

A

Project Report On
Cab Management System

By:
Kayum Parmar
Semester – 6

Project Guide:
PROF. KISHORSINH VALA



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. KISHORSINH VALA** 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.

Index

	Project Profile	01
	Introduction	02
	Software Environment	04
	Working Environment	06
	Diagrams	07
	Data Dictionary	09
	Screen Shots	12
	Implementation and Evaluation	35
	Future Enhancement	36
	Webliography	37

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 Cab 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 Cab 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 Cab 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 Cab 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 Cab 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 Cab Management System. It efficiently handles data related to bookings, customer details, cab availability, and 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 Cab Management System.

SYSTEM REQUIREMENT

Hardware Configuration:

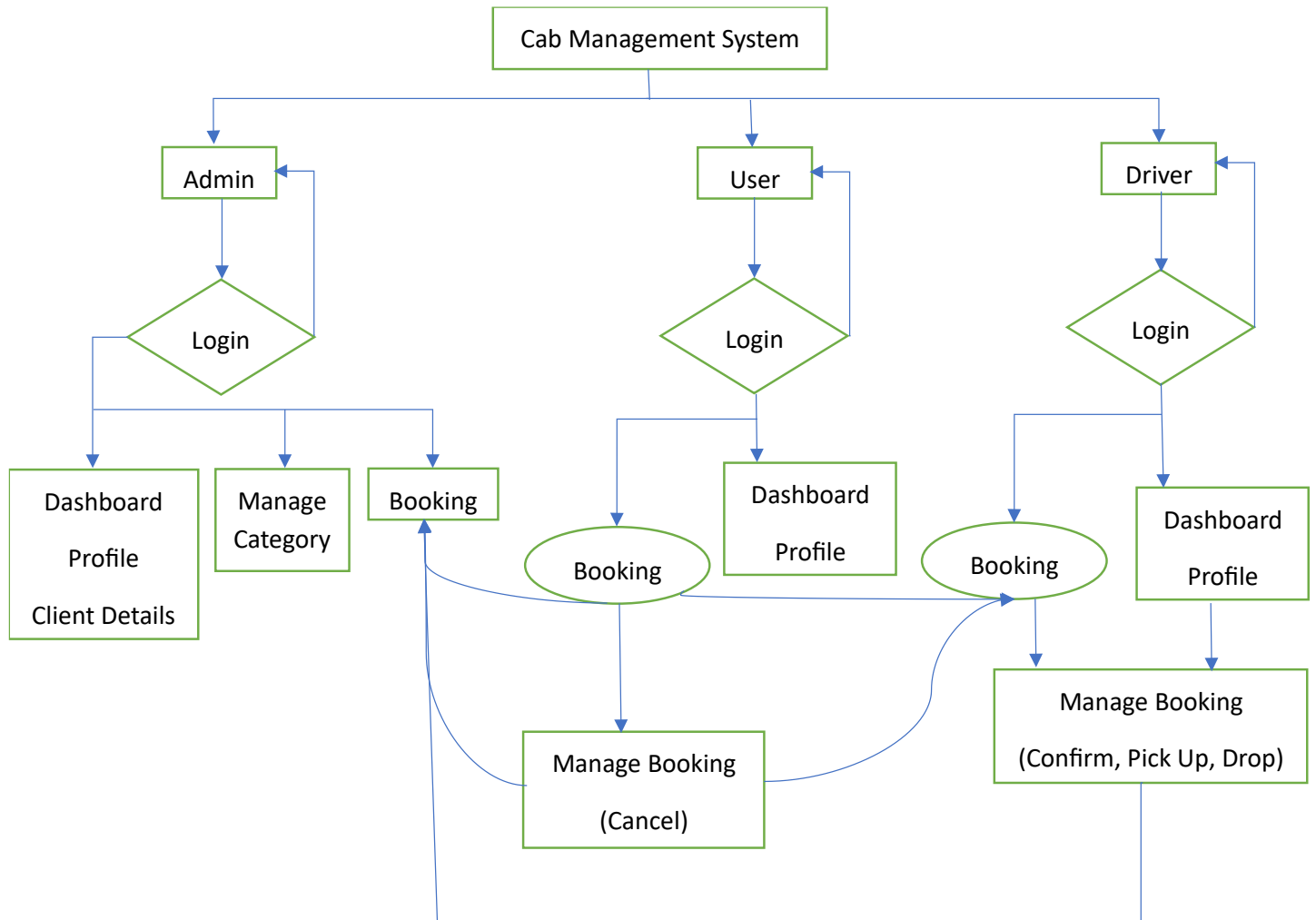
Processor	:	intel i3
RAM	:	4 RAM
Hard Disk Drive	:	20 GB
Monitor	:	15'6" HD Display
Display Type	:	VGA

Software Configuration:

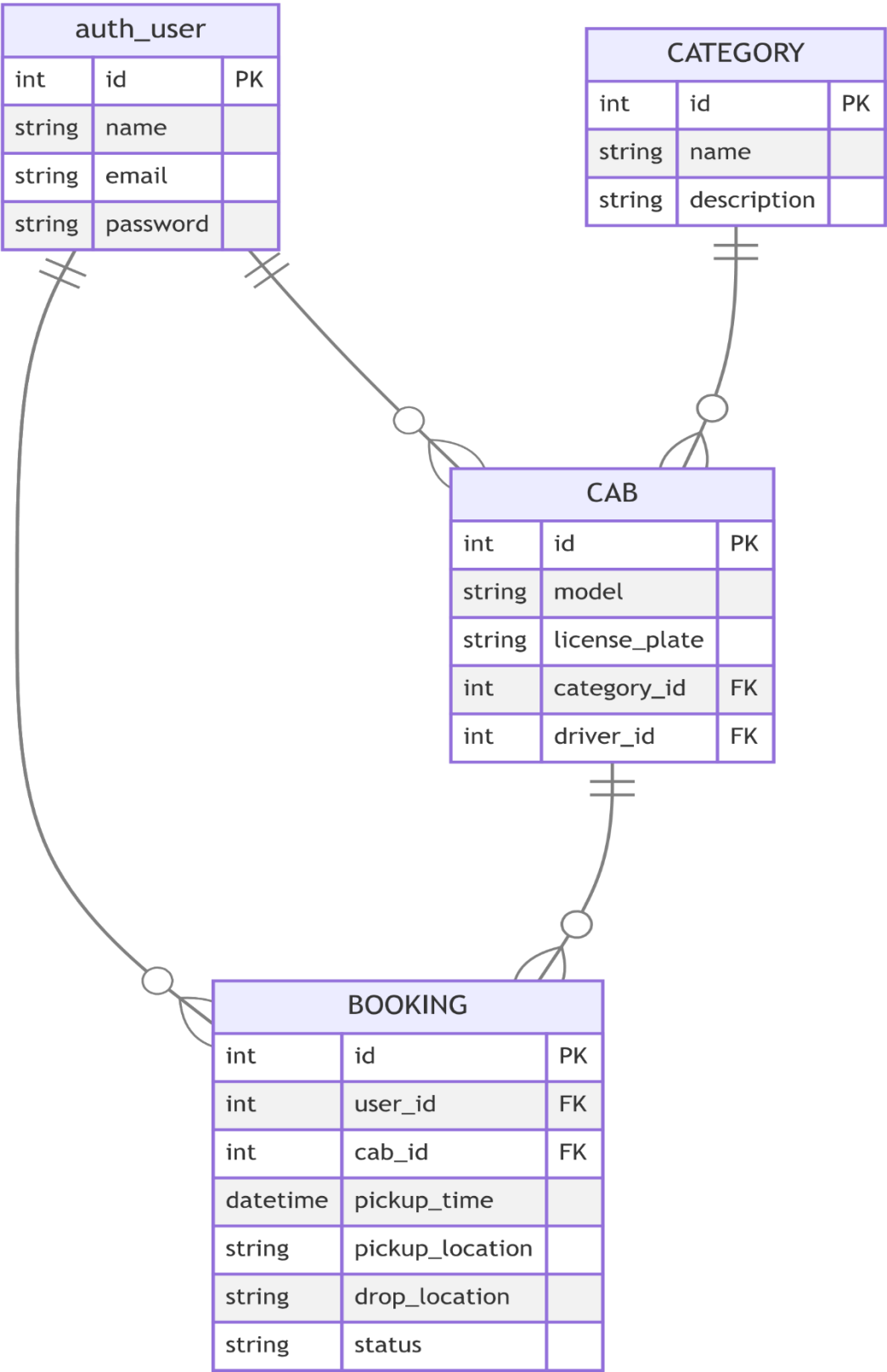
Operating System	:	Windows 11 , or any other
Web server	:	Apache
Web Browser	:	Chrome/Edge
Designing Tool	:	HTML
Server Side Scripting	:	Django
Client Side Scripting	:	MYSQL

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 :

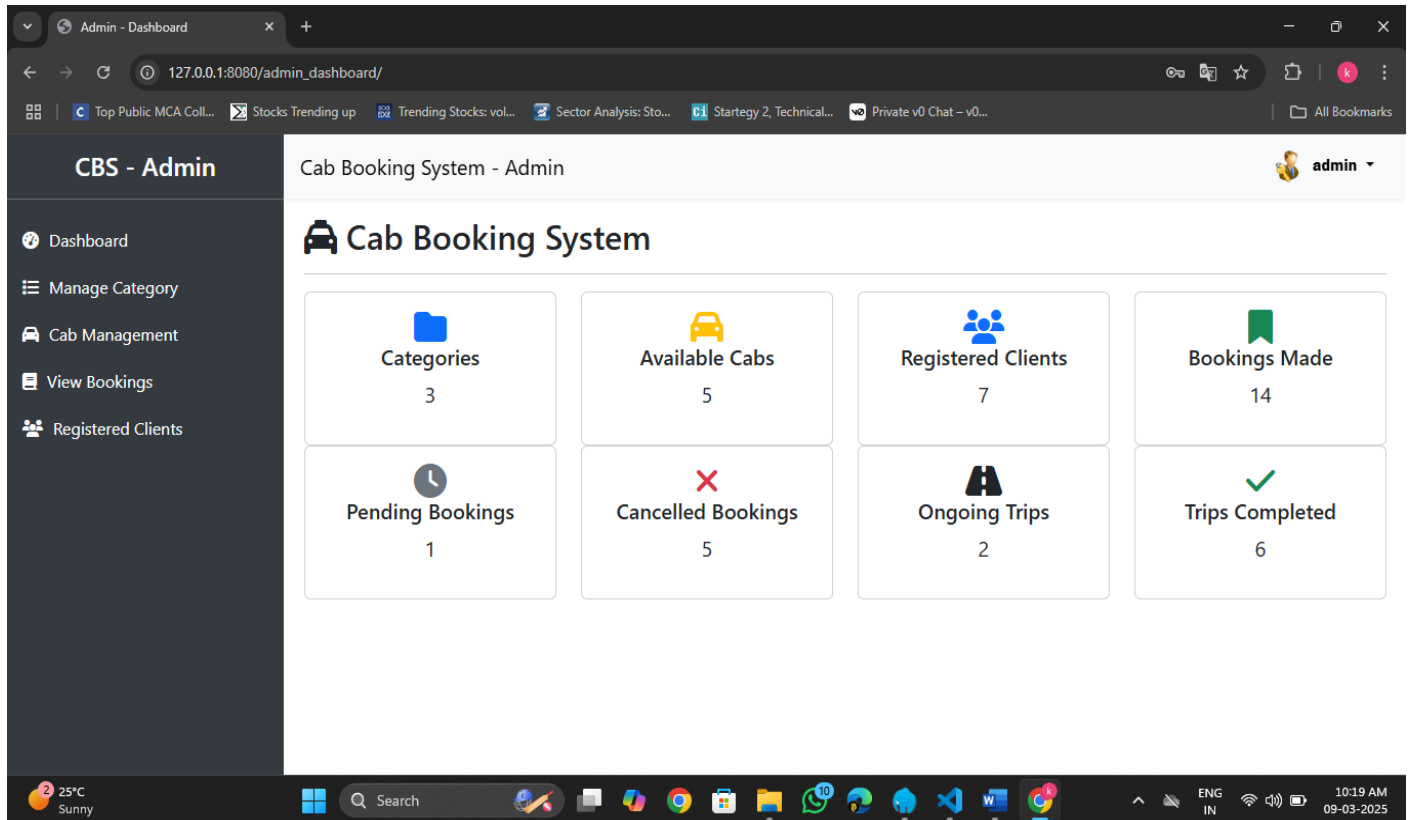
#	Name	Type	Collation	Null	Default	Extra
1	id	int(11)		No	None	AUTO_INCREMENT
2	cab_reg_no	varchar(50)	utf8mb4_general_ci	No	None	
3	cab_model	varchar(10)	utf8mb4_general_ci	No	None	
4	body_no	varchar(50)	utf8mb4_general_ci	No	None	
5	driver_contact	varchar(50)	utf8mb4_general_ci	No	None	
6	driver_address	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:

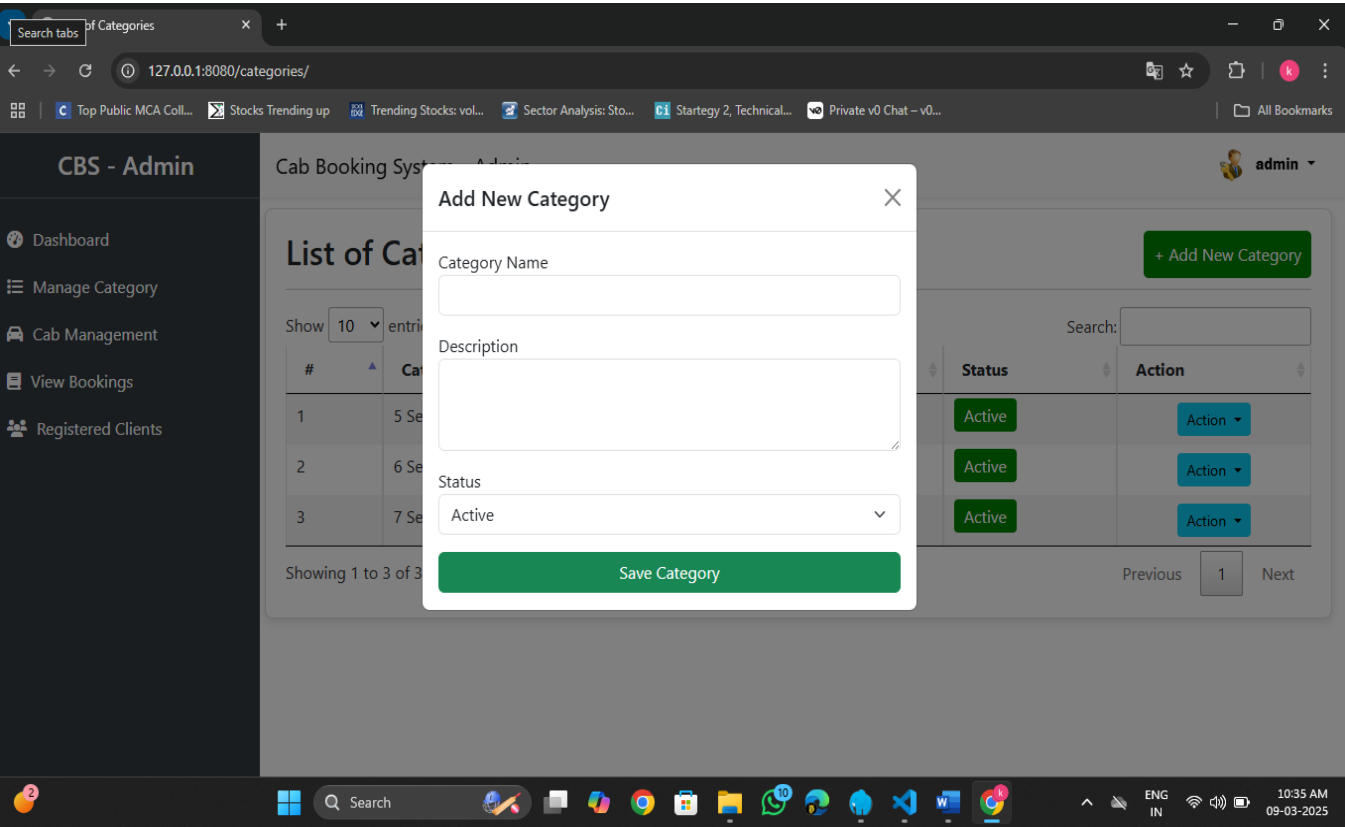
The screenshot displays the 'List of Categories' page within the 'CBS - Admin' system. The page features a sidebar with navigation options: Dashboard, Manage Category, Cab Management, View Bookings, and Registered Clients. The main content area shows a table with 3 entries, each representing a category. The table columns are #, Category, Description, Status, and Action. The entries are: 1 (5 Seater, iuguygguygccxgffcf, Active), 2 (6 Seater, tjygyj, Active), and 3 (7 Seater, vvcfzdfddzzcvbdfd, Active). Each entry has an 'Action' button. A search bar and a '+ Add New Category' button are also visible. The bottom of the page shows a Windows taskbar with various application icons and a system clock indicating 10:19 AM on 09-03-2025.

#	Category	Description	Status	Action
1	5 Seater	iuguygguygccxgffcf	Active	Action
2	6 Seater	tjygyj	Active	Action
3	7 Seater	vvcfzdfddzzcvbdfd	Active	Action

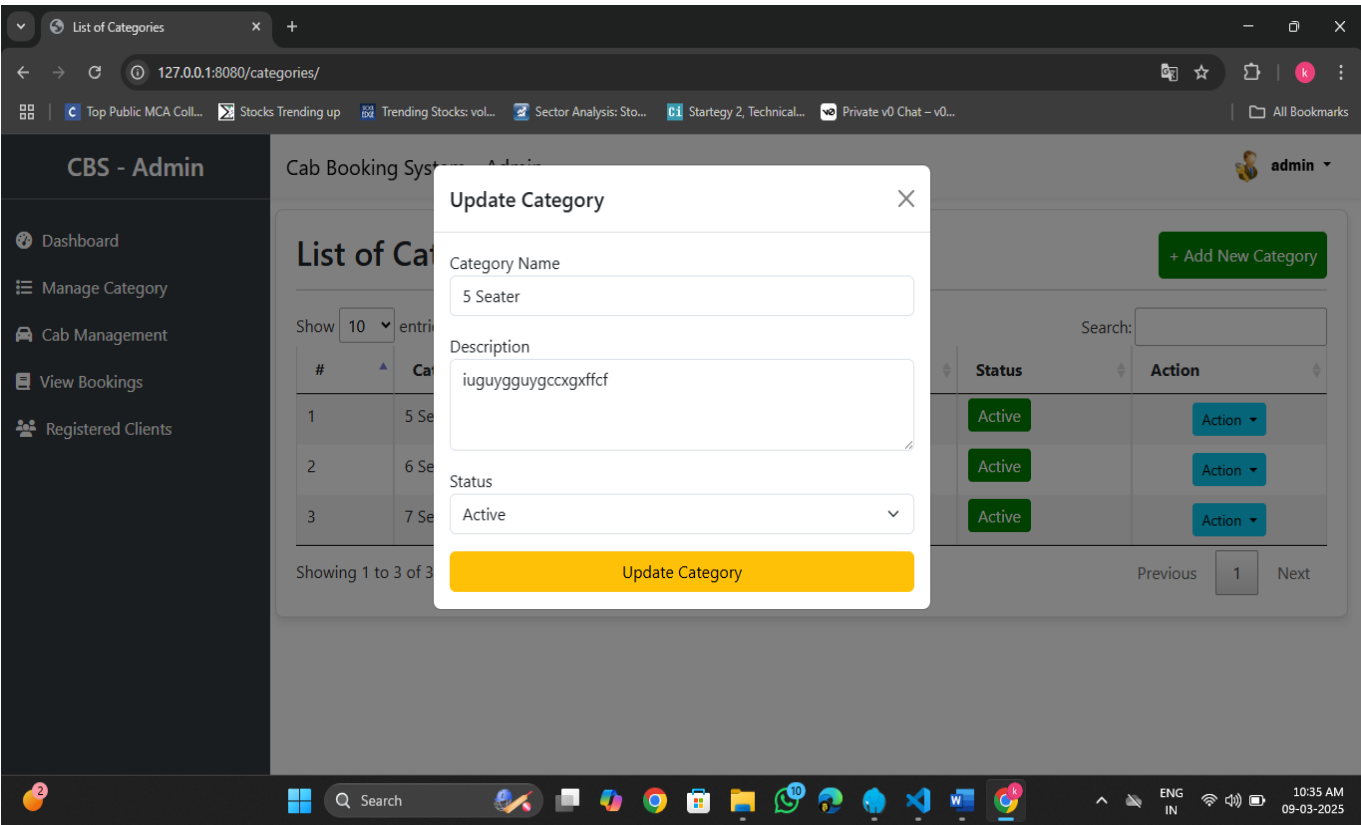
In this page manage the categories :

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

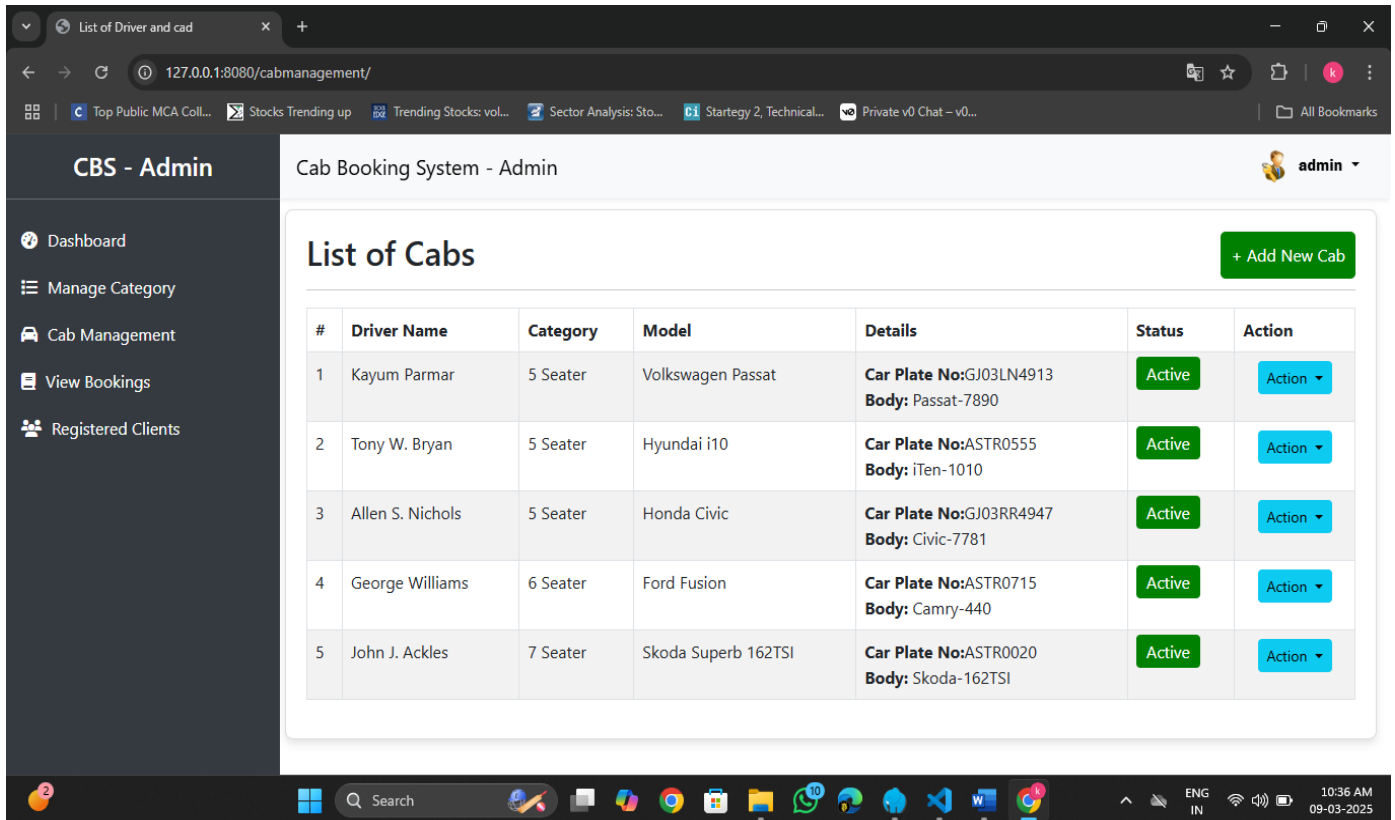
Add Categories:



Update Categories:



Cab management:



CBS - Admin Cab Booking System - Admin admin

List of Cabs

[+ Add New Cab](#)

#	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 File

No file chosen



New Password (Leave blank to keep current password)

Status:

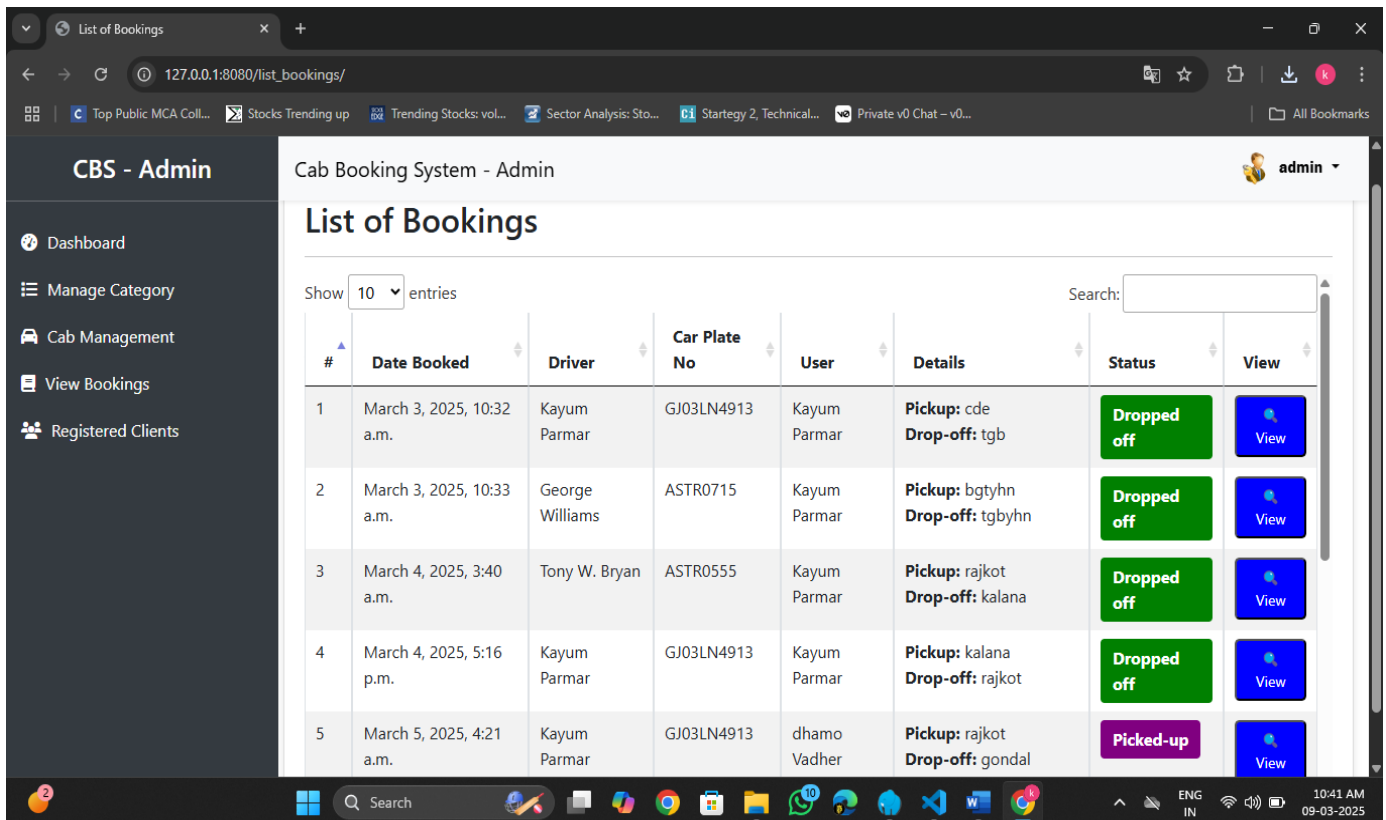
Active

Update Cab

Cancel

Here edit the cab details by the admin.

List of the booking:



The screenshot shows the 'List of Bookings' 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 displays a table of bookings with the following data:

#	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 a web application interface for managing cab bookings. The browser window shows the URL `127.0.0.1:8080/list_bookings/`. The application has a dark sidebar on the left with the title "CBS - Admin" and a menu containing "Dashboard", "Manage Category", "Cab Management", "View Bookings", and "Registered Clients". The main content area is titled "Booking Details" and shows information for a specific booking with reference 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 show a cab body number of Passat-7890 and a vehicle category of 5 Seater. On the right side of the application, there is a table with columns for "Status" and "View". The table lists several bookings, all with a status of "Dropped off" except for one with a status of "Picked-up". Each row has a "View" button next to it. The Windows taskbar at the bottom shows the time as 10:41 AM on 09-03-2025.

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 browser's tab is titled 'List of Client'. The page content is part of a 'CBS - Admin' dashboard, with a sidebar on the left containing navigation links: 'Dashboard', 'Manage Category', 'Cab Management', 'View Bookings', and 'Registered Clients'. The main content area is titled 'Cab Booking System - Admin' and 'List of Client'. It features a table with five columns: '#', 'User Name', 'Address', 'Details', and 'Action'. The table lists five clients, each with their ID, name, address, contact number, email, and an 'Action' button. The bottom of the image shows a Windows taskbar with various application icons and a system clock indicating 10:42 AM on 09-03-2025.

#	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

- 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 with the address bar displaying '127.0.0.1:8080/profile/'. The browser's tab bar shows several open tabs, including 'Top Public MCA Coll...', 'Stocks Trending up', 'Trending Stocks: vol...', 'Sector Analysis: Sto...', 'Startegy 2, Technical...', and 'Private v0 Chat - v0...'. The browser's address bar also shows 'All Bookmarks'.

The web application interface is titled 'CBS - Admin' in the top left corner. The main header area displays 'Cab Booking System - Admin' and a user profile icon labeled 'admin'.

The left sidebar contains a navigation menu with the following items: 'Dashboard', 'Manage Category', 'Cab Management', 'View Bookings', and 'Registered Clients'.

The main content area displays the 'Admin Profile' form. The form fields are as follows:

- First Name: hello
- Last Name: hy
- Email: admin123@gmail.com
- Username: admin
- Password: (empty field)

Below the password field, there is a note: 'Leave this blank if you don't want to change the password.'

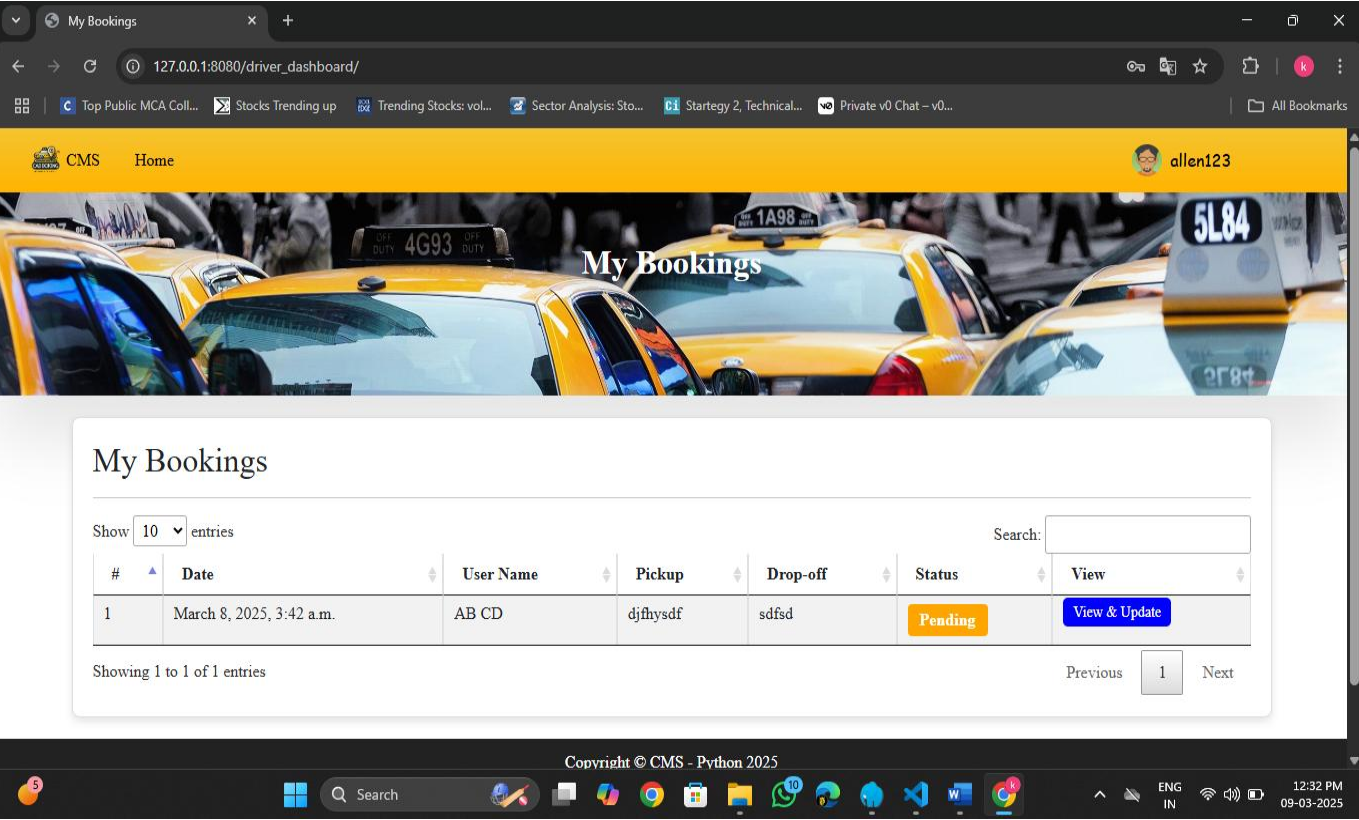
At the bottom of the form, there is a green 'Update' button.

The Windows taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray on the right shows the language 'ENG IN', network status, and the date and time '10:43 AM 09-03-2025'.

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

Driver panel :

Driver dashboard :



- 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 with 'CMS Home' and a user profile 'allent23'. The main content area is a form titled 'Update Booking' with the following details:

- Ref. Code:** 192323
- Pickup Zone:** djfbyrdf
- Drop-off Zone:** idfid
- Status:** Pending
- Confirm Booking** button
- 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** button

At the bottom of the page, there is a footer with 'Copyright © CMS - Python 2025' and 'Developed By: Kayum Pannar'. The Windows taskbar at the bottom shows the time as 12:34 PM on 09-03-2025.

- In this page driver confirm 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 allen123

Manage Account Details/Credentials

Account Details

First Name
Allen S. Nichols

Contact #
7895410000

Address
74 Frosty Lane

Avatar
Choose File No file chosen

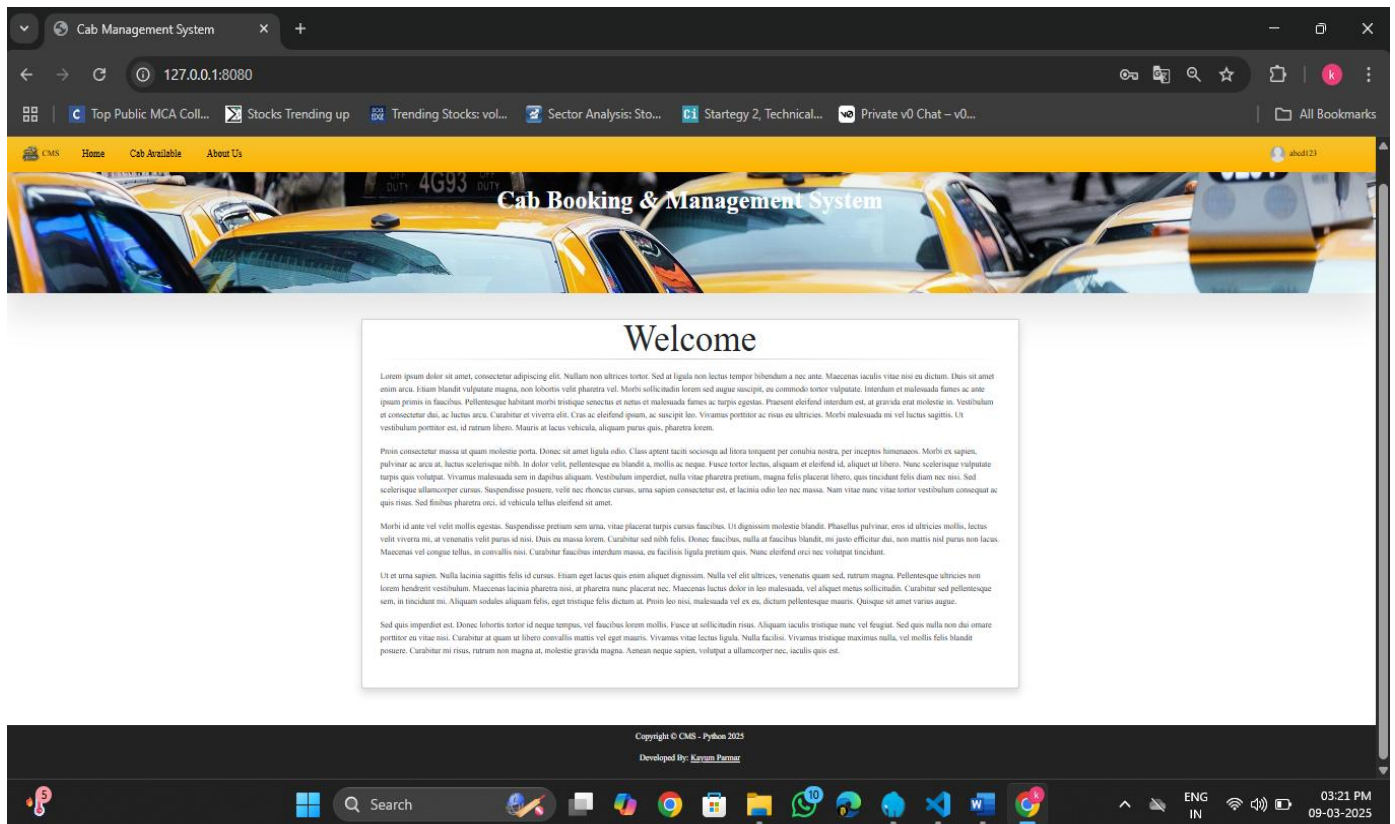
Update Details

Copyright © CMS - Python 2025
Developed By: Kayam Parmar

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

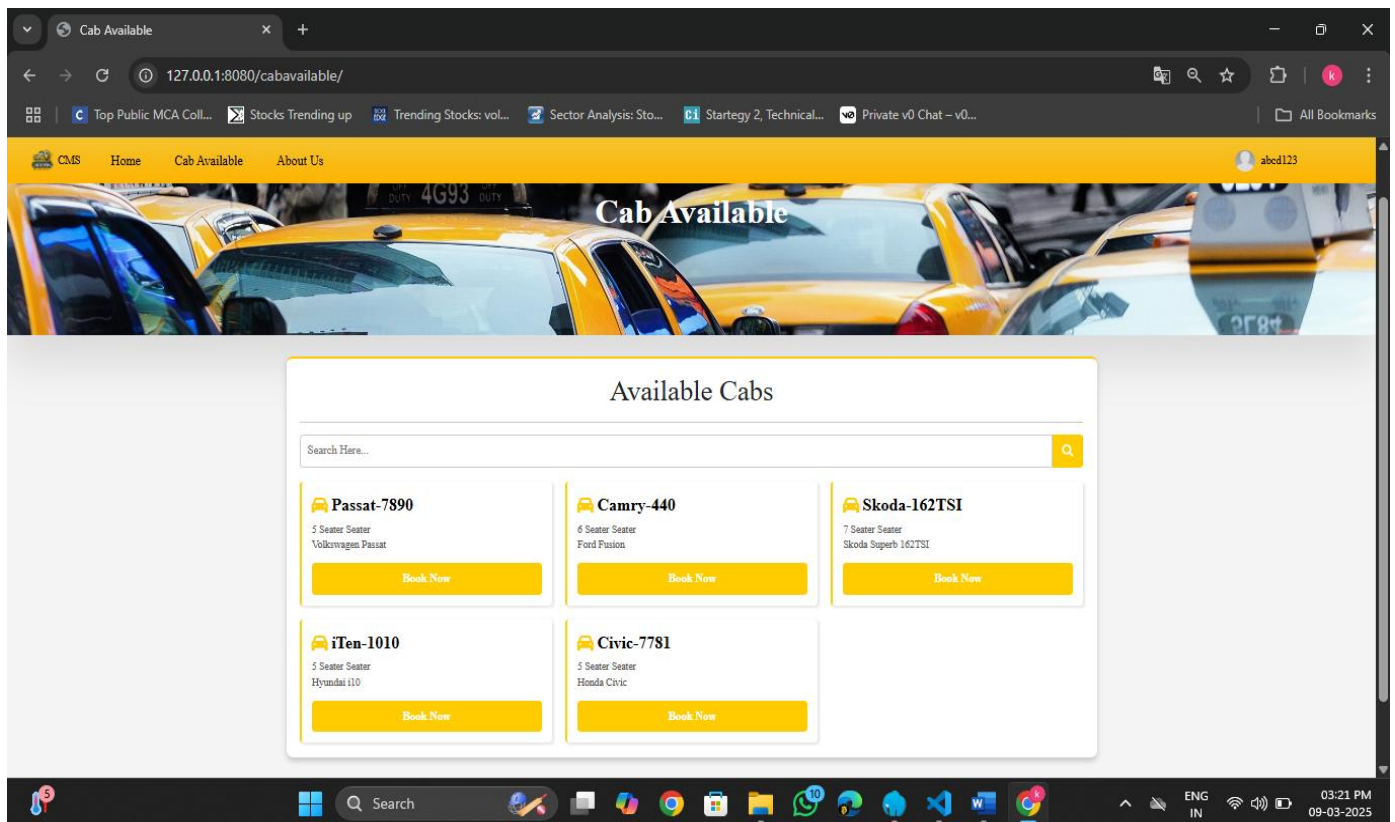
User model:

Home page :



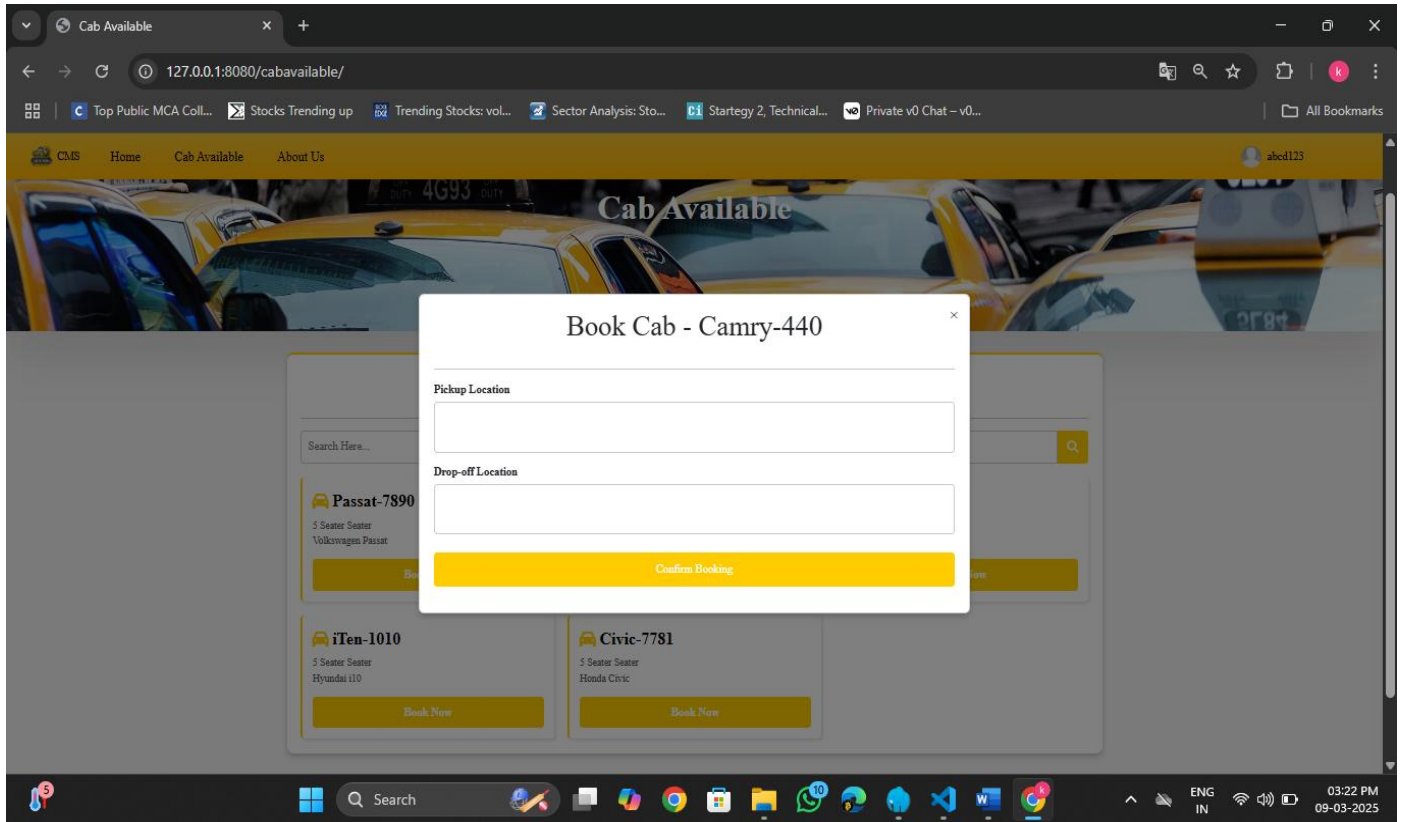
- This home page.

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:


 CMS

Home

Cab Available

About Us

 abed123



Reliable, Fast & Affordable Rides

About Cab

CabXpress is a leading cab booking service dedicated to providing safe, reliable, and affordable rides. With a fleet of modern vehicles and professional drivers, we ensure comfortable travel experiences for our customers. Whether you need a ride for daily commuting, airport transfers, or city travel, CabXpress is here for you.

Why Choose Us?

- ✓ 24/7 Availability & Support
- ✓ Affordable & Transparent Pricing
- ✓ Professional & Experienced Drivers
- ✓ Safe, Comfortable & Fast Rides

Copyright © CMS - Python 2025

Developed By: [Kayum Parmar](#)

User booking :

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 - Dathon 2025

ENG IN 03:24 PM 09-03-2025

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

View the booking:

The screenshot displays a web application interface for viewing booking details. The browser address bar shows the URL `127.0.0.1:8080/user_bookings/`. The application has a dark-themed header with navigation links: CMS, Home, and Cab. A sidebar on the left shows 'My Bookings' with a table of bookings. The main content area features a 'Booking Details' modal window.

Booking Details

Ref. Code: 192323 Status: **Pending** [Cancel Booking](#)

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

The sidebar 'My Bookings' table shows:

#	Date
1	March 8, 2025, 3

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/

Top Public MCA Coll...Stocks Trending upTrending Stocks: vol...Sector Analysis: Sto...Startegy 2, Technical...Private v0 Chat - v0...All Bookmarks

CMSHomeCab AvailableAbout Usabcd123

Account Details

First Name

AB

Last Name

CD

Gender

Male

Contact #

9873216540

Address

Society Sheri, Kalana.

Email

abcd@gmail.com

Avatar

Choose File

No file chosen

Update Details

5

Search

ENG
IN

03:23 PM
09-03-2025


- User update their profile

Registration form :

Registration Page

127.0.0.1:8080/Registration/

Top Public MCA Coll... Stocks Trending up Trending Stocks: vol... Sector Analysis: Sto... Startegy 2, Technical... Private v0 Chat - v0... All Bookmarks



First Name

Enter First Name

Last Name

Enter Last Name

User Name

Enter User Name

Gender

Male

Contact

Enter Contact #

Address

Block 6 Lot 23, Here Subd., There City, Anywhere, 2386


Email

jsmith@sample.com

Password

Avatar

Choose File No file chosen

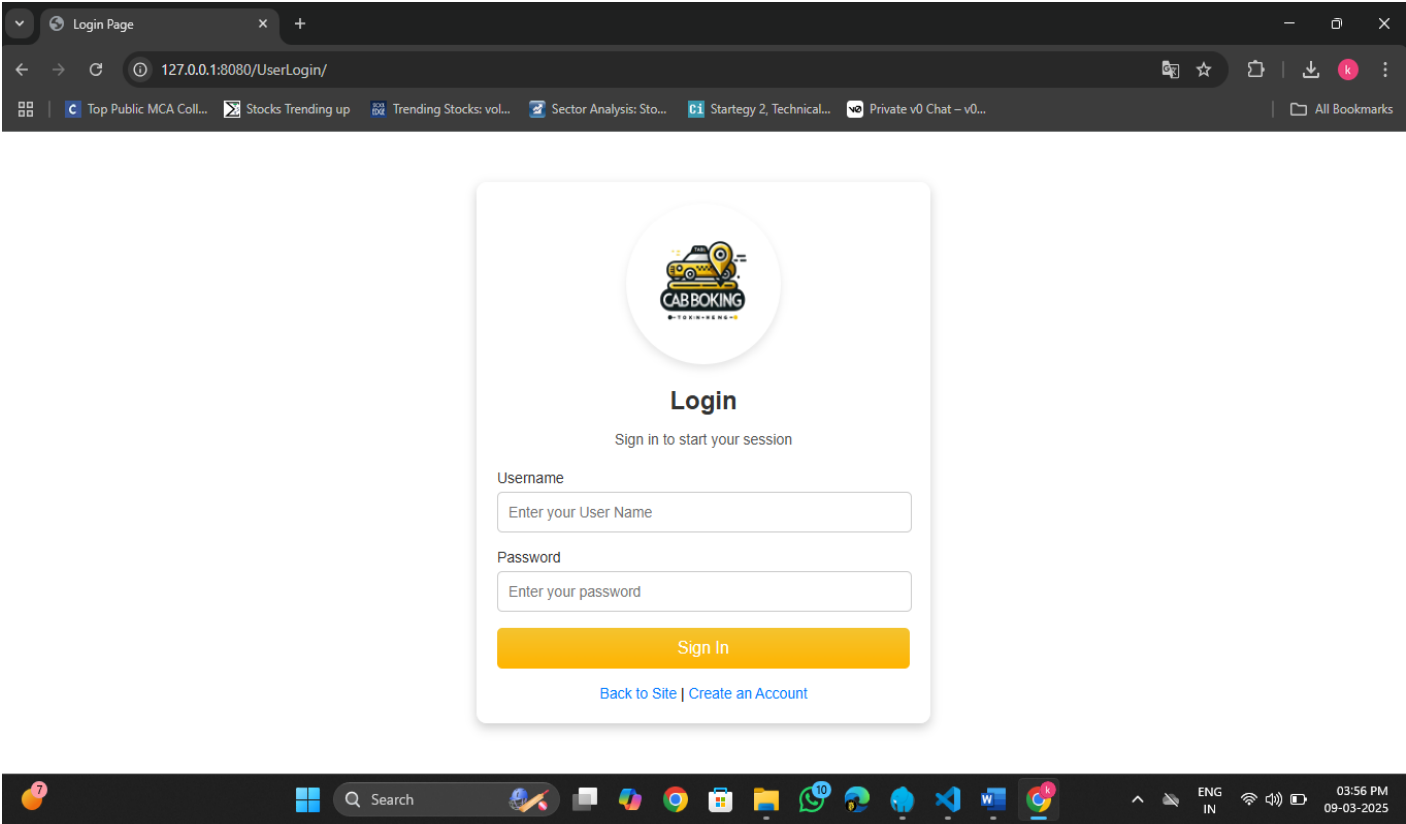


Register

[Back to Site](#) | [Already have an Account?](#)

- 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/>