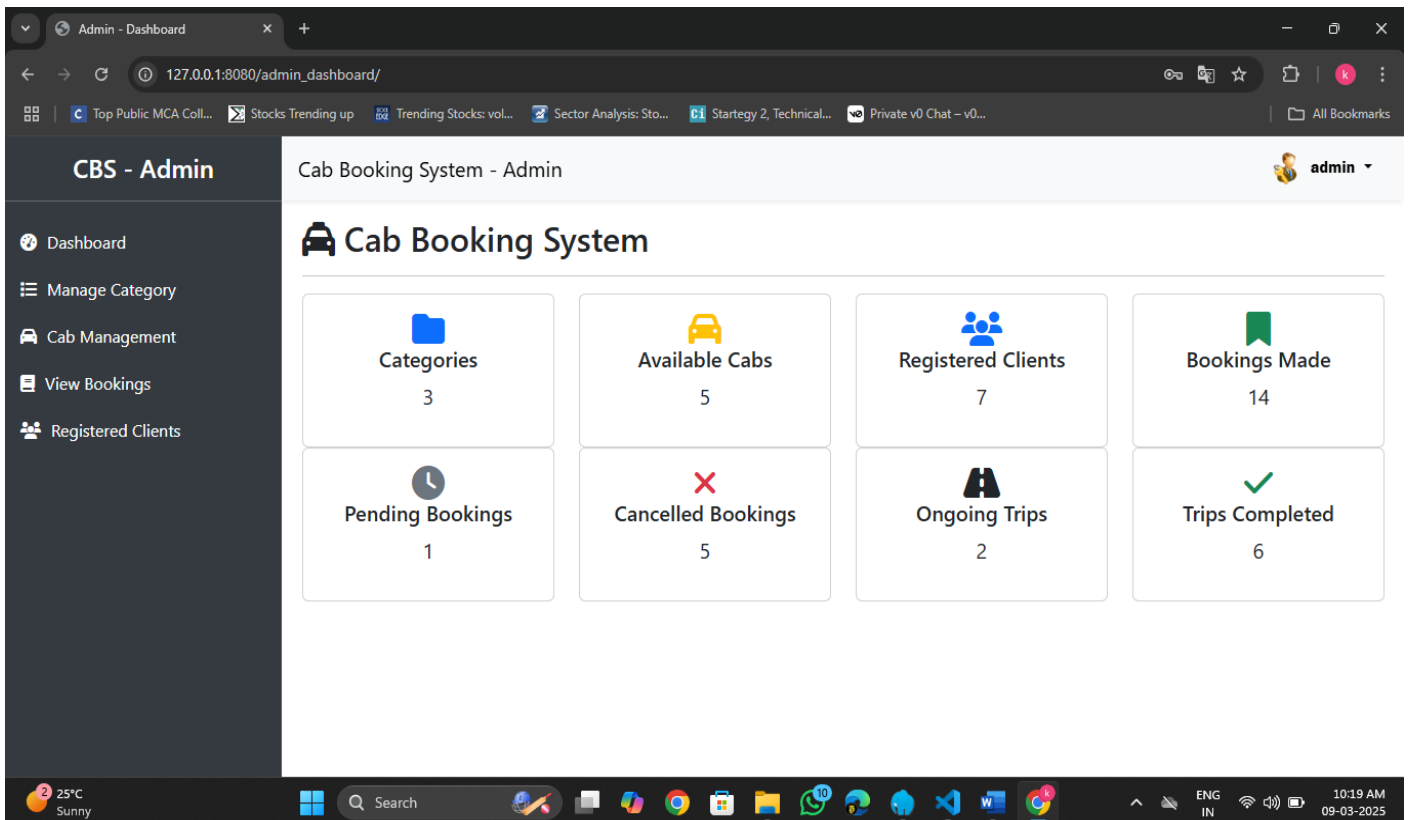
Mainsite_booking

#	Name	Type	Collation	Null	Default	Extra
1	id	int(11)		No	None	AUTO_INCREMENT
2	ref_code	varchar(50)	utf8mb4_general_ci	No	None	
3	pickup_zone	longtext	utf8mb4_general_ci	No	None	
4	drop_zone	longtext	utf8mb4_general_ci	No	None	
5	status	int		No	None	
6	booking_date	datetime(6)		No	None	
7	updated_date	datetime(6)		No	None	
8	cab_id (FK)	bigint		No	None	
9	client_id (FK)	bigint		No	None	

SCREEN SHOTS

Admin Panel:

Dashboard :



- in this page show the total of the
 - Categories ,
 - Cabs ,
 - Registered Client ,
 - Booking made
 - Panding Booking
 - Cancelled Bookings
 - Ongoing trips
 - Trips Completed

Manage Categories :

The screenshot shows the 'List of Categories' page in the CBS - Admin interface. The page has a sidebar with navigation links: Dashboard, Manage Category, Cab Management, View Bookings, and Registered Clients. The main content area is titled 'List of Categories' and includes a '+ Add New Category' button. Below the title, there is a search bar and a 'Show 10 entries' dropdown. The table below lists 3 categories:

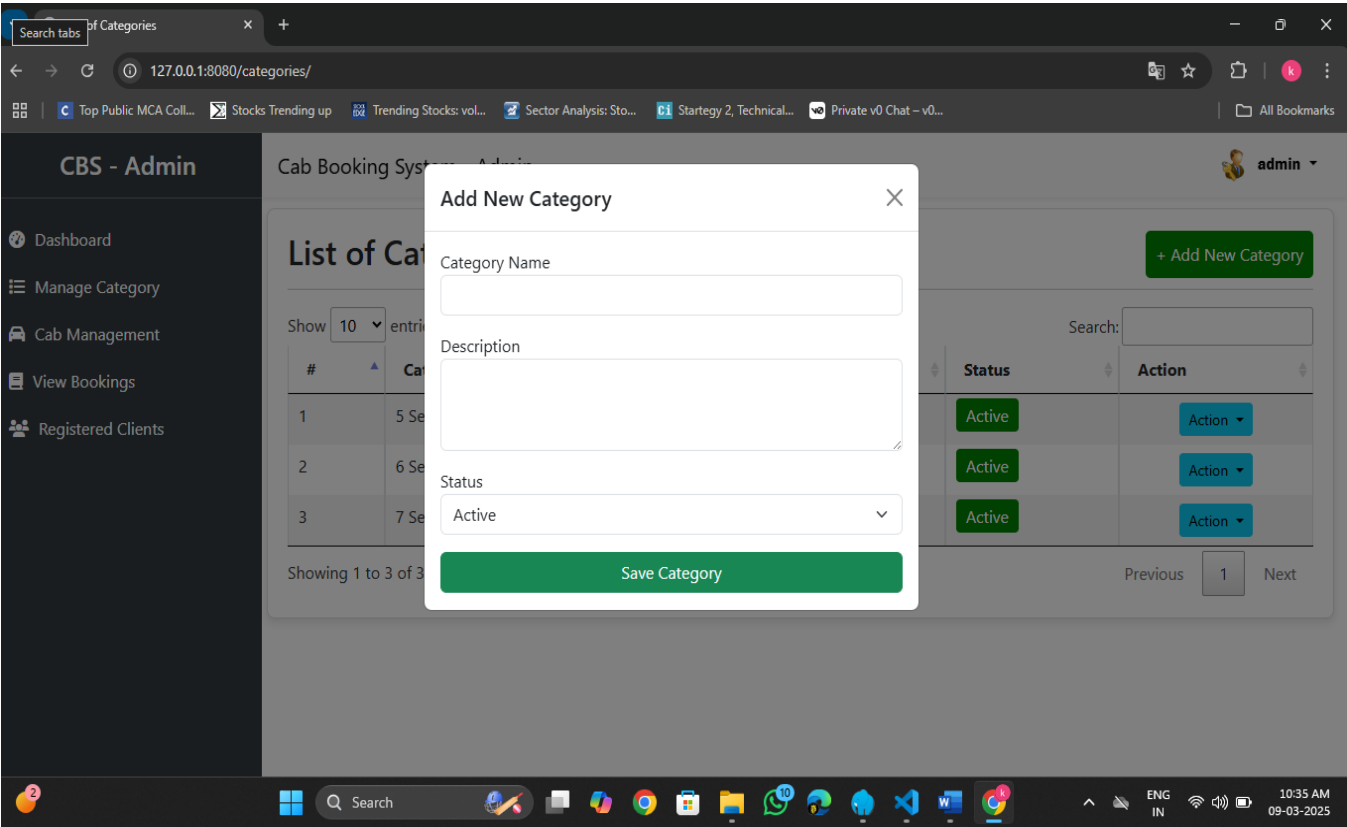
#	Category	Description	Status	Action
1	5 Seater	iuguygguygxcgxfcf	Active	Action
2	6 Seater	tjygyj	Active	Action
3	7 Seater	vvcfzdfddzcvbdfd	Active	Action

Showing 1 to 3 of 3 entries

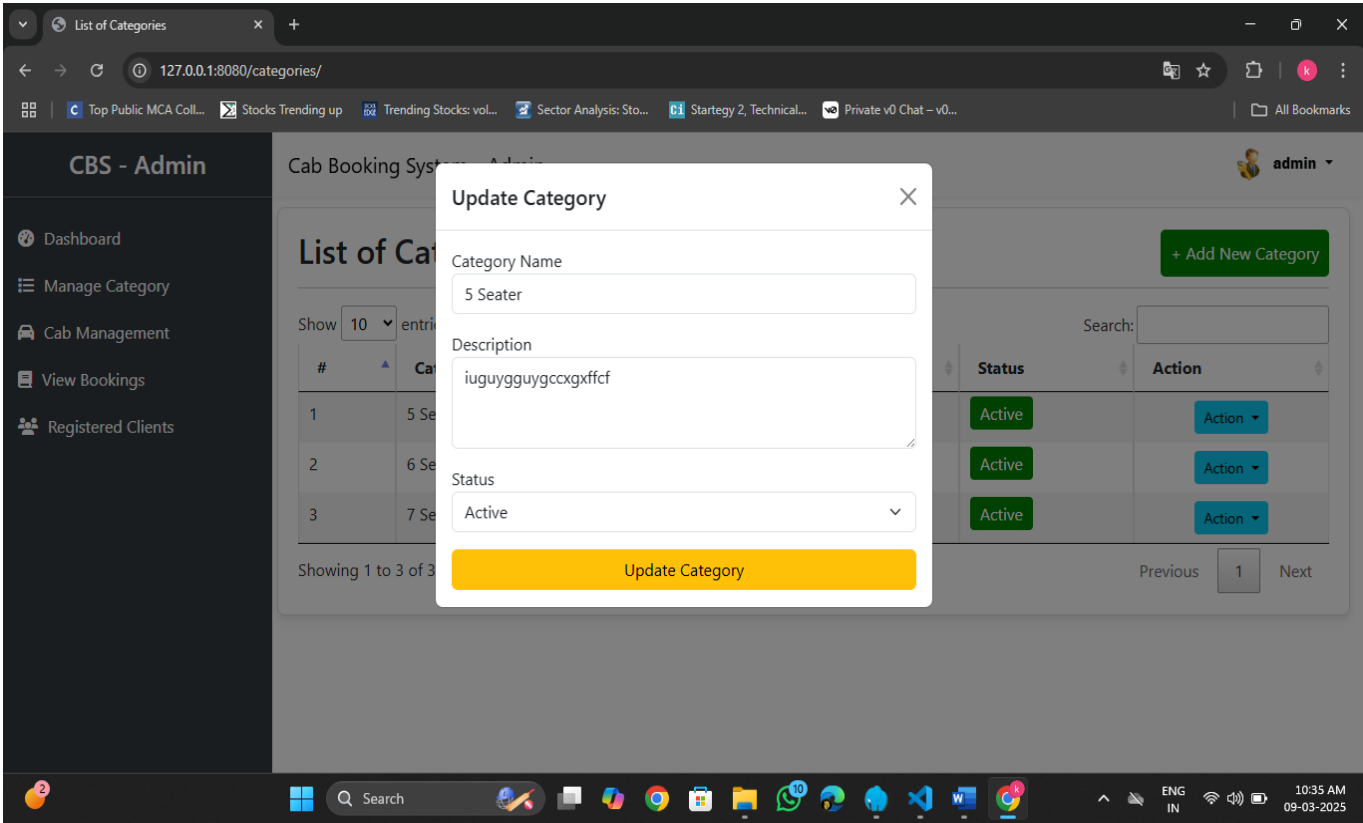
In this page manage the categories :

- This page is the List of Categories
- Also add the categories in the like 5 seater car
- Also update and delete the categories

Add Categories :



Update Categories :



Cab management :

The screenshot displays the 'CBS - Admin' web application. The left sidebar contains navigation links: Dashboard, Manage Category, Cab Management, View Bookings, and Registered Clients. The main content area is titled 'Cab Booking System - Admin' and shows a 'List of Cabs' table. A green '+ Add New Cab' button is located at the top right of the table. The table has seven columns: #, Driver Name, Category, Model, Details, Status, and Action. It lists five cabs, all with a status of 'Active'. The Windows taskbar at the bottom shows the time as 10:36 AM on 09-03-2025.

#	Driver Name	Category	Model	Details	Status	Action
1	Kayum Parmar	5 Seater	Volkswagen Passat	Car Plate No:GJ03LN4913 Body: Passat-7890	Active	Action
2	Tony W. Bryan	5 Seater	Hyundai i10	Car Plate No:ASTR0555 Body: iTen-1010	Active	Action
3	Allen S. Nichols	5 Seater	Honda Civic	Car Plate No:GJ03RR4947 Body: Civic-7781	Active	Action
4	George Williams	6 Seater	Ford Fusion	Car Plate No:ASTR0715 Body: Camry-440	Active	Action
5	John J. Ackles	7 Seater	Skoda Superb 162TSI	Car Plate No:ASTR0020 Body: Skoda-162TSI	Active	Action

In this page manage cab and driver :

- In this page list of the cab and their details
- Also add the cab in this page
- In the action admin can update the cad detail and driver details
- Also delete the cab

Add the Cab :

CBS - Admin

Dashboard


Manage Category

Cab Management

View Bookings

Registered Clients

Cab Booking System - Admin

 admin

Create New Cab

Category

Select Category

Plate #/Vehicle Reg #

Vehicle Model

Cab's Body #

Driver Name

Driver's Contact #

Driver's Address


Driver User Name

Driver's Account Password

Driver's Image

Choose File

No file chosen



Status

Active

Save

Cancel

- Here add the cab by the admin

Edit the cab :

CBS - Admin

Dashboard

Manage Category

Cab Management

View Bookings

Registered Clients

Cab Booking System - Admin

admin

Edit Cab

Category:

5 Seater

Cab Registration No:

GJ03LN4913

Cab Model:

Volkswagen Passat

Body No:

Passat-7890

Driver:

Kayum Parmar

Driver Contact:


9898678042

Driver Address:

Society Sheri, Kalana.kalana

Driver Image:

Choose FileNo file chosen



New Password (Leave blank to keep current password)

Status:

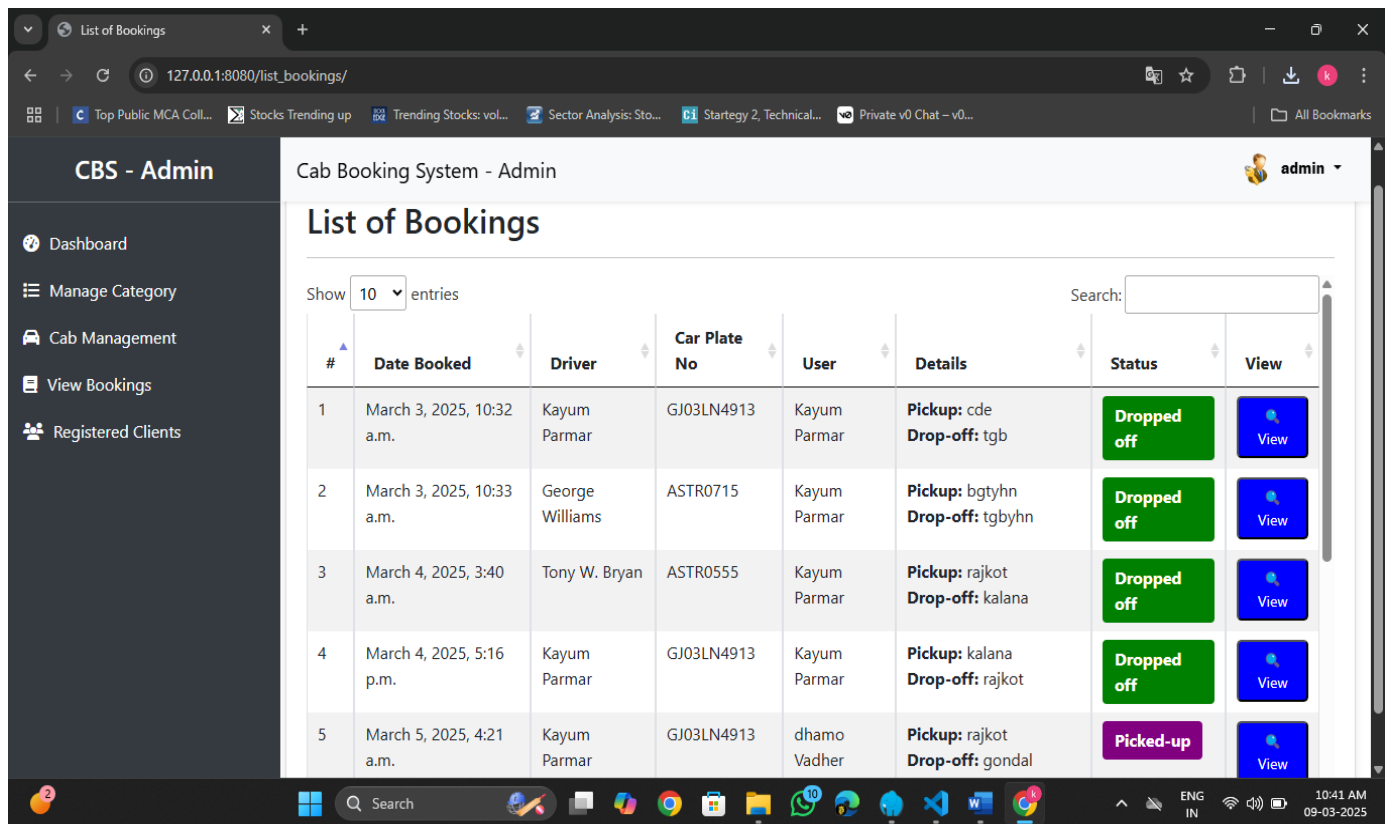
Active

Update Cab

Cancel

Here edit the cab details by the admin.

List of the booking :



The screenshot displays the 'List of Bookings' page in the CBS - Admin system. The page features a sidebar with navigation options: Dashboard, Manage Category, Cab Management, View Bookings, and Registered Clients. The main content area shows a table of bookings with columns for #, Date Booked, Driver, Car Plate No, User, Details, Status, and View. The table contains 5 entries, all with a status of 'Dropped off' except for the last one which is 'Picked-up'. Each entry has a 'View' button next to it. The interface also includes a search bar and a 'Show 10 entries' dropdown.

#	Date Booked	Driver	Car Plate No	User	Details	Status	View
1	March 3, 2025, 10:32 a.m.	Kayum Parmar	GJ03LN4913	Kayum Parmar	Pickup: cde Drop-off: tgb	Dropped off	View
2	March 3, 2025, 10:33 a.m.	George Williams	ASTR0715	Kayum Parmar	Pickup: bgtyhn Drop-off: tgbyhn	Dropped off	View
3	March 4, 2025, 3:40 a.m.	Tony W. Bryan	ASTR0555	Kayum Parmar	Pickup: rajkot Drop-off: kalana	Dropped off	View
4	March 4, 2025, 5:16 p.m.	Kayum Parmar	GJ03LN4913	Kayum Parmar	Pickup: kalana Drop-off: rajkot	Dropped off	View
5	March 5, 2025, 4:21 a.m.	Kayum Parmar	GJ03LN4913	dhamo Vadher	Pickup: rajkot Drop-off: gondal	Picked-up	View

- Here show the list of the booking booked by the user
- In this page show the user and driver booking details.
- Show the status user is pick up or dropped by the driver
- Click on the view to show the all the information about the driver and user.

View the information about the booking :

The screenshot displays the CBS Admin web application. On the left is a dark sidebar with navigation links: Dashboard, Manage Category, Cab Management, View Bookings, and Registered Clients. The main content area is titled 'Booking Details' and shows information for a booking with Ref. Code 518319. The status is 'Dropped off'. The details are organized into three sections: Client Details, Driver Details, and Cab Details. The Client and Driver details are identical, showing the name Kayum Parmar, contact number 9898678043, pickup zone cde, and drop-off zone tgb. The Cab Details section shows the cab body number as Passat-7890 and the vehicle category as 5 Seater. On the right side of the interface, there is a table with columns for Status and View. The first four rows show 'Dropped off' status with a 'View' button, and the fifth row shows 'Picked-up' status with a 'View' button. The top of the browser window shows the URL 127.0.0.1:8080/list_bookings/ and the system clock indicates 10:41 AM on 09-03-2025.

CBS - Admin

Booking Details

Ref. Code: 518319 Status: **Dropped off**

Client Details

Name: Kayum Parmar
Contact: 9898678043
Pickup Zone: cde
Drop-off Zone: tgb

Driver Details

Name: Kayum Parmar
Contact: 9898678042
Address: Society Sheri, Kalana.kalana

Cab Details

Cab Body No: Passat-7890
Vehicle Category: 5 Seater

Status	View
Dropped off	View
Dropped off	View
Dropped off	View
Dropped off	View
Picked-up	View

- Click on the view to show the all the information about the driver and user.

Registered clients:

The screenshot displays a web browser window with the address bar showing '127.0.0.1:8080/clients_list/'. The page title is 'List of Client'. The left sidebar contains a menu with the following items: Dashboard, Manage Category, Cab Management, View Bookings, and Registered Clients. The main content area is titled 'List of Client' and contains a table with the following data:

#	User Name	Address	Details	Action
1	Kayum Parmar	Society Sheri, Kalana.0000	Contact:9898678043 Email Id: kayumparmar10@gmail.com	Action
2	dhamo Vadher	Society Sheri, Kalana.	Contact:3265987412 Email Id: dhamo@gmail.com	Action
3	Vraj Dobariya	ramnagar shari no .1	Contact:9632587410 Email Id: vg123@gmail.com	Action
4	Vatsal Gajera	Society Sheri, Kalana.	Contact:9876543210 Email Id: vatsal123@gmail.com	Action
5	AB CD	Society Sheri, Kalana.	Contact:9873216540 Email Id: abcd@gmail.com	Action

The bottom of the screenshot shows a Windows taskbar with various application icons and a system clock indicating 10:42 AM on 09-03-2025.

- In this page show the list of the client
- In the click in the action button also update and delete the client
- Show the all details of the client

Update the client :

CBS - Admin

Dashboard


Manage Category

Cab Management

View Bookings

Registered Clients

Cab Booking System - Admin

 admin

Edit User

First Name

Kayum

Last Name

Parmar

Username

Kayum47

Gender

Male

Contact

9898678043

Address

Society Sheri, Kalana.0000

Email


kayumparmar10@gmail.com

New Password (Leave blank to keep current password)

Avatar

Choose File

No file chosen

 Preview

Update User

Cancel

- In this page edit the user by the admin

Admin profile :

The screenshot shows a web browser window displaying the 'User Profile' page of the 'CBS - Admin' system. The browser's address bar shows the URL '127.0.0.1:8080/profile/'. The page has a dark sidebar on the left with navigation links: 'Dashboard', 'Manage Category', 'Cab Management', 'View Bookings', and 'Registered Clients'. The main content area is titled 'Cab Booking System - Admin' and features a user profile form. The form includes input fields for 'First Name' (containing 'hello'), 'Last Name' (containing 'hy'), 'Email' (containing 'admin123@gmail.com'), 'Username' (containing 'admin'), and 'Password'. Below the password field is a note: 'Leave this blank if you don't want to change the password.' At the bottom of the form is a green 'Update' button. The browser's taskbar at the bottom shows various application icons and the system clock indicating 10:43 AM on 09-03-2025.

First Name
hello

Last Name
hy

Email
admin123@gmail.com

Username
admin

Password

Leave this blank if you don't want to change the password.

Update

- This page is the admin profile
- Admin update their profile
- And also has the logout button

Driver panel :

Driver dashboard :

My Bookings

Show 10 entries

Search:

#	Date	User Name	Pickup	Drop-off	Status	View
1	March 8, 2025, 3:42 a.m.	AB CD	djfhysdf	sdfsd	Pending	View & Update

Showing 1 to 1 of 1 entries

Previous 1 Next

Copyright © CMS - Python 2025

12:32 PM 09-03-2025

- This is the driver dashboard
- This page show the cab booked by the user
- Driver also conforms the booking

Update the booking status :

The screenshot shows a web browser window with the address bar displaying '127.0.0.1:8080/booking/update/24/'. The page has a yellow header bar with 'CMS Home' on the left and a user profile 'allent23' on the right. The main content area is a white card with a light gray border. At the top of the card, it shows 'Ref. Code: 192323', 'Pickup Zone: djfhyrdf', and 'Drop-off Zone: sdfid'. To the right of these details is a 'Status: Pending' label and a blue 'Confirm Booking' button. Below this, there are three sections: 'Client Details' (Name: AB CD, Email: abcd@gmail.com, Contact: 9873216540), 'Driver Details' (Name: Allen S. Nichols, Contact: 7895410000, Address: 74 Frosty Lane), and 'Cab Details' (Cab Plate No: GJ03RR4947, Vehicle Category: 5 Seater, Vehicle Model: Honda Civic). At the bottom left of the card is a 'Back to Bookings' button. The footer of the page shows 'Copyright © CMS - Python 2025' and 'Developed By: Kayum Pannar'. The Windows taskbar at the bottom displays various application icons and the system clock showing 12:34 PM on 09-03-2025.

Ref. Code: 192323
Pickup Zone: djfhyrdf
Drop-off Zone: sdfid

Status: Pending

Confirm Booking

Client Details

Name: AB CD
Email: abcd@gmail.com
Contact: 9873216540

Driver Details

Name: Allen S. Nichols
Contact: 7895410000
Address: 74 Frosty Lane

Cab Details

Cab Plate No: GJ03RR4947
Vehicle Category: 5 Seater
Vehicle Model: Honda Civic

Back to Bookings

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Developed By: Kayum Pannar

- In this page driver conform the booking in this page by the driver
- Also update the pick up the user and user drop off by the driver and also show booking pick up location and drop location

Driver profile :

Manage Account

127.0.0.1:8080/manage_driver_account/

CMS Home allent23

Manage Account Details/Credentials

Account Details

First Name
Allen S. Nichols

Contact #
7895410000

Address
74 Frosty Lane

Avatar
Choose File No file chosen

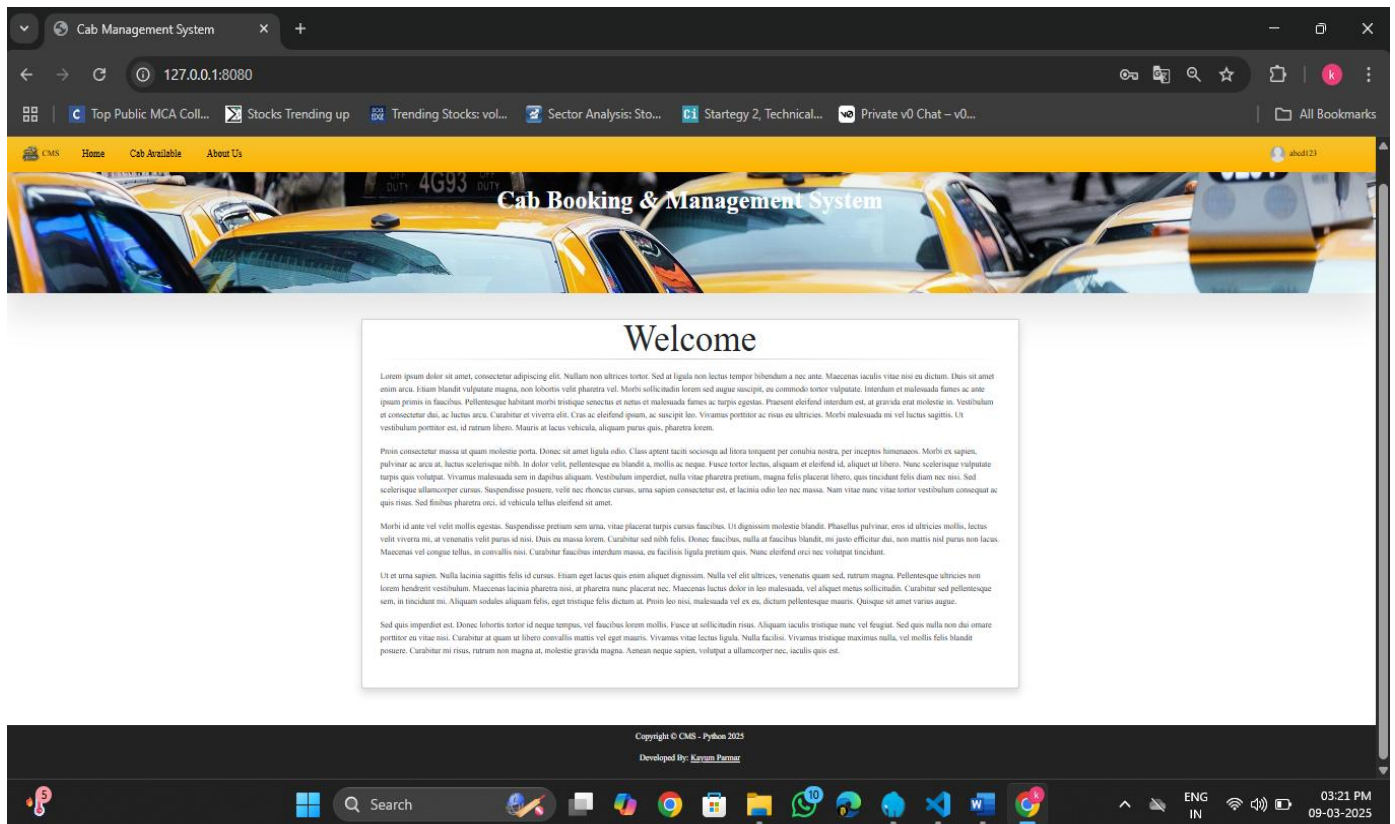
Update Details

Copyright © CMS - Python 2023
Developed By: Kayam Parmar

- Driver update the their profile
 - name
 - contact
 - email
 - address
 - profile photo

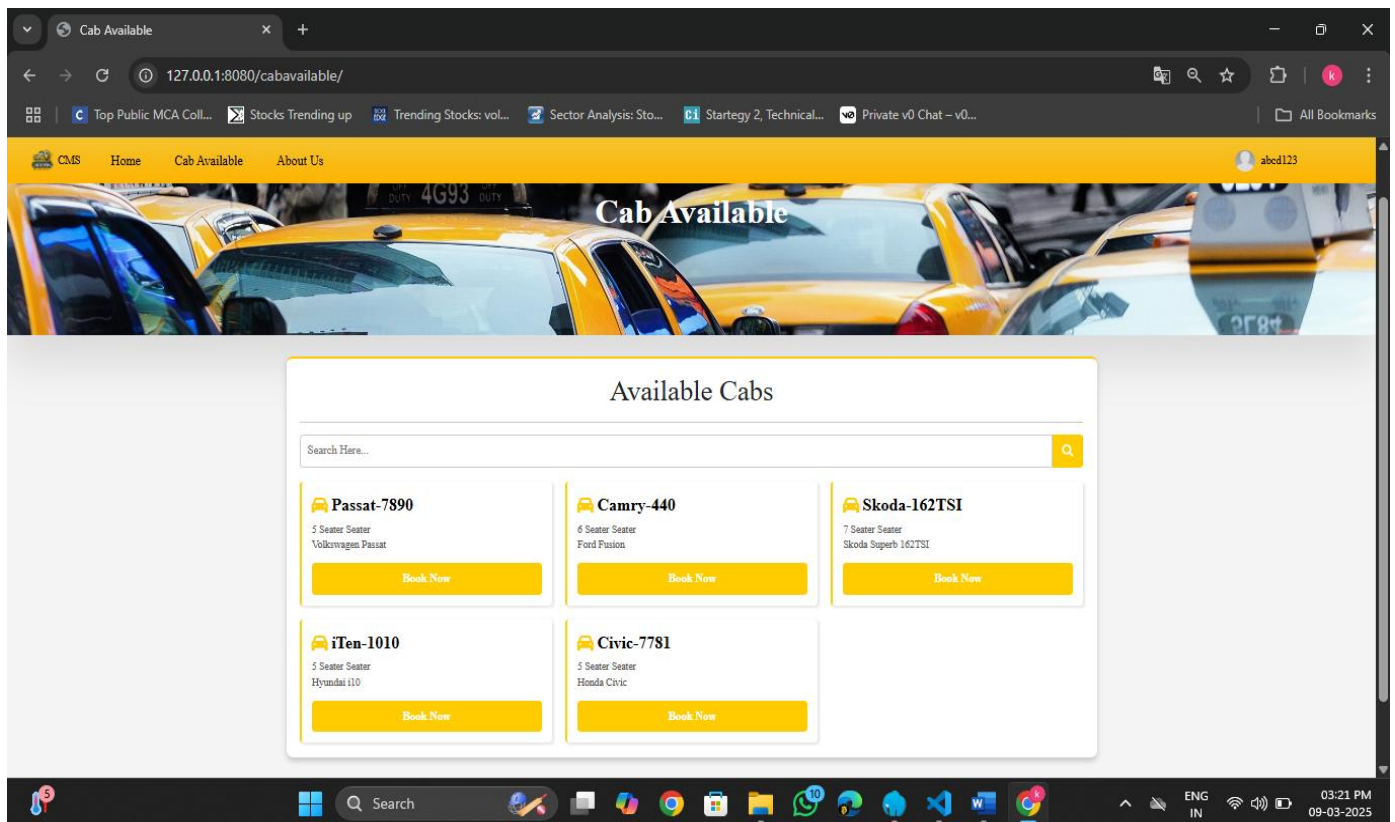
user model:

Home page :



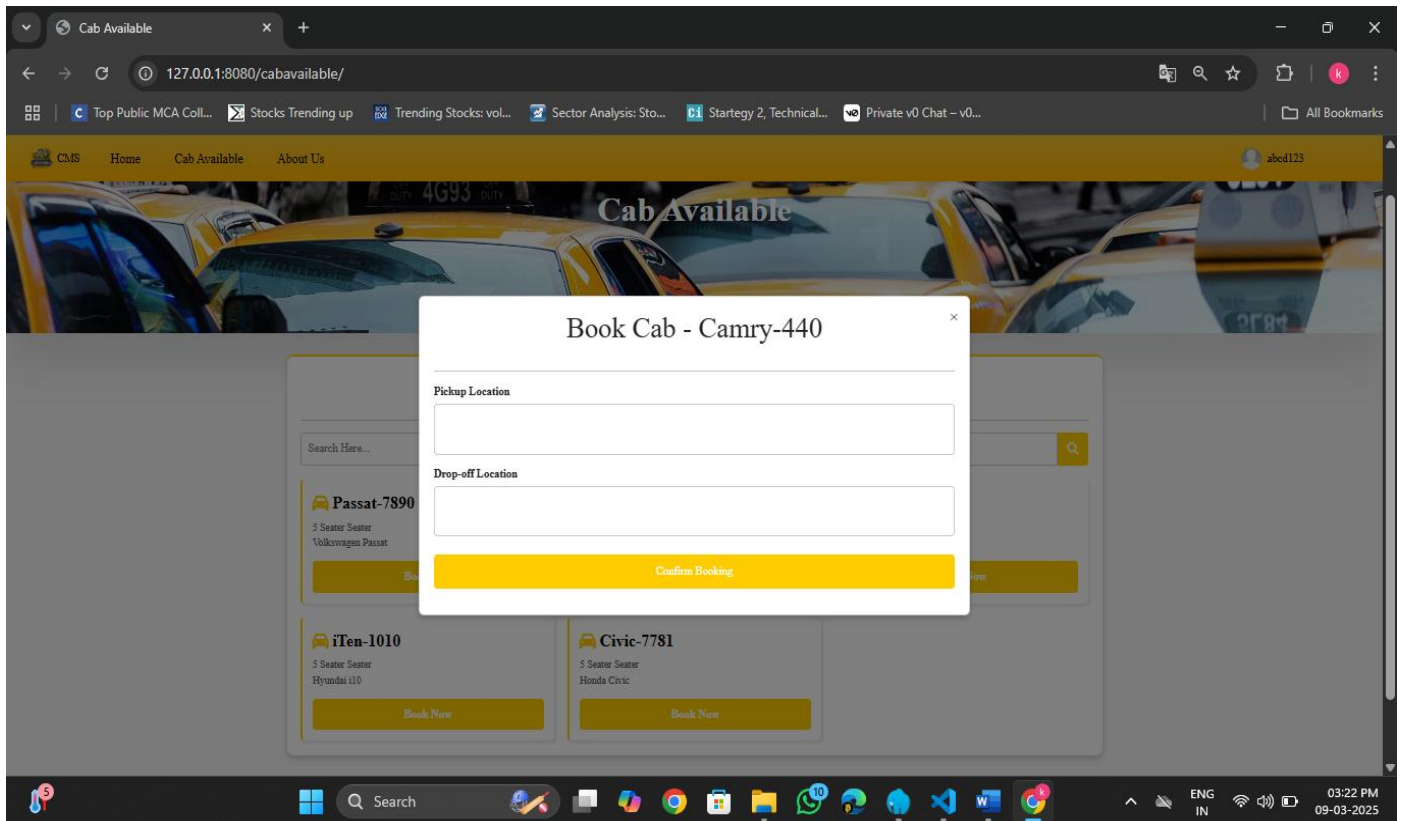
- This home page.

Booking page :



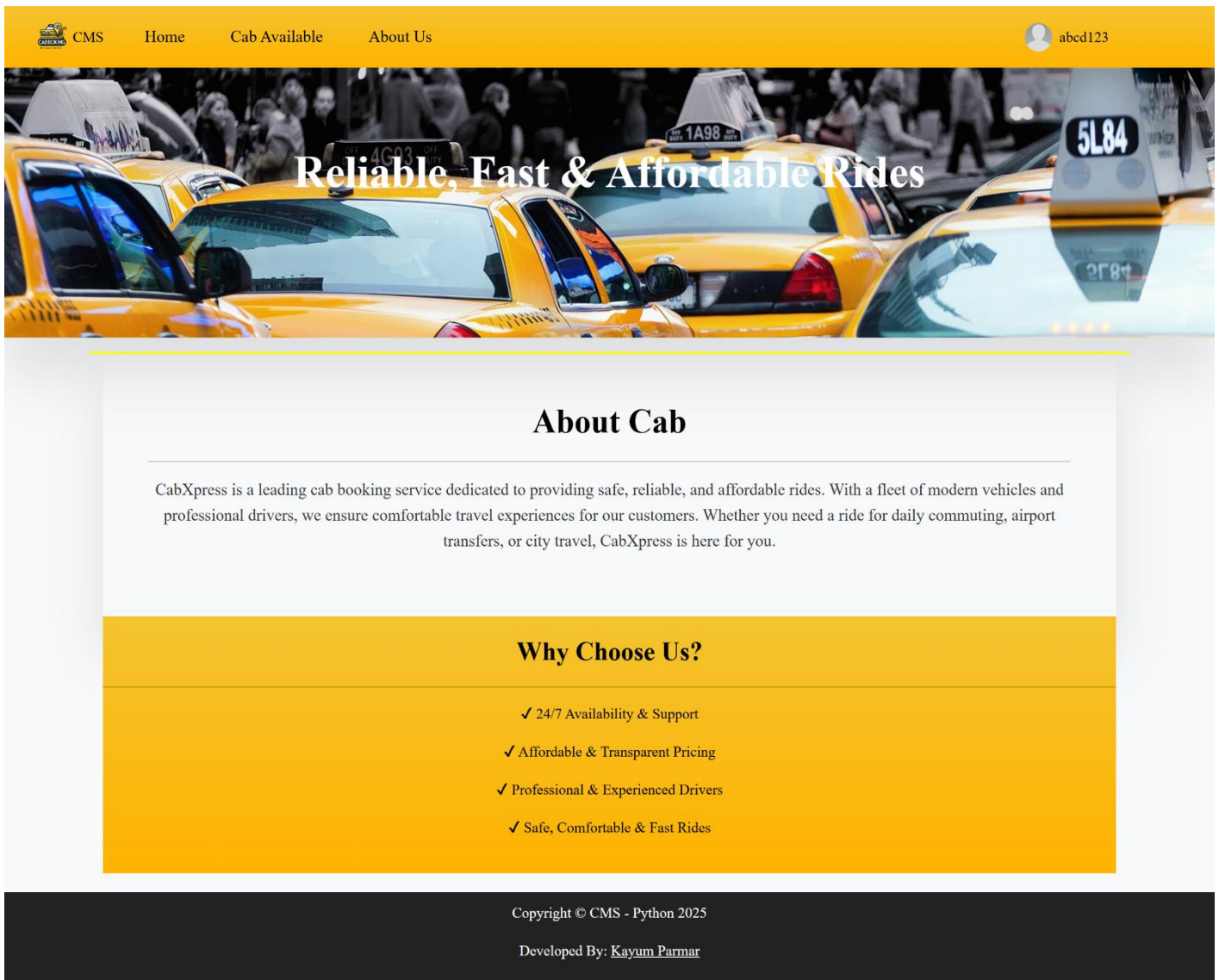
- When user is the login then the user will book available cab
- Click on the book cab button .

Booking form :



- When user will click on the book cab button then
- Show the booking form
- User enter their pickup location and drop location
- Then click the conform booking

About us page:



User booking :

My Bookings

127.0.0.1:8080/user_bookings/

CMS Home Cab Available About Us abcd123

My Bookings

Show 10 entries

Search:

#	Date	Driver	Car Plate	Pickup	Drop-off	Status	View
1	March 8, 2025, 3:42 a.m.	Allen S. Nichols	GJ03RR4947	djfhysdf	sdfsd	Pending	View

Showing 1 to 1 of 1 entries

Previous 1 Next

Copyright © CMS - Boston 2025

03:24 PM 09-03-2025

- This is show user booking list
- User show booking details and update status

View the booking:

The screenshot shows a web browser window with the address bar displaying `127.0.0.1:8080/user_bookings/`. The browser's address bar and tabs are visible at the top. The main content area shows a modal window titled "Booking Details" with a close button (X) in the top right corner. The modal contains the following information:

- Ref. Code:** 192323
- Status:** Pending (indicated by a yellow button)
- Cancel Booking** (indicated by a red button)
- Client Details:**
 - Name:** AB CD
 - Email:** abcd@gmail.com
 - Pickup Zone:** djfhysdf
 - Drop-off Zone:** sdfsd
- Driver Details:**
 - Name:** Allen S. Nichols
 - Contact:** 7895410000
 - Address:** 74 Frosty Lane
- Cab Details:**
 - Cab Body No:** GJ03RR4947
 - Vehicle Category:** 5 Seater

In the background, a "My Bookings" table is partially visible, showing a single entry for March 8, 2025. The table has columns for "#", "Date", and "View". The "View" column contains a "View" button. The table is showing 1 to 1 of 1 entries.

- Click on the view button then show the full details of driver and user
- User also cancel the booking

User profile :

Manage Account

127.0.0.1:8080/manage_account/

CMS Home Cab Available About Us

abcd123

Account Details

First Name	Last Name
<input type="text" value="AB"/>	<input type="text" value="CD"/>
Gender	Contact #
<input type="text" value="Male"/>	<input type="text" value="9873216540"/>
Address	
<input type="text" value="Society Sheri, Kalana."/>	
Email	
<input type="text" value="abcd@gmail.com"/>	
Avatar	
<input type="button" value="Choose File"/> <input type="text" value="No file chosen"/>	

- User update their profile

Registration form :

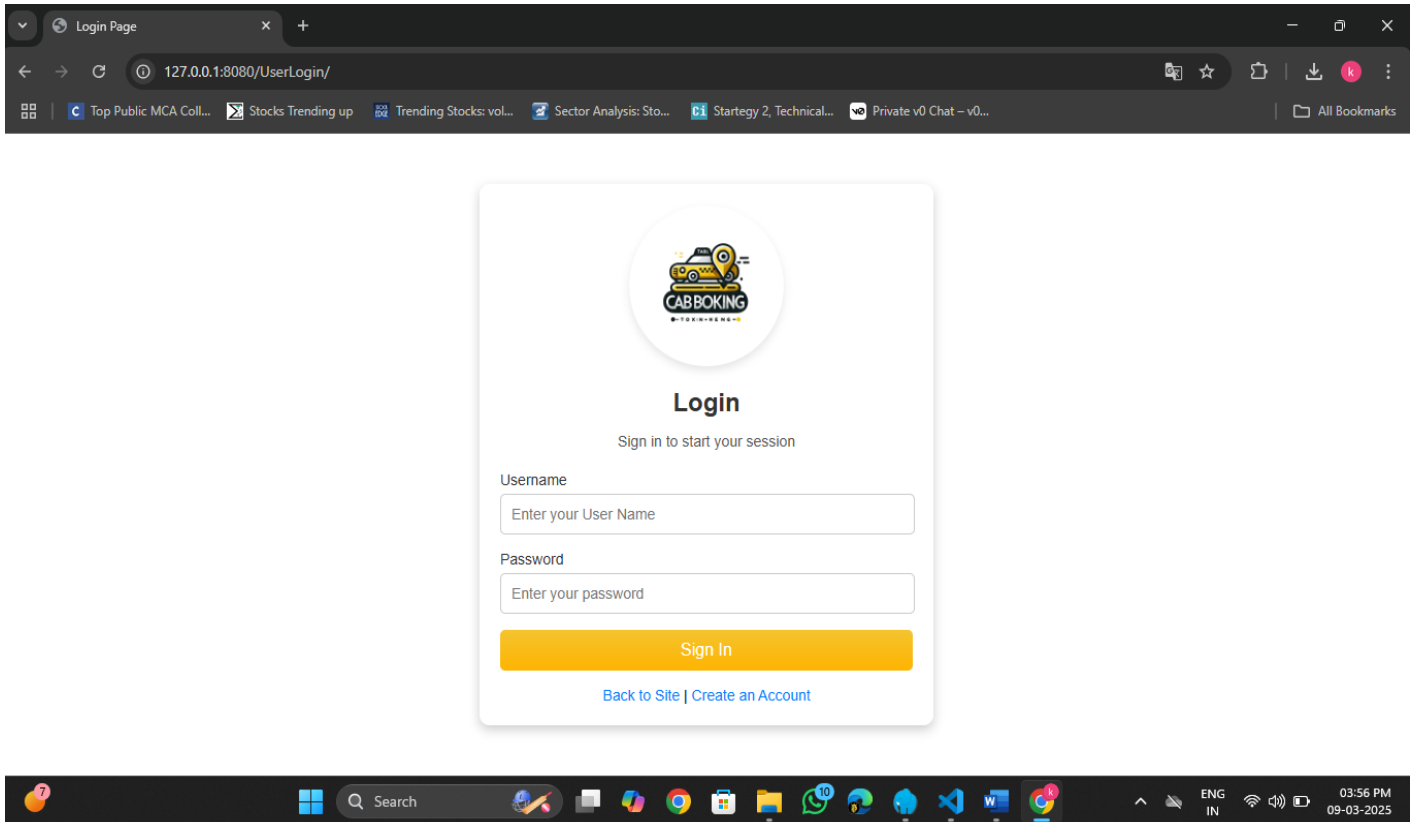
The screenshot shows a web browser window with the address bar displaying "127.0.0.1:8080/Registration/". The browser's tab bar shows "Registration Page". The page content features a registration form overlaid on a background image of a yellow taxi. The form includes the following fields and elements:

- First Name:** Text input field with placeholder "Enter First Name".
- Last Name:** Text input field with placeholder "Enter Last Name".
- User Name:** Text input field with placeholder "Enter User Name".
- Gender:** Dropdown menu with "Male" selected.
- Contact:** Text input field with placeholder "Enter Contact #".
- Address:** Text input field with placeholder "Block 6 Lot 23, Here Subd., There City, Anywhere, 2386".
- Email:** Text input field with placeholder "jsmith@sample.com".
- Password:** Text input field.
- Avatar:** Section with a "Choose File" button and "No file chosen" text.
- Register Button:** A prominent orange button labeled "Register".
- Footer:** Links for "Back to Site" and "Already have an Account?".

The Windows taskbar at the bottom shows the search bar, task view button, and several application icons including Chrome, File Explorer, and various office tools. The system clock indicates the time is 03:57 PM on 09-03-2025.

- User can register here for the site

User login :



- User, admin, driver login here

IMPLEMENTATION AND EVALUATION

Implementation

- Developed using Django for backend, PostgreSQL for database, and Google Maps API for location tracking.
- Secure user authentication with email/password login and OAuth (Google, Facebook) integration.
- Booking system allows users to schedule rides, track drivers in real-time, and estimate fares dynamically.
- Drivers can accept or reject ride requests, update availability, and navigate using in-app maps.
- Integrated multiple payment options, including Stripe, Razorpay, and PayPal, for seamless transactions.

Evaluation

- Functional testing ensures smooth booking, ride tracking, and payment processing.
- Performance testing optimizes database queries and API response times for faster execution.
- Security measures include CSRF protection, encrypted transactions, and role-based access control.
- Usability testing improves UI/UX for better navigation and mobile responsiveness.
- Deployed on cloud servers (AWS/Heroku) with real-time monitoring for error handling and updates.

Future Enhancement:

1. AI-Based Fare Estimation

Implement machine learning algorithms to analyze traffic patterns, demand fluctuations, and weather conditions for dynamic fare pricing.

2. Subscription Plans

Offer membership or subscription plans for frequent users with benefits like discounted fares and priority booking.

3. Real-Time Driver Tracking & ETA Prediction

Improve GPS tracking and integrate predictive algorithms to provide more accurate estimated arrival times (ETA).

4. Cashless & QR Code Payments

Enable cashless payments via QR codes, allowing users to scan and pay directly from their preferred payment app.

5. Driver Tips & Donations

Provide an option for users to tip drivers digitally or donate to a cause through the app.

6. Electric & Hybrid Vehicle Options

Promote sustainable travel by introducing an option to book electric or hybrid vehicles.

WEBLIOGRAPHY

Referring online manual from website

- + <https://docs.python.org/>
- + <https://docs.djangoproject.com/>
- + <https://dev.mysql.com/doc/>
- + <https://stackoverflow.com/>