A

Project Report

On...

# Car Rental Management

Developed By...

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And
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Submitted To...

Geetanjali Colleges Of Computer Science And Commerce(BBA)

Saurashtra University

23-2024

Prof. Kishorsinh Vala

## Acknowledgements

- First Of All We Are Sincerely Thanked To Saurashtra University For Giving A Project As A Particular Subject.
- I Am Also Greatly Grateful To Our Geetanjali Group Of Colleges. We Would Like To Thanks Prof. Brijesh Shah (HOD) For Providing Us Opportunity To Prepare This Project.
- To Complete This Project Many Persons Help Me. But I Am Specially Thanked To Prof. KishorSingh Vala For Guiding My Project Analysis And Development. They Help Me Conceptualized The Idea Of The Project And Also Helped Me In Streamline My Work By Providing Me Every Facility Required.
- Not Only College And Guide Help Me But All The Well Wisher Who Gives Me Excellent Support In During Project.

• Thanks To All.

Your Faith Full,

Arab Aaftab Kadarbhai

And

Makwana Varun Mayakbhai

### **Preface**

- ➤ Welcome to the Car Rental Management System! This comprehensive system is designed to streamline the processes involved in managing car rentals, reservations, and fleet operations within a car rental agency or rental service center.
- Car rental services play a crucial role in providing flexible mobility solutions for individuals and businesses alike. Efficient management of rental vehicles, bookings, and customer interactions is essential for the success of any car rental agency. Proper management ensures that customers receive the vehicles they need, at the right time, whilemaintaining an optimized fleet and enhancing overall service quality.
- This system aims to address the various challenges faced by car rental agencies, including managing reservations, maintaining accurate records of vehicles and customers, coordinating fleet maintenance, and ensuring smooth rental and return processes. By automating these processes and providing robust features and reporting, the Car Rental Management System facilitates the efficient operation of rental agencies, ultimately improving customer satisfaction and operational efficiency.
- ➤ The Car Rental Management System provides numerous features, including the ability to add and update vehicle details, manage customer records, process bookings, and track rental.
- > Thank you for choosing our Car Rental Management System. We are committed to providing you with a reliable and efficient solution to support your critical work in delivering exceptional car rental services.

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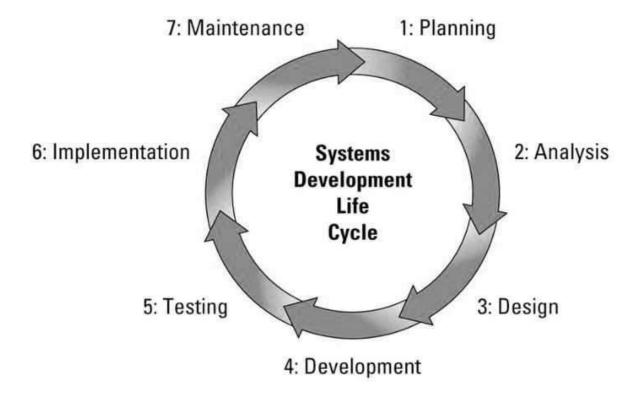
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# Project Profile

About Project	Project Details
Project Title	Car Rental Management
Editor	Microsoft Visual Studio – 2022
Front End	HTML,CSS,BOOTSTRAP,JS
Backend	PHP
Year	2023-2024
Project Guide	Prof. KishorSinh Vala
Submitted By	Arab Aaftab And Varun Makwana
Documentation Tool	Microsoft Word
Operating System	Windows
Project Type	Website

### **System Development Life Cycle**



### > Planning

- Gather requirements from stakeholders (e.g., car rental agencies, customers).
- Identify key features such as booking management, vehicle inventory, customer profiles, payment processing, and reporting.

### > Analysis

- Conduct detailed interviews and workshops with stakeholders to refine requirements.
- Create use cases and user stories.

### > Design

- Design the system architecture, including database schema, server infrastructure, and application layers.
- Create wireframes and mockups for the user interface.

### > Development

- Set up the development environment.
- Write code for different modules (e.g., booking system, customer management, payment gateway).
- Develop the front-end and back-end components.

### > Testing

- Conduct various types of testing (e.g., functional, integration, system, acceptance).
- Perform automated and manual tests to identify and fix bugs.

### > Implementation

- Prepare deployment plans and ensure all prerequisites are met.
- Deploy the system to a staging environment for final testing.

#### > Maintenance

- Monitor system performance and address any issues that arise.
- Provide support for users and fix any bugs or defects discovered postdeployment.
- Perform regular backups and system maintenance.

# **Technology Requirement**

#### > Software

- Any windows operating system windows 7 to windows 11
- Web Browser (Google Chrome, Internet Explorer, etc...)
- Front-End -> HTML, CSS, JAVASCRIPT, BOOTSTRAP
- Back-End -> PHP, MY SQL
- Microsoft Visual Studio 2022 Editor

#### > Hardware

- Processor: Intel core 2 duo and after all
- RAM 4 GB or Higher
- HDD with 256GB or Higher

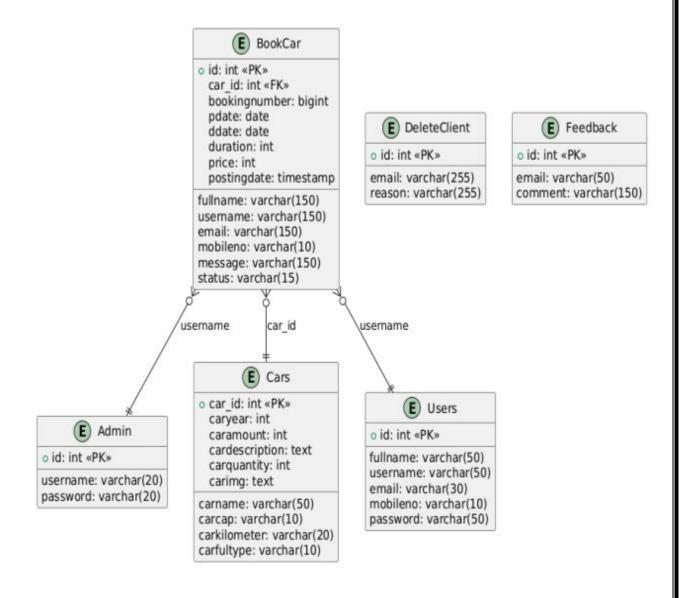


### **System Design Tools**

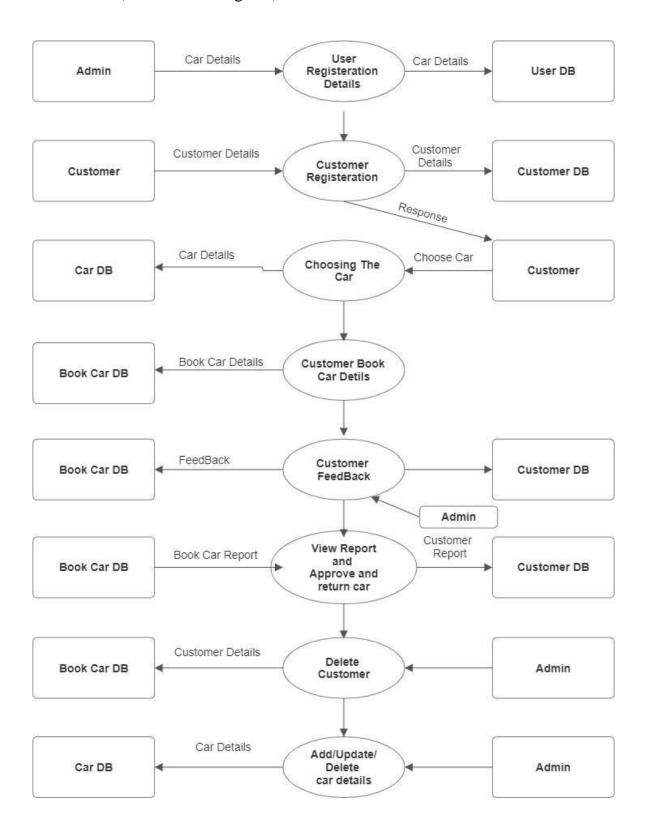
[ER Diagrams]

[DFD's]

### > ER Diagrams



## > DFD(Data Flow Diagram)



# **Data Dictionarys**

# 1. Admin

Field Name	Data Type	Description	Constraints
id	Integer(11)	Unique identifier	Primary Key, Auto-
1 1 1 1	A STATE OF THE PARTY OF THE PAR	The same of the sa	increment
username	Varchar(20)	Admin Username	Not Null
password	Varchar(20)	Admin Password	Not Null

# 2. Users

Field Name	Data Type	Description	Constraints
id	Integer(11)	Unique identifier for each User	Primary Key, Auto-increment
fullname	Varchar(50)	User Full Name	Not null
username	Varchar(50)	User Name	Not null
<mark>e</mark> mail	Varchar(30)	User Email	Not null
mobileno	Varchar(10)	User Mobile No	Not null
password	Varchar(50)	User Password	Not null

# 3. Cars

Field Name	Data Type	Description	Constraints
car_id	Integer(11)	Unique identifier	Primary Key,
		for each Cars	Auto-increment
carname	Varchar(50)	Car Name	Not null
car <mark>ye</mark> ar	Integer(10)	Car Launch Year	Not null
carcap	varchar(10)	Car Seats	Not null
carkilo <mark>me</mark> ter	varchar(20)	Car Kilometer	Not null
caramount	Integer(11)	Car PerDay	Not null
11 3		Amount	En 1 1 1
carquantity	Integer(50)	Car	Not null
. 1985 P. C.		Quantity	
cardescription	Text	Car Description	Not null
carfultype	Varchar(10)	Car Fuel Type	Not null
carimg	text	Car Image	Not null

# 4. User Booking Cars

Field Name	Data Type	Description	Constraints
id	Integer(11)	Unique identifier for each User Book Car	Primary Key, Auto-increment
car_id	Integer (11)	Identifier for the booked car.	foreign key
bookingnumber	Bigint(12)	Unique booking number.	Not null
fullname	varchar(150)	Fullname of the person who booked the car.	Not null
username	Varchar(150)	Username of the person who booked the car.	Not null
email	Varchar(150)	email of the person who booked the car.	Not null
mobileno	Integer (10)	email of the person who booked the car.	Not null
pdate	date	Pickup date of the car.	Not null
ddate	date	Drop date of the car.	Not null
message	Varchar(150)	Additional message or notes.	Not null
duration	Integer (150)	Duration of the booking in days.	Not null
price	Integer (150)	Total price for the booking.	Not null
status	Varchar(15)	Current status of the booking (e.g., RETURNED, pending).	Not null
postingdate	timestamp	Date and time when the booking was created or last updated.	Not null

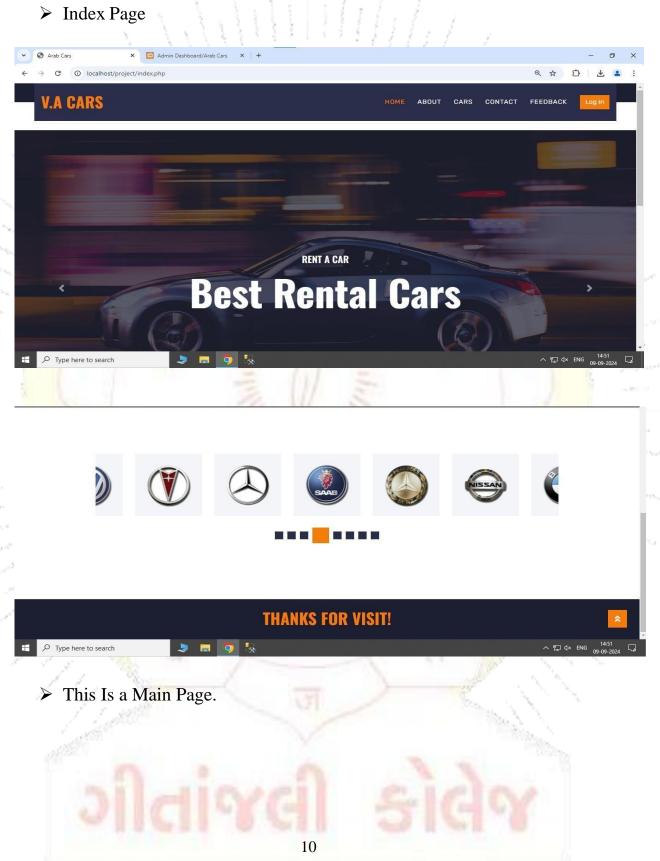
# 5. Feedback

Field Name	Data Type	Description	Constraints
id	Integer (11)	Unique identifier for the feedback entry	Primary Key, Auto-increment
email	Varchar(50)	Email address of the user providing feedback	Not null
comment	Varchar(150)	Feedback or comment provided by the user.	Not null

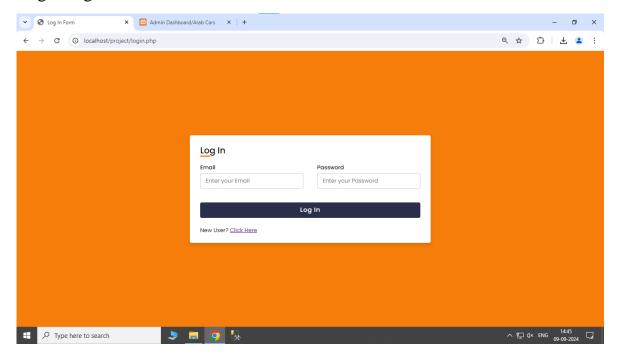
# 6. Delete Client

Field	Data Type	Description	Constraints
Name			
Id	Integer (11)	Unique identifier	Primary Key, Auto-
		for the deletion	increment
		record	
email	Varchar(255)	Email address of	Not null
		the deleted client.	
reason	Varchar(255)	Reason for the	Not null
		client's deletion.	

## **Screen Shorts**

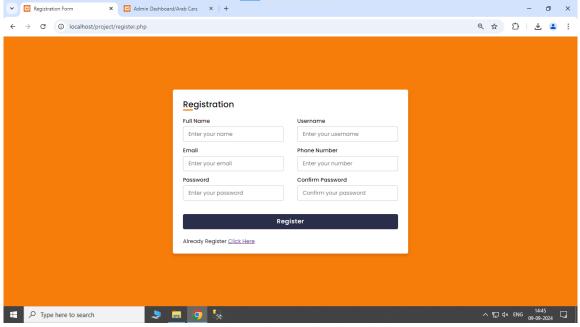


# ➤ Login Page

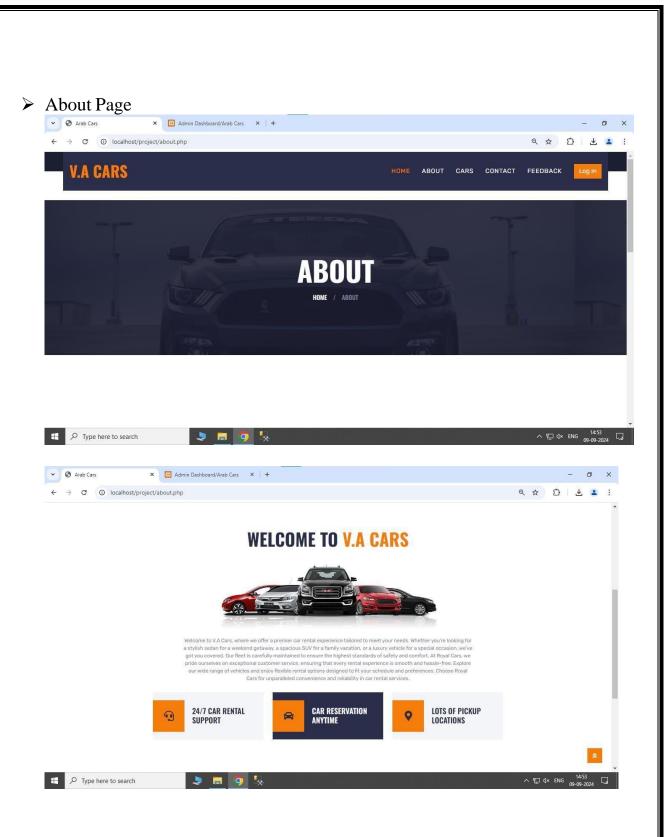


➤ Here User Login For Book A Car.

> Registration Page

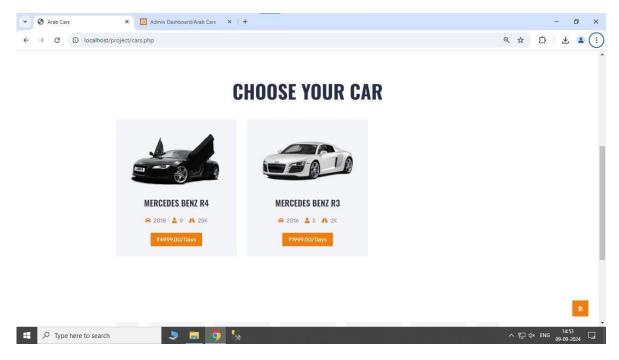


➤ Here User Can Create His/Her Account.

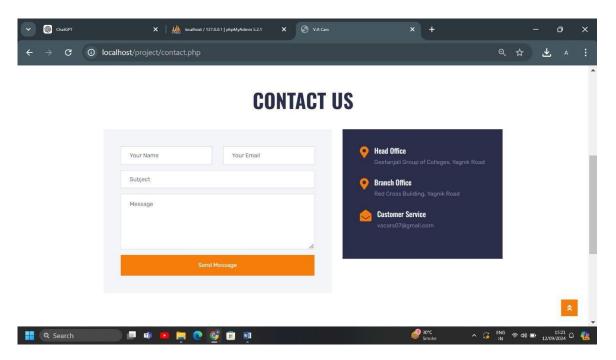


➤ This Is A About Page.

Car Page

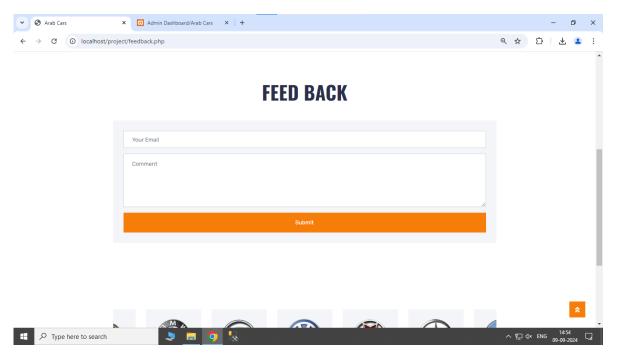


- > In This Page Display All Available Cars For Booking
- Contact Page

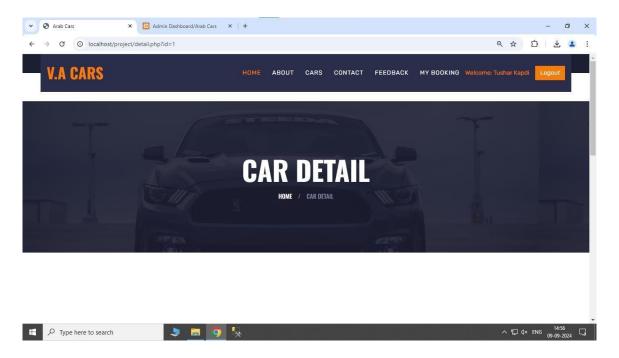


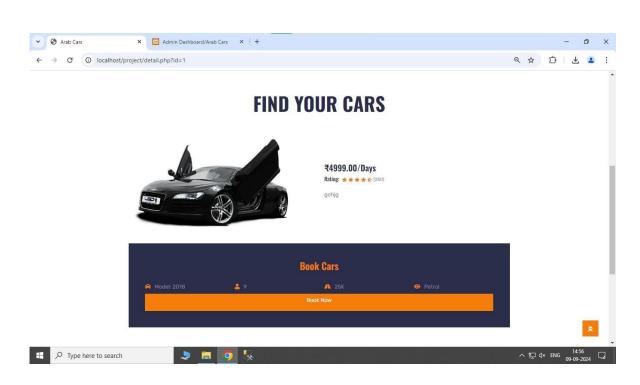
➤ Here User Contact To Admin

➤ Feed Back Page

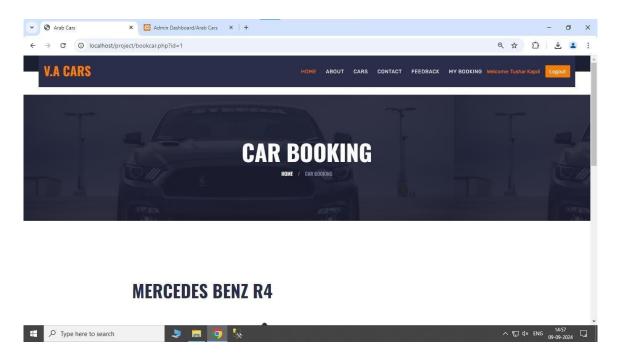


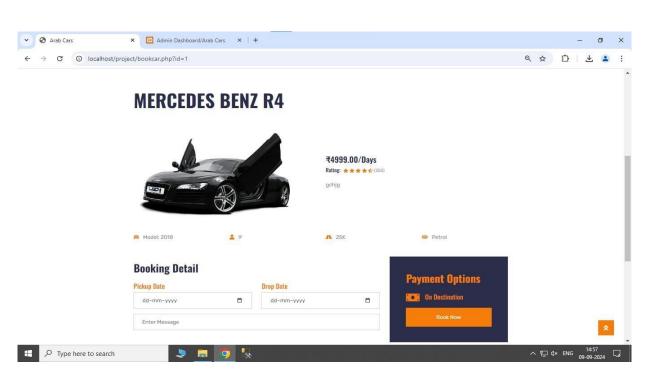
- ➤ Here User Can Provide Feedback about Service
- ➤ Car Details Page



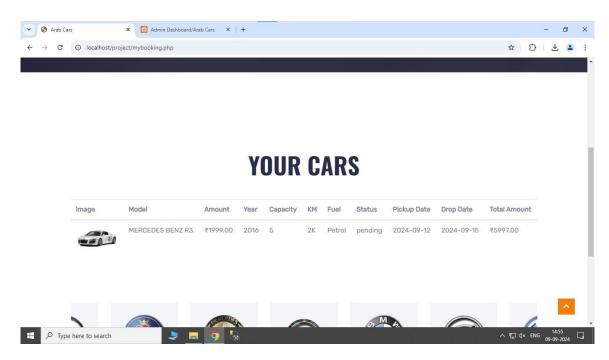


- ➤ This Page Display Selected Car Details
- Car Booking Page



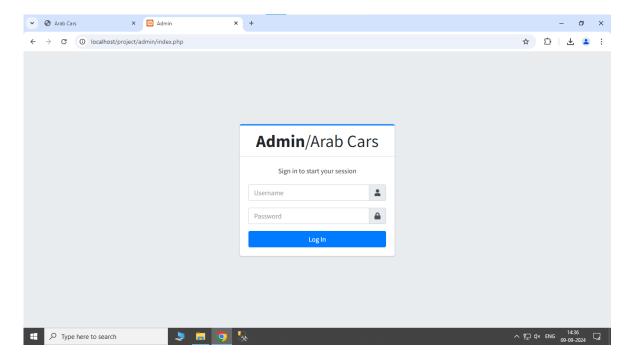


- ➤ Here User Select Car Pickup Date And Drop Date
- ➤ My Booking Page

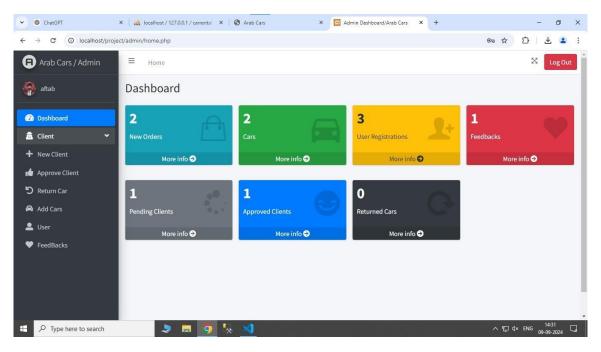


> This Page Display Which Car User Booked

# ➤ Admin Login

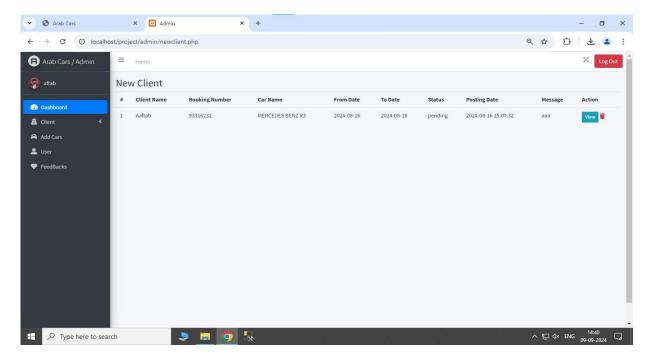


- ➤ This Is A Admin Login Page
- ➤ Admin Home Page

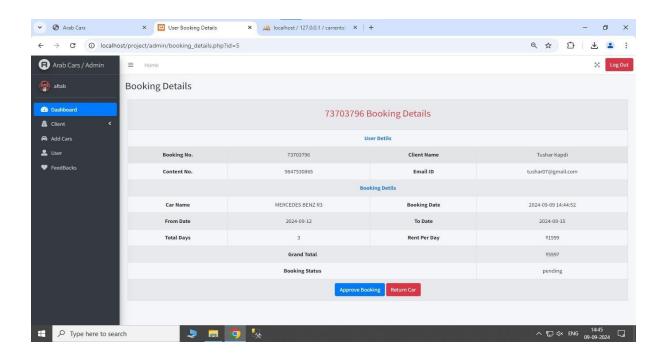


> This is Dashboard Page

#### ➤ New Client Details

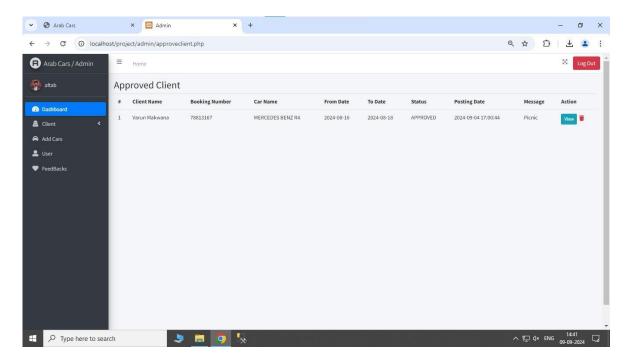


➤ This Page Display New Client Details

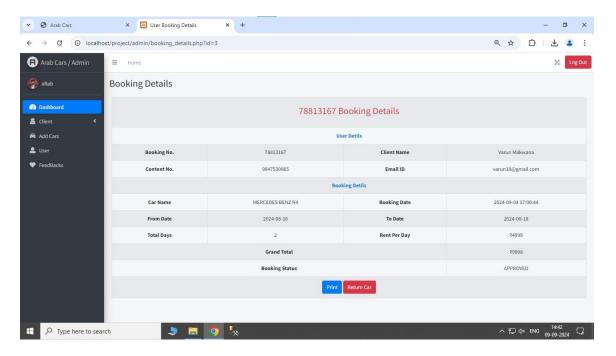


➤ Admin Can Approve And Return Car In This Page

➤ Approve Client Booking Details

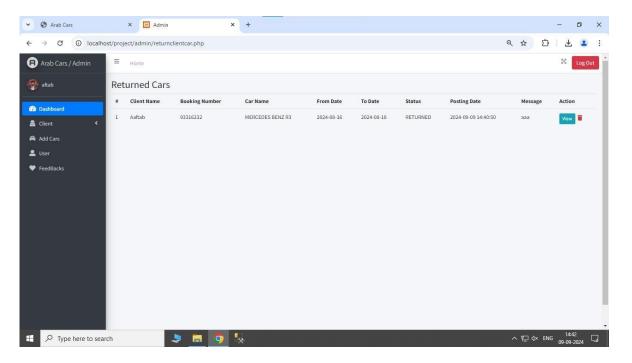


➤ This Page Display Approve Client Details

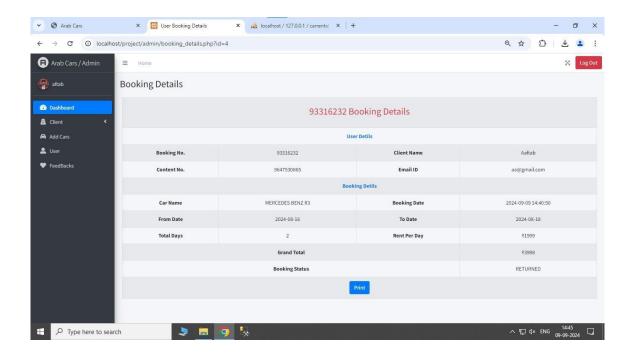


➤ Admin Can Print Approve User Details And Return Car In This Page

> Return Car Client Details

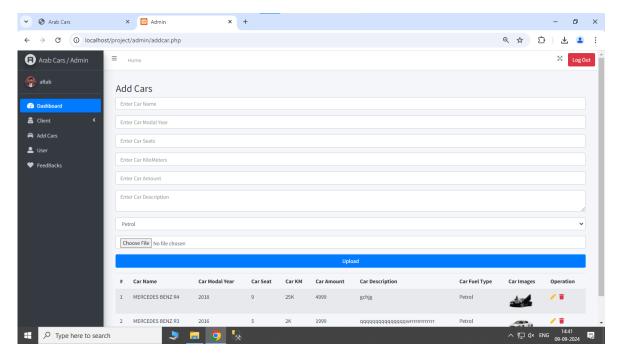


➤ This Page Display Returned Client Details

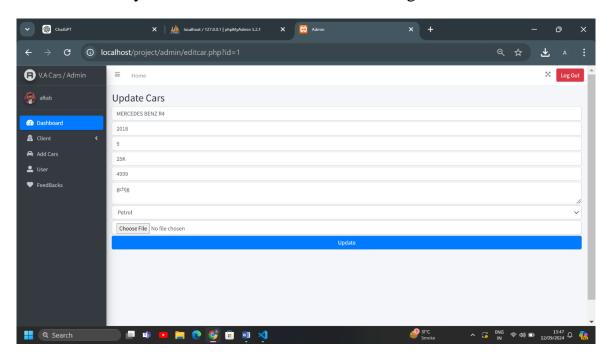


> Admin Can Print Return User Details In This Page

➤ Add And Update Car Page

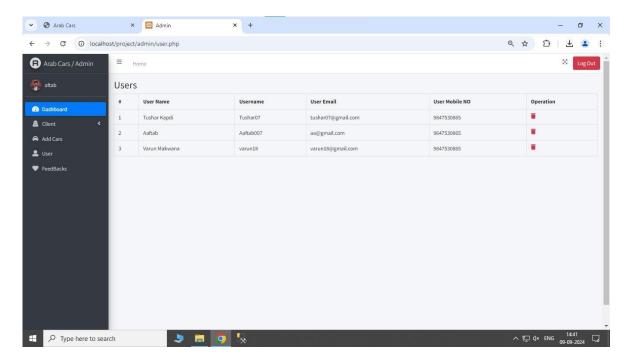


➤ Here Only Admin Add Car Details In This Page

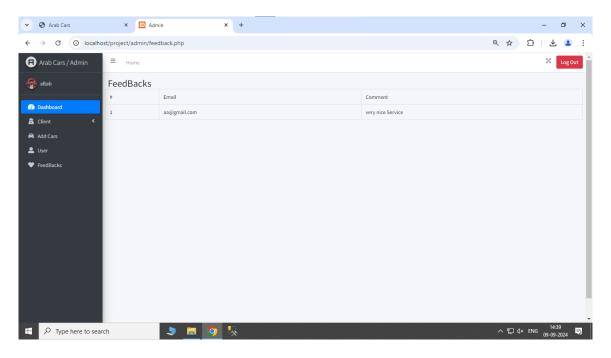


➤ Here Only Admin Update Car In This Page

➤ User Detail Page



- ➤ This Page Display Login User Details
  - > Feed Back Detail Page



➤ This Page Display Feedback From Users

## **Future Requirements Of Projects**

## 1. Upgraded Vehicle Options

➤ Goal: Add cool new features and more diverse cars to our fleet.

### 2. Better User Experience

➤ Goal: Make using our service super easy and fun with thelatest tech.

### 3. AI and Machine Learning

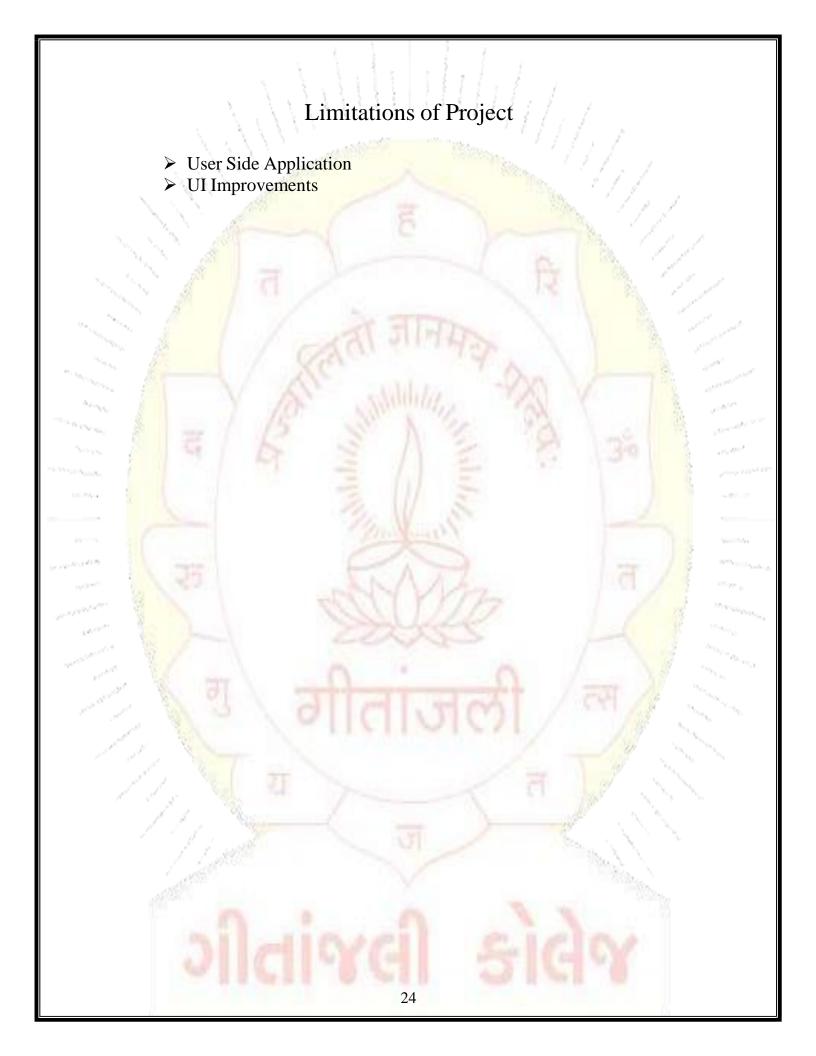
➤ **Goal**: Use smart technology to make our service better andmore personalized.

### 4. Seamless Integration

➤ **Goal**: Make everything work smoothly together for users.

#### 5. Sustainability Features

➤ **Goal**: Be environmentally friendly and let users do their part.



# Webliography

- ➤ <a href="https://stackoverflow.com/">https://stackoverflow.com/</a>
- > https://www.javatpoint.com/
- https://W3schools.com/

