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Department of Computer Science and Engineering

# *Certificate*

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This is to certify that the mini project entitled "**Car Rental System**" is a bonafide work carried out by **MANCHALA ANUDEEP (1MJ17CS094)** a bonafide student of MVJ College of Engineering in partial fulfillment for the award of degree of Bachelor of Engineering in Computer Science & Engineering of the Visvesvaraya Technological University, Belagavi during the year 2020-21. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the Report. The mini Project Report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

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**Signature of the Guide**  
(Mrs.S.SUGUNA)

---

**Signature of the HOD**  
(Prof.C.KAVYASHREE)

**Signature of the Examiners**

.....  
**Internal**

.....  
**External**

# **ABSTRACT**

Aim is to design and create a data management System for a car rental organization. This enables admin can rent a vehicle that can be used by a customer. By paying the money during a Specified Period of time. This system increases customer retention and simplify vehicle Management in an efficient way. This software car Rental System has a very user friendly interface. Thus the users will feel very easy to work on it. By using this system admin can manage their rental, payment and vehicle issues. The car information can be added to the system. Or existed car information can be edited or deleted too by Administrator. The transaction reports of the car rental system can be retrieved by the admin, when its required .Thus, there is no delay in the availability of any car information, whenever needed, car information can be Captured very quickly and easily. The customers can also use the system to get car rent. The customer should create a new account before logging in or he / she can log into the System with his/her created account. Then he/she can view the available cars in a branch and make a reservation for a Car. This system will helpful to the admin as well as to the customer also.

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# **ACKNOWLEDGEMENT**

The satisfaction and euphoria that accompany the successful completion of any task would be incomplete without the mention of the people who made

it possible, whose constant guidance and encouragement crowned our effort with success.

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## CONTENTS

	CHAPTERS	PAGE NO'S.
Chapter 1	Introduction	1
Chapter 2	System Requirement	2
Chapter 3	Problem Description	3
Chapter 4	System Design	6
Chapter 5	Implementation	9
Chapter 6	Screenshots	45
Chapter 7	Conclusion	51
	BIBLIOGRAPHY	52

## LIST OF FIGURES

<b>Fig Number</b>	<b>Fig Name</b>	<b>Chapter No</b>	<b>Page No</b>
4.1	ER-Diagram	4	6
4.2	Schema Diagram	4	7
6.1	Home Page	6	45
6.2	Admin login	6	45
6.3	Admin home page	6	46
6.4	Add car	6	46
6.5	Delete car	6	47
6.6	Update car	6	47
6.7	User register	6	48
6.8	Login page(user)	6	48
6.9	Profile page	6	49
6.10	Book car	6	49
6.11	Rental confirmation	6	50
6.12	Return car	6	50

## LIST OF TABLES

<b>Table Number</b>	<b>Table Name</b>	<b>Chapter No</b>	<b>Page No</b>
3.1	Admin Table	3	3
3.2	Billing details table	3	4
3.3	Booking details table	3	4
3.4	Car details table	3	4
3.5	Car type table	3	5
3.6	Customer table	3	5

## **CHAPTER 1**

### **INTRODUCTION**

This Car Rental System project will enable the user to rent a vehicle. The user shall login to the system and check for availability of cars. The user specifies a type of car and the journey date and time. The Car Rental System shall check for the availability of the car and rent the car to the customer. Customers can select the cars for rent on the basis of car-type (i.e. Economy, Standard, Premium, and SUV). Our system provides facility for customers to book the car that is available in a particular Car Rental Agency by just providing their details. In our project we have considered only the booking date and returning date, hence we have not included the concept of “Late Fees”. The customers have to register on the web page to book any car; the registration includes their License details, the car which they want to book and many more. The customers would get an automatic generated bill on returning the car with the amount charged for car and 10% tax included. Where as on the admin side, the admin can add, delete the cars and can also update the pricing details if at all needed in the future. The admin has the ability to view the car details, customer details, revenue by car etc. The main advantage is that the customer shall be able to choose a car depending on his budget.

## **CHAPTER 2**

### **SYSTEM REQUIREMENTS**

#### **2.1 Hardware Requirements**

## Windows

- **Processor:** Intel Pentium 4 or later
- **Memory:** 2Gb Minimum, 4Gb Recommended
- **Screen resolution:** 1280\*1024 or larger
- **Application Window Size:** 1024\*680 or larger

## 2.2 Software Requirements

- **Client:** Operating System (Any)
- **Web Server:** Xampp (Apache)
- **Database Server:** MySQL
- **Languages:** HTML, CSS, PHP

## CHAPTER 3

### PROBLEM DESCRIPTION

This project consists of database with 6 tables. Each table with details of various fields like customer details, car type details, booking details, billing details etc.

The Database has the following tables for maintaining the details,

- Admin
- Billing\_details
- Booking\_details
- Car\_details

- Car\_type
- Customer

The description of the tables are as follows,

#	Name	Type	Collation	Attributes	Null	Default	Comments
<input type="checkbox"/> 1	<u>admin_id</u>	int(11)			No	None	Admin id
<input type="checkbox"/> 2	<u>uname</u>	varchar(50)	utf8_general_ci		No	None	Admin uname
<input type="checkbox"/> 3	<u>pass</u>	varchar(50)	utf8_general_ci		No	None	admin password

Table 3.1 – Admin table

#	Name	Type	Collation	Attributes	Null	Default	Comments
<input type="checkbox"/> 1	<u>bill_id</u>	int(10)			No	None	id given for billing
<input type="checkbox"/> 2	<u>booking_id</u>	int(11)			No	None	id given for booking
<input type="checkbox"/> 3	<u>bill_date</u>	date			No	None	date of billing
<input type="checkbox"/> 4	<u>amount</u>	decimal(10,2)			No	None	amount without tax
<input type="checkbox"/> 5	<u>tax_amount</u>	decimal(10,2)			No	None	tax amount
<input type="checkbox"/> 6	<u>total_amount</u>	decimal(10,2)			No	None	total amount

Table 3.2 – Billing\_details

#	Name	Type	Collation	Attributes	Null	Default	Comments
<input type="checkbox"/> 1	<u>booking_id</u>	int(20)			No	None	id given for booking
<input type="checkbox"/> 2	<u>car_id</u>	int(11)			No	None	id allotted for car
<input type="checkbox"/> 3	<u>cust_id</u>	int(11)			No	None	id allotted for customer
<input type="checkbox"/> 4	<u>from_date</u>	date			No	None	starting date
<input type="checkbox"/> 5	<u>return_date</u>	date			Yes	NULL	ending date

Table 3.2 – Booking\_details



#	Name	Type	Collation	Attributes	Null	Default	Comments
<input type="checkbox"/> 1	<u>car_id</u>	int(11)			No	None	id allotted for car
<input type="checkbox"/> 2	<u>car_type_id</u>	int(11)			Yes	1	car type id
<input type="checkbox"/> 3	<u>reg_id</u>	varchar(255)	utf8_general_ci		No	None	registration number
<input type="checkbox"/> 4	<u>car_name</u>	varchar(255)	utf8_general_ci		No	None	name of car
<input type="checkbox"/> 5	<u>image</u>	text	utf8_general_ci		No		car image
<input type="checkbox"/> 6	<u>rental_price</u>	int(11)			No	None	price for rental
<input type="checkbox"/> 7	<u>status</u>	varchar(255)	utf8_general_ci		No	None	status of availability

Table 3.4 – Car\_details

#	Name	Type	Collation	Attributes	Null	Default	Comments
<input type="checkbox"/> 1	<u>car_type_id</u>	int(11)			No	None	id allotted for car type
<input type="checkbox"/> 2	<u>car_type_name</u>	varchar(50)	utf8_general_ci		No	None	type of car
<input type="checkbox"/> 3	<u>in_stock</u>	int(11)			No	None	stock count
<input type="checkbox"/> 4	<u>in_repair</u>	int(11)			No	None	repair count

Table 3.5 – Car\_type

#	Name	Type	Collation	Attributes	Null	Default	Comments
<input type="checkbox"/> 1	<u>cust_id</u>	int(11)			No	None	id allotted for customer
<input type="checkbox"/> 2	<u>dl_no</u>	varchar(10)	utf8_general_ci		No	None	driving licence number
<input type="checkbox"/> 3	<u>first_name</u>	varchar(255)	utf8_general_ci		Yes	NULL	first name
<input type="checkbox"/> 4	<u>last_name</u>	varchar(255)	utf8_general_ci		Yes	NULL	last name
<input type="checkbox"/> 5	<u>dob</u>	date			No	None	date of birth
<input type="checkbox"/> 6	<u>address</u>	varchar(255)	utf8_general_ci		No	None	address
<input type="checkbox"/> 7	<u>city</u>	varchar(255)	utf8_general_ci		No	None	city
<input type="checkbox"/> 8	<u>state</u>	varchar(255)	utf8_general_ci		No	None	state
<input type="checkbox"/> 9	<u>contact_no</u>	char(10)	utf8_general_ci		No	None	customer contact no
<input type="checkbox"/> 10	<u>password</u>	varchar(255)	utf8_general_ci		No	None	customer password
<input type="checkbox"/> 11	<u>email_id</u>	varchar(50)	utf8_general_ci		No	None	customer mail id

Table 3.6 – Customer\_details

## **CHAPTER 4**

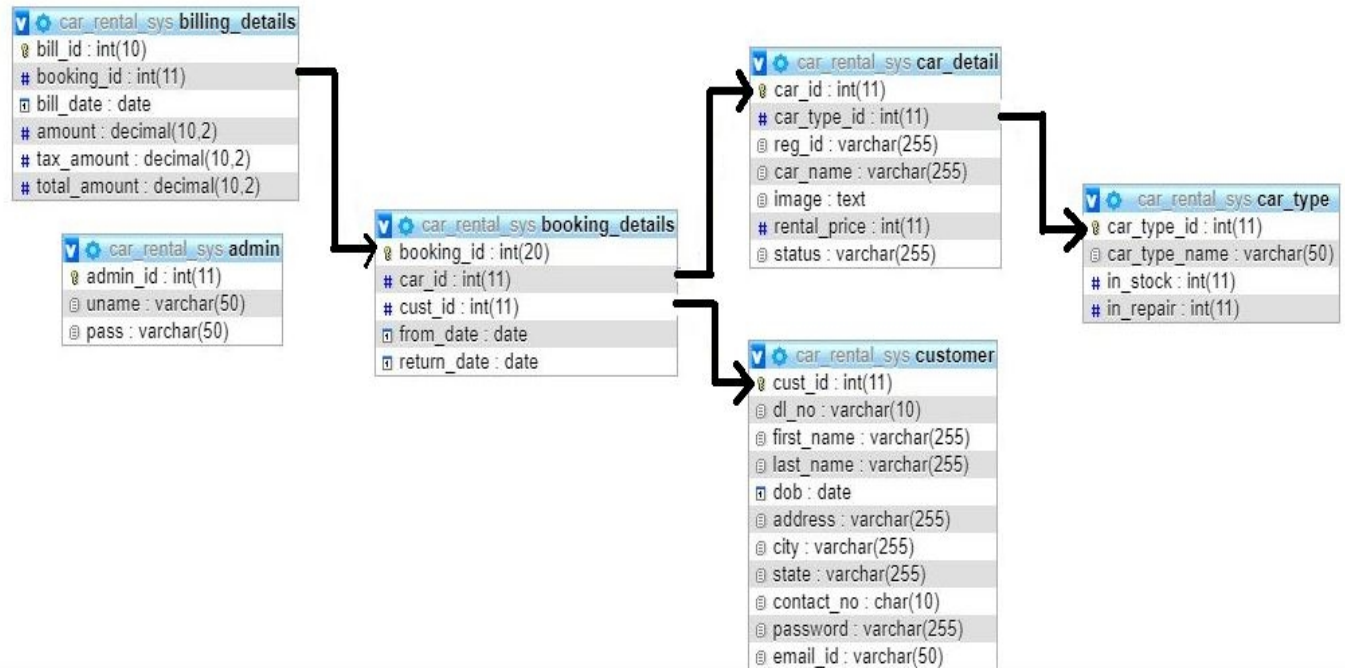
# **SYSTEM DESIGN**

### **.1 ER Diagram**

An Entity Relationship Diagram is a data modelling technique that graphically illustrates an information systems entity and the relationships between those entites.

## **4.2 Schema Diagram**

A Database Schema is a skeleton structure that represents the logical view of the entire database.



## 4.3 Normal Form

### 4.3.1 First Normal Form (1NF)

Database is in first normal form, if and only if the following conditions are satisfied,

1. Contains only atomic values.
2. There are no repeating groups.

### 4.3.2 Second Normal Form (2NF)

A relation schema R is in 2NF, if and only if the following conditions are satisfied,

1. R is in 1NF.
2. All non-key attributes are fully functionally dependent on primary key.

### 4.3.2 Third Normal Form (3NF)

A Relation schema R is in 3NF if and only if the following conditions are satisfied,

1. R is in 2NF.
2. There are no transitive functional dependencies.

All the tables in Online New Portal System satisfy all the three normal forms.

## CHAPTER 4

# IMPLEMENTATION

### 5.1 Introduction to software used

Xampp server is used for Implementing HTML, CSS and Tomcat Apache server. Brackets Web Editor is used for developing the pages. My SQL server is used for the database and is used to manage the server and create the database

#### 5.1.1 Xampp

XAMPP is a software distribution which provides the Apache web server, MySQL database (actually MariaDB), Php and Perl (as command-line executables and Apache modules) all in one package. It is available for Windows, MAC and Linux systems. No configuration is necessary to integrate Php with MySQL.

#### 5.1.2 Brackets

Brackets, unlocks potential for multitudes of developers to bring in support for languages such as PHP, Python, and more. And enable features such as code completion, diagnostic, jump to definition and more. When writing PHP code in Brackets, you can take advantage of code hinting, function parameter hinting, jump to definition, document and project wide symbols, find references and diagnostic.

### 5.1.3 MySQL

MySQL is an Oracle-backed open source relational database management system based on Structured Query Language MySQL is based on a client-server model. The core of MySQL is MySQL server which handles all of the database instructions. MySQL server is available as a separate program for use in a client-server networked environment SQL to supports a number of client and utility programs, command-line programs and administration tools such as MySQL Workbench.

## 5.1 Source code

### Index.php

```
<html>
<head>
<title>Main Page</title>
<meta charset="utf-8">
<link rel="stylesheet" type="text/css" href="w3.css"><link rel="stylesheet" type="text/css"
href="css/reset.css">
<link rel="stylesheet" type="text/css" href="css/main.css">
<script type="text/javascript" src="js/main.js"></script>
<style>
header {
background-image: url("cara.jpg");
}</style></head><body>
<div class="w3-top">
<div class="w3-bar w3-teal w3-card w3-large">
<a href="#" class="w3-bar-item w3-button w3-red w3-mobile"><i class="w3-margin-
right"></i>Car Rental System</a>
```

```

<a href="viewcar1.php" class="w3-bar-item w3-button">Cars & Pricing Info</a><a
href="adminlogin.php" class="w3-bar-item w3-button w3-right w3-grey">Admin
Login</a></div></div>

<header class="w3-container w3-red w3-center" style="padding:85px 16px">
<p class="w3-xxlarge">Rent Cars at low Prices</p>
<p class="w3-medium">If you are a new user, click Register. Else Please login to visit your
profile.</p><br><br><br><br><br><br><br>
<a href="register.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top
">Register</a>
<a href="userlogin.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top
">User login</a>
</header>
<div class="w3-teal" style="padding:20px 16px">
<p class="w3-center">Mini Project DBMS(MANCHALA
ANUDEEP,1MJ17CS094)</p></div></body></html>

```

## adminpage.php

```

<html>
<title>Admin Panel</title>
<meta charset="UTF-8">
<link rel="stylesheet" type="text/css" href="w3.css">
<body class="w3-content" style="max-width:1200px">
<br><br><br><br><br>
<marquee><h3>Welcome Admin...</h3><h4>Please select options from
below.</h4></marquee>
<header class="w3-container w3-center" style="padding:100px 100px">
<div class="w3-top">
<div class="w3-bar w3-teal w3-card w3-large">
<a href="index.php" class="3-button w3-red w3-padding-large w3-large w3-left">
logout</a>
</div></div>
<a href="addcar.php" class="3-button w3-red w3-padding-large w3-large w3-margin-
top">Delete car</a>

```

```
<a href="addcar1.php" class="3-button w3-red w3-padding-large w3-large w3-margin-top">Add car</a>
<a href="updatecar.php" class="3-button w3-red w3-padding-large w3-large w3-margin-top">Update car info</a>
<br><br>
<a href="viewcust.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">View All Customers</a>
<br><br>
<a href="viewcar.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">View All Cars</a>
<br><br>
<a href="booking_details.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">View Booking details</a>
<br> <br> <a href="revcarid.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Revenue details (by Car ID)</a>
<br><br><a href="revcartype.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Revenue details (by Car types)</a>
<br><br><a href="stockdetails.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Stock details</a>
<br> <br><a href="custbook.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Customer + rented details</a>
<br> <br> <a href="freq.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Frequently booked car</a>
</header>
<div class="w3-black w3-center w3-padding-24">MANCHALA ANUDEEP|
1MJ17CS094</div></div>
```

## Adminlogin.php

```
<html><head>
<title>Admin login</title>
<meta charset="utf-8">
<link rel="stylesheet" type="text/css" href="w3.css">
</head><body><div class="w3-top">
<div class="w3-bar w3-teal w3-card w3-large">
```



```
<a href="index.php" class="w3-bar-item w-button w3-mobile"><i class="fa fa-bed w3-  
margin-right"></i>Vehicle Rental System</a></div></div>  
<div class="w3-row-padding w3-padding-64 w3-container">  
<div class="w3-content">  
<div class="w3-twothird">  
<form method="post">  
<input class="w3-input" type="text" placeholder="username" required name="uname">  
<input class="w3-input w3-section" type="password" placeholder="password" required  
name="pass">  
<button class="w3-button w3-black w3-section" type="login" name="login">login</button>  
</form>    <?php  
if(isset($_POST['login'])) {  
include 'setup.php';  
$uname = $_POST['uname'];  
$pass = $_POST['pass'];  
$sql = "SELECT * FROM admin WHERE uname = '$uname' AND pass = '$pass'";  
$result = mysqli_query($conn, $sql);  
$num = mysqli_num_rows($result);  
$rows = mysqli_fetch_assoc($result);  
if($num > 0) {  
session_start();  
$_SESSION['uname'] = $rows['uname'];  
$_SESSION['pass'] = $rows['pass'];  
echo "<script type = \"text/javascript\">  
alert(\"Login Successful...\");  
window.location = (\"adminpage.html\")  
</script>";  
}  
else {  
echo "<script type = \"text/javascript\">  
alert(\"Login Failed. Try Again...\");  
window.location = (\"adminlogin.php\")  
</script>";
```

```

}
}
?>
</div> </div></div>
<footer class="w3-container w3-teal w3-card w3-margin-top">
<p class="w3-center">MANCHALA ANUDEEP |
1MJ17CS094</p></footer></body></html>

```

### addcar1.php

```

<?php<html>
<title>Admin Panel</title>
<meta charset="UTF-8">
<link rel="stylesheet" type="text/css" href="w3.css">
<body class="w3-content" style="max-width:1200px">
<br><br><br><br><br><marquee><h3>Welcome Admin...</h3><h4>Please select options
from below.</h4></marquee>
<header class="w3-container w3-center" style="padding:100px 100px">
<div class="w3-top"><div class="w3-bar w3-teal w3-card w3-large">
<a href="index.php" class="3-button w3-red w3-padding-large w3-large w3-left">
logout</a></div></div>
<a href="addcar.php" class="3-button w3-red w3-padding-large w3-large w3-margin-
top">Delete car</a>
<a href="addcar1.php" class="3-button w3-red w3-padding-large w3-large w3-margin-
top">Add car</a>
<a href="updatecar.php" class="3-button w3-red w3-padding-large w3-large w3-margin-
top">Update car info</a>
<br><br>
<a href="viewcust.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">View All Customers</a>
<br><br>
<a href="viewcar.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">View All Cars</a>
<br><br>

```

```
<a href="booking_details.php" class="3-button w3-teal w3-padding-large w3-large w3-
margin-top">View Booking details</a>
<br> <br> <a href="revcarid.php" class="3-button w3-teal w3-padding-large w3-large w3-
margin-top">Revenue details (by Car ID)</a>
<br><br><a href="revcartype.php" class="3-button w3-teal w3-padding-large w3-large w3-
margin-top">Revenue details (by Car types)</a>
<br><br><a href="stockdetails.php" class="3-button w3-teal w3-padding-large w3-large w3-
margin-top">Stock details</a>
<br> <br><a href="custbook.php" class="3-button w3-teal w3-padding-large w3-large w3-
margin-top">Customer + rented details</a>
<br> <br> <a href="freq.php" class="3-button w3-teal w3-padding-large w3-large w3-
margin-top">Frequently booked car</a>
</header>
<div class="w3-black w3-center w3-padding-24">MANCHALA ANUDEEP|
1MJ17094</div></div></body></html>
```

## deletecar.php

```
<html>
<title>Admin Panel</title>
<meta charset="UTF-8">
<link rel="stylesheet" type="text/css" href="w3.css">
<body class="w3-content" style="max-width:1200px">
<div class="w3-row-padding w3-light-grey w3-padding-64 w3-container" style="margin-
left:16%">
<h3 class="w3-center">Welcome admin...</h3>
<header class="w3-container w3-center" style="padding:100px 100px">
<a href="index.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Home</a>
<a href="adminpage.html" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Admin Home</a>
<a href="addcar.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Update car</a>
</header> <br><br>
<div class="w3-content"> <div class="w3-twothird">
```

```

<form method="POST" >
Select Car type to update: <select name = "car_type">
<option>Economy</option>
<option>Standard</option>
<option>Premium</option>
<option>SUV</option>
</select><br><br>
Enter car ID: <input type="text" name="car_id"/><br><br>
<input type="submit" name="submit1" value="delete">
<?php
error_reporting(E_ERROR | E_WARNING | E_PARSE);
include 'setup.php';
$car_id=$_POST["car_id"];
$car_type=$_POST["car_type"];
$qry = "DELETE FROM car_detail WHERE car_id='$car_id'";
$result=mysqli_query($conn, $qry);
if($result){
echo "please enter value and click submit ";
} else {
echo "please enter details and click submit.<br>";
}      mysqli_close($conn);
error_reporting(E_ERROR | E_WARNING | E_PARSE);
?></form></div></div></div></body></html>

```

### updatecar.php

```

<?p<html>
<title>Admin Panel</title>
<meta charset="UTF-8">
<link rel="stylesheet" type="text/css" href="w3.css">
<body class="w3-content" style="max-width:1200px"><div class="w3-row-padding w3-
light-grey w3-padding-64 w3-container" style="margin-left:16%">
<h3 class="w3-center">Welcome admin...</h3>
<header class="w3-container w3-center" style="padding:100px 100px">

```

```

<a href="index.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Home</a>
<a href="adminpage.html" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Admin Home</a>
<a href="addcar.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Delete Car</a>
</header> <br><br>
<div class="w3-content"><div class="w3-twothird">
<form method="POST" >
Select Car type to update: <select name = "car_type">
<option>Economy</option>
<option>Standard</option>
<option>Premium</option>
<option>SUV</option>
</select><br><br>
Enter car ID: <input type="text" name="car_id"/><br><br>
New Daily Rate: <input type="text" name="rental_price"/><br><br>
<input type="submit" name="submit1" value="Update">
<?php
error_reporting(E_ERROR | E_WARNING | E_PARSE);
    include 'setup.php';
$car_id=$_POST["car_id"];
$rental_price=$_POST["rental_price"];
$car_type=$_POST["car_type"];
$qry = "UPDATE car_detail SET rental_price=$rental_price WHERE car_id='$car_id'";
$result=mysqli_query($conn, $qry);
if($result){
echo "Car rate updated successfully. ";
} else {
echo "please enter details and click submit.<br>";
} mysqli_close($conn);
error_reporting(E_ERROR | E_WARNING | E_PARSE);    ?>
</form> </div> </div></div>

```

```
<div class="w3-black w3-center w3-padding-24">MANCHALA ANUDEEP|
1MJ17CS094</div></div></body></html>
```

## booking\_details.php

```
<html>
<title>Admin Panel</title>
<meta charset="UTF-8">
<link rel="stylesheet" type="text/css" href="w3.css">
<body class="w3-content" style="max-width:1200px">
<div class="w3-row-padding w3-light-grey w3-padding-64 w3-container" style="margin-
left:16%">
<h3 class="w3-center">Welcome admin...</h3>
<header class="w3-container w3-center" style="padding:100px 100px">
<a href="index.php" class="w3-button w3-teal w3-padding-large w3-large w3-margin-
top">Home</a>
<a href="adminpage.html" class="w3-button w3-teal w3-padding-large w3-large w3-margin-
top">Admin Home</a>
<a href="addcar.php" class="w3-button w3-teal w3-padding-large w3-large w3-margin-
top">Delete Car</a>
<a href="updatecar.php" class="w3-button w3-teal w3-padding-large w3-large w3-margin-
top">Update car info</a>
<div class="w3-content">
<div class="w3-twothird"> <h4>Booking details</h4>
<?php
include 'setup.php';
$sql = "SELECT * FROM booking_details";
$result = mysqli_query($conn, $sql);
echo "<table class='w3-table w3-bordered'>";
echo'<th>Booking ID</th><th>Car ID</th><th>Customer ID</th><th>From
date</th><th>Return date</th>';
while($data = mysqli_fetch_array($result))
{
echo'<tr>';
```

```
echo
'<td>'.$data['booking_id'].'</td><td>'.$data['car_id'].'</td><td>'.$data['cust_id'].'</td><td>'.$
data['from_date'].'</td><td>'.$data['return_date'].'</td>';
echo'</tr>';
}
echo "</table>"; ?></div></div>
</div> <div class="w3-black w3-center w3-padding-24">MANCHALA ANUDEEP |
1MJ17CS094</div>
</div></body></html>
```

### custbook.php

```
<html>
<title>Admin Panel</title>
<meta charset="UTF-8">
<link rel="stylesheet" type="text/css" href="w3.css">
<body class="w3-content" style="max-width:1200px">
<div class="w3-row-padding w3-light-grey w3-padding-64 w3-container" style="margin-
left:16%">
<h3 class="w3-center">Welcome admin...</h3>
<header class="w3-container w3-center" style="padding:100px 100px">
<a href="index.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Home</a>
<a href="adminpage.html" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Admin Home</a>
<a href="addcar.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Delete Car</a>
<a href="updatecar.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Update car info</a>
<br>
<br>
<div class="w3-content">
<div class="w3-twothird"><h4>List of all those customers who have booked any Car</h4>
<?php
include 'setup.php';
```

```

$sql      =      "SELECT      *      FROM      `customer`,`booking_details`      WHERE
`customer`.`cust_id`=`booking_details`.`cust_id`;
$result = mysqli_query($conn, $sql);
echo "<table class='w3-table w3-bordered'>";
echo'<th>Cust      ID</th><th>DL      NO.</th><th>First      name</th><th>Last
name</th><th>Booking ID</th><th>Car ID</th>';
while($data = mysqli_fetch_array($result))
{
echo'<tr>';
echo
'<td>'.$data['cust_id'].'</td><td>'.$data['dl_no'].'</td><td>'.$data['first_name'].'</td><td>'.$d
ata['last_name'].'</td><td>'.$data['booking_id'].'</td><td>'.$data['car_id'].'</td>';
echo'</tr>';
}
echo "</table>";
?></div></div></div>
<div class="w3-black w3-center w3-padding-24">MANCHALA ANUDEEP |
1MJ17CS094</div></div>
</body></html>

```

## freq.php

```

<html><title>Admin Panel</title>
<meta charset="UTF-8">
<link rel="stylesheet" type="text/css" href="w3.css">
<body class="w3-content" style="max-width:1200px">
<div class="w3-row-padding w3-light-grey w3-padding-64 w3-container" style="margin-
left:16%">
<h3 class="w3-center">Welcome Admin...</h3>
<header class="w3-container w3-center" style="padding:100px 100px">
<a href="index.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Home</a>
<a href="adminpage.html" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Admin Home</a>

```



```

<a href="addcar.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Delete Car</a>
<a href="updatecar.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Update car info</a>
<br><br>
<div class="w3-content"><div class="w3-twothird">
<h4>List of Frequently booked cars</h4> <?php
include 'setup.php';
$qry = "SELECT car_id, COUNT(*) AS freq FROM booking_details GROUP BY car_id
ORDER BY 2 DESC ";
$result = mysqli_query($conn, $qry);
echo "<table class='w3-table w3-bordered'>";
echo'<th>Car ID</th><th>Booking Count</th>';
while($data = mysqli_fetch_array($result))
{echo'<tr>';
echo '<td>'. $data['car_id']. '</td><td>'. $data['freq']. '</td>';
echo'</tr>';
}echo "</table>"; ?></div> </div>
</div> <div class="w3-black w3-center w3-padding-24">MANCHALA ANUDEEP|
1MJ17CS094</div></div> </body></html>

```

### stockdetails.php

```

<html><title>Admin Panel</title>
<meta charset="UTF-8">
<link rel="stylesheet" type="text/css" href="w3.css">
<body class="w3-content" style="max-width:1200px">
<div class="w3-row-padding w3-light-grey w3-padding-64 w3-container" style="margin-left:16%">
<h3 class="w3-center">Welcome admin...</h3>
<header class="w3-container w3-center" style="padding:100px 100px">
<a href="index.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Home</a>

```

```
<a href="adminpage.html" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Admin Home</a>
<a href="addcar.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Delete Car</a>
<a href="updatecar.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Update car info</a>
<br>
<br>
<div class="w3-content">
<div class="w3-twothird">
<h2>Stock details</h2>
<?php
include 'setup.php';
$sql = "SELECT * FROM car_type";
$result = mysqli_query($conn, $sql);
echo "<table class='w3-table w3-bordered'>";
echo'<th>Car Type ID</th><th>Car Type name</th><th>In Stock (Units)</th><th>In
Repair (Units)</th>';
while($data = mysqli_fetch_array($result))
{
echo'<tr>';
echo
'<td>'.$data['car_type_id'].'</td><td>'.$data['car_type_name'].'</td><td>'.$data['in_stock'].'</
td><td>'.$data['in_repair'].'</td>';
echo'</tr>';
}
echo "</table>";
?> </div> </div>
</div> <div class="w3-black w3-center w3-padding-24">MANCHALA ANUDEEP|
1MJ17CS094</div></div>
</body>
</html>
```

**viewcust.php**

```

<html><title>Admin Panel</title>
<meta charset="UTF-8">
<link rel="stylesheet" type="text/css" href="w3.css">
<body class="w3-content" style="max-width:1200px">
<div class="w3-row-padding w3-light-grey w3-padding-64 w3-container" style="margin-left:16%">
<h3 class="w3-center">Welcome admin...</h3>
<header class="w3-container w3-center" style="padding:100px 100px">
<a href="index.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Home</a>
<a href="adminpage.html" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Admin Home</a>
<a href="addcar.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Delete Car</a>
<a href="updatecar.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-top">Update car info</a>
</header>
<div class="w3-content">
<div class="w3-twothird"><h4>List of Customers</h4>
<?php
include 'setup.php';
$sql = "SELECT * FROM customer";
$result = mysqli_query($conn, $sql);
echo "<table class='w3-table w3-bordered'>";
echo'<th>Cust          ID</th><th>DL          no.</th><th>First          name</th><th>Last
name</th><th>DOB</th><th>Address</th><th>City</th><th>State</th><th>Contact
no.</th><th>Email ID</th>';
while($data = mysqli_fetch_array($result))
{echo'<tr>';
echo
'<td>'.$data['cust_id'].'</td><td>'.$data['dl_no'].'</td><td>'.$data['first_name'].'</td><td>'.$data['last_name'].'</td><td>'.$data['dob'].'</td><td>'.$data['address'].'</td><td>'.$data['city'].'</td><td>'.$data['state'].'</td><td>'.$data['contact_no'].'</td><td>'.$data['email_id'].'</td>';

```

```

echo'</tr>';
}    echo "</table>";
?> </div> </div>

</div>    <div class="w3-black w3-center w3-padding-24">MANCHALA  ANUDEEP|
1MJ17CS094</div></div></body></html>

```

## revcarid.php

```

<html><title>Admin Panel</title>

<meta charset="UTF-8"><link rel="stylesheet" type="text/css" href="w3.css">

<body class="w3-content" style="max-width:1200px"><div class="w3-row-padding w3-
light-grey w3-padding-64 w3-container" style="margin-left:16%">

<h3 class="w3-center">Welcome admin...</h3><header class="w3-container w3-center"
style="padding:100px 100px">

<a href="index.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Home</a>

<a href="adminpage.html" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Admin Home</a>

<a href="addcar.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Delete Car</a>

<a href="updatecar.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Update car info</a <br><br><br>

<div class="w3-content">

<div class="w3-twothird">    <form method="POST" >

Enter car ID : <input type="text" name="car_id"/><br>

<input type="submit" name="submit" value="submit">

<?php
if(isset($_POST['submit'])) {
include 'setup.php';
$car_id = $_POST['car_id'];
$sql    =    "SELECT      *      FROM      `billing_details`,`booking_details`      WHERE
`billing_details`.booking_id=`booking_details`.booking_id AND car_id='$car_id'";
$result = mysqli_query($conn, $sql);
echo "<table class='w3-table w3-bordered'>";

```

```

echo'<th>Car          ID</th><th>Booking          ID</th><th>Bill          ID</th><th>Bill
date</th><th>Amount</th><th>Tax Amount</th><th>Total Amount</th>';
while($data = mysqli_fetch_array($result))
{echo'<tr>';
echo'<td>'.$data['car_id'].'</td><td>'.$data['booking_id'].'</td><td>'.$data['bill_id'].'</td><td>
'.$data['bill_date'].'</td><td>'.$data['amount'].'</td><td>'.$data['tax_amount'].'</td><td>'.$
data['total_amount'].'</td>';
echo'</tr>';
} echo "</table>";} ?> </form>
</div> </div>
</div> <div class="w3-black w3-center w3-padding-24">MANCHALA ANUDEEP|
1MJ17CS094</div></div></body></html>

```

## register.php

```

<html><head><title>Register</title>
<meta charset="utf-8">
<link rel="stylesheet" type="text/css" href="w3.css"></head><body>
<div class="w3-top">
<div class="w3-bar w3-teal w3-card w3-large">
<a href="index.php" class="w3-bar-item 3-button w3-mobile"><i class="fa fa-bed w3-
margin-right"></i>Vehicle Rental System</a></div>
</div><div class="w3-row-padding w3-padding-64 w3-container">
<div class="w3-content"> <div class="w3-twothird">
<form method="POST" >
<input class="w3-input" type="text" placeholder="Driving licence Number" required
name="dl_no">
<input class="w3-input" type="text" placeholder="First Name" required
name="first_name">
<input class="w3-input" type="text" placeholder="Last Name" required name="last_name">
<input class="w3-input" type="text" placeholder="Date of Birth(yyyy-mm-dd)" required
name="dob">
<input class="w3-input" type="text" placeholder="Address" required name="address">
<input class="w3-input" type="text" placeholder="City" required name="city">
<input class="w3-input" type="text" placeholder="State" required name="state">

```

```
<input class="w3-input" type="text" placeholder="Contact Number" required
name="contact_no">
<input class="w3-input " type="text" placeholder="Choose Your Password" required
name="password">
<input class="w3-input " type="text" placeholder="Enter email" required name="email_id">
<button class="3-button w3-black w3-section" type="submit"
name="submit">SUBMIT</button>
<?php
if(isset($_POST['submit'])) {
include 'setup.php';
$dl_no = $_POST['dl_no'];
$first_name = $_POST['first_name'];
$last_name = $_POST['last_name'];
$dob = $_POST['dob'];
$address= $_POST['address'];
$city = $_POST['city'];
$state = $_POST['state'];
$contact_no = $_POST['contact_no'];
$password = $_POST['password'];
$email_id = $_POST['email_id'];
$qry="INSERT INTO
customer(dl_no,first_name,last_name,dob,address,city,state,contact_no,password,email_id)
VALUES('$dl_no','$first_name','$last_name','$dob','$address','$city','$state','$contact_no','$p
assword','$email_id')";
$result=mysqli_query($conn, $qry);
if($result){
$last_id = mysqli_insert_id($conn);
echo "New record created successfully. Your customer ID is: " . $last_id;
} else {
echo "please enter details and click submit.<br>";
echo "Error: " . $sql . "<br>" . mysqli_error($conn);
} mysqli_close($conn);
}
```

```
?>
</form>      </div></div></div>
<footer class="w3-container w3-teal w3-card w3-margin-top">
<p class="w3-center">MANCHALA ANUDEEP| 1MJ17CS094</p></footer>
</body></html>
```

### userlogin.php

```
<html><head><title>Register</title><meta charset="utf-8">
<link rel="stylesheet" type="text/css" href="w3.css">
</head><body>
<div class="w3-top">
<div class="w3-bar w3-teal w3-card w3-large">
<a href="index.php" class="w3-bar-item 3-button w3-mobile"><i class="fa fa-bed w3-
margin-right"></i>Vehicle Rental System</a>
</div></div>
<div class="w3-row-padding w3-padding-64 w3-container">
<div class="w3-content">
<div class="w3-twothird">
<form method="post">
<input class="w3-input" type="text" placeholder="contact number" required
name="contact_no">
<input class="w3-input w3-section" type="password" placeholder="password" required
name="password">
<button class="3-button w3-black w3-section" type="login" name="login">login</button>
</form>
<?php
if(isset($_POST['login'])){
include 'setup.php';
$contact_no = $_POST['contact_no'];
$password = $_POST['password'];
$sql = "SELECT * FROM customer WHERE contact_no = '$contact_no' AND password =
$password";
$result = mysqli_query($conn, $sql);
$num = mysqli_num_rows($result);
```

```

$rows = mysqli_fetch_assoc($result);
if($num > 0){
    session_start();
    $_SESSION['contact_no'] = $rows['contact_no'];
    $_SESSION['password'] = $rows['password'];
    $id=$rows['cust_id'];
    echo "<script type = \"text/javascript\">
    alert(\"Login Successful...\");
    window.location = (\"profile.php?id=$id\")
    </script>";
}
else {
    echo "<script type = \"text/javascript\">
    alert(\"Login Failed. Try Again....\");
    window.location = (\"userlogin.php\")
    </script>";
}
}
?></div></div></div>
<footer class="w3-container w3-teal w3-card w3-margin-top">
<p class="w3-center">MANCHALA ANUDEEP |
1MJ17CS094</p></footer></body></html>

```

### profile.php

```

<?php
include 'setup.php';
$sql = "SELECT * FROM customer WHERE cust_id = '$_GET[id]'";
$result = mysqli_query($conn, $sql);
while($data = mysqli_fetch_array($result)){ ?>
<!DOCTYPE html>
<html><title>User profile</title><meta charset="UTF-8">
<link rel="stylesheet" type="text/css" href="w3.css">
<body class="w3-content" style="max-width:1200px">

```



```

<marquee><h3><?php echo 'Welcome '.$data['first_name'];?></h3><h4>Please select
options from below.</h4></marquee>
<div class="w3-row-padding w3-light-grey w3-padding-64 w3-container" style="margin-
left:16%"> <div class="w3-content">
<header class="w3-container w3-center" style="padding:85px 16px">
<a href="index.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Home</a>
<a href="carlist.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Book a car</a>
<a href="returncar.php" class="3-button w3-teal w3-padding-large w3-large w3-margin-
top">Return car</a>
</header> <div class="w3-twothird">
<h4>Booking history</h4>
<?php
include 'setup.php';
$sql = "SELECT * FROM booking_details where cust_id='$_GET[id]'";
$result = mysqli_query($conn, $sql);
echo "<table class='w3-table w3-bordered'>";
echo'<th>Booking ID</th><th>Car ID</th><th>CUST ID</th><th>FROM
DATE</th><th>Return DATE</th>';
while($data = mysqli_fetch_array($result) {
echo'<tr>';
echo
'<td>'.$data['booking_id'].'</td><td>'.$data['car_id'].'</td><td>'.$data['cust_id'].'</td><td>'.$
data['from_date'].'</td><td>'.$data['return_date'].'</td>';
echo'</tr>'; }
echo "</table>";
?> </div> </div></div><div class=" w3-center w3-padding-24">MANCHALA ANUDEEP |
1MJ17CS094</div>
</div>
</body>
</html>

```

**carlist.php**

```

<html><head>
<title>Main Page</title>
<meta charset="utf-8">
<link rel="stylesheet" type="text/css" href="w3.css"><link rel="stylesheet" type="text/css"
href="css/reset.css">
<link rel="stylesheet" type="text/css" href="css/main.css">
<script type="text/javascript" src="js/main.js"></script>
</head><body>
<div class="w3-top"><div class="w3-bar w3-teal w3-card w3-large">
<a href="index.php" class="w3-bar-item 3-button w3-mobile"><i class="w3-margin-
right"></i>Vehicle Rental System</a>
</div></div>
<header class="w3-container w3-center" style="padding:85px 16px">
<form method="POST" >
Select Car type : <select name = "car_type_name">
<option>Economy</option>
<option>Standard</option>
<option>Premium</option>
<option>SUV</option>
</select><br><br>
<input type="submit" name="submit1" value="Search">
<?php
error_reporting(E_ERROR | E_WARNING | E_PARSE);
include 'setup.php';
$car_type_name=$_POST['car_type_name'];           ?> </form>
</header>
<section class="listings" style="padding:40px 16px">
<div class="wrapper">
<h2>List of Available cars (click for booking.)</h2>
<ul class="properties_list">
<?php

```

```

$sql = "SELECT * FROM car_detail JOIN car_type ON car_detail.car_type_id=
car_type.car_type_id AND car_type_name='$car_type_name' AND status='Available'";
$result = mysqli_query($conn, $sql);
while($data = mysqli_fetch_array($result)){
?> <li>
<a href="rent.php?id=?php echo $data['car_id'] ?>">

</a>
<span class="price"><?php echo '₹ '.$data['rental_price'];?></span>
<div class="property_details">
<h1>
<a href="rent.php?id=?php echo $data['car_id'] ?>"><?php echo 'Car Name :
'.$data['car_name'];?></a>
</h1>
<h2>Car ID: <span class="property_size"><?php echo $data['car_id'];?></span></h2>
<h2>Car Type: <span class="property_size"><?php echo
$data['car_type_name'];?></span></h2></div>
</li>
<?php
}
?> </div>
</section><div class="w3-teal" style="padding:20px 16px">
<p class="w3-center">MANCHALA ANUDEEEP |
1MJ17CS094</p></div></body></html>

```

## rent.php

```

<html>
<head>
<title>Rental Page</title>
<meta charset="utf-8">
<link rel="stylesheet" type="text/css" href="w3.css">
</head>
<body>
<div class="w3-top">

```

```

<div class="w3-bar w3-teal w3-card w3-large">
<a href="index.php" class="w3-bar-item 3-button w3-red w3-mobile"><i class="fa fa-bed
w3-margin-right"></i>Vehicle Rental System</a>
</div>

</div> <div class="w3-container w3-center w3-light-grey " style="padding:40px 0px">
</div><div class="w3-row-padding w3-padding-64 w3-container">
<div class="w3-content"> <div class="w3-twothird">
<form method="POST">
<input class="w3-input" type="text" placeholder="Customer ID" required name="cust_id">
<input class="w3-input w3-section" type="text" placeholder="Car ID" required
name="car_id">
<input class="w3-input w3-section" type="date" placeholder="From date" required
name="from_date">
<button class="3-button w3-black w3-section" type="submit"
name="submit">SUBMIT</button>
<?php
if(isset($_POST['submit'])) {
include 'setup.php';
$car_id = $_POST['car_id'];
$cust_id = $_POST['cust_id'];
$from_date = $_POST['from_date'];
$qry = "INSERT INTO booking_details(car_id, cust_id, from_date)
VALUES('$car_id','$cust_id', '$from_date')";
$result=mysqli_query($conn, $qry);
if($result){
$last_id = mysqli_insert_id($conn);
echo "Booking successfull. Your booking ID is: " . $last_id;
} else {
echo "please enter details and click submit.<br>";
echo "Error: " . $sql . "<br>" . mysqli_error($conn);
}
mysqli_close($conn);
}
?>
</form></div></div></div>

```

```
<footer class="w3-container w3-teal w3-card w3-margin-top">
<p class="w3-center">MANCHALA ANUDEEP|
1MJ17CS094</p></footer></body></html>
```

## returncar.php

```
<html>
<title>User profile</title>
<meta charset="UTF-8">
<link rel="stylesheet" type="text/css" href="w3.css">
<body class="w3-content" style="max-width:1200px">
<header class="w3-container w3-center" style="padding:85px 16px">
<a href="index.php" class="w3-button w3-teal w3-padding-large w3-large w3-margin-top">Home</a>
<a href="carlist.php" class="w3-button w3-teal w3-padding-large w3-large w3-margin-top">Book a car</a>
<a href="returncar.php" class="w3-button w3-teal w3-padding-large w3-large w3-margin-top">Return car</a>
<a href="forgot.php" class="w3-button w3-teal w3-large w3-right">click here for id details</a>
</header>
<div class="w3-row-padding w3-light-grey w3-padding-64 w3-container" style="margin-left:16%">
<h3 class="w3-center">Return car...</h3><br>
<div class="w3-content">
<div class="w3-twothird">
<form method="POST" >
Enter booking ID : <input type="text" name="booking_id"/><br>
Enter car ID : <input type="text" name="car_id"/><br>
Enter Return date: <input type="text" name="return_date"/><br>
<input type="submit" name="submit" value="Return Car">
<?php
error_reporting(E_ERROR | E_WARNING | E_PARSE);
include 'setup.php';
$booking_id = $_POST['booking_id'];
```

```

$car_id = $_POST['car_id'];
$return_date= $_POST['return_date'];
$qry = "UPDATE booking_details SET return_date='$return_date' WHERE
booking_id='$booking_id'";
$result1=mysqli_query($conn, $qry);
if($result1){
echo "";
} else {
echo "please enter details and click submit.<br>"
}
?>
</form>
</div>
<?php
error_reporting(E_ERROR | E_WARNING | E_PARSE);
$sql = "SELECT * FROM billing_details where booking_id='$booking_id'";
$result1 = mysqli_query($conn, $sql);
echo "<table class='w3-table w3-bordered'>";
echo'<th>Bill ID</th><th>Booking ID</th><th>Bill date</th><th>Amount</th><th>Tax
Amount</th><th>Total Amount</th>';
while($data = mysqli_fetch_array($result1))
{
echo'<tr>';
echo
'<td>'.$data['bill_id'].'</td><td>'.$data['booking_id'].'</td><td>'.$data['bill_date'].'</td><td>'.
$data['amount'].'</td><td>'.$data['tax_amount'].'</td><td>'.$data['total_amount'].'</td>';
echo'</tr>';
}
echo "</table>"; ?> </div></div>
<div class="w3-black w3-center w3-padding-24">MANCHALA ANUDEEP |
1MJ17CS094</div></div>
</body></html>
<?php

```

```

error_reporting(E_ERROR | E_WARNING | E_PARSE);
$qry1 = "UPDATE car_detail SET status='Available' WHERE car_id='$car_id'";
mysqli_query($conn, $qry1);
mysqli_close($conn);
?>

```

## forgot.php

```

<html><title></title>
<meta charset="UTF-8">
<link rel="stylesheet" type="text/css" href="w3.css">
<body class="w3-content" style="max-width:1200px">
<div class="w3-row-padding w3-light-grey w3-padding-64 w3-container" style="margin-
left:16%">
<h3 class="w3-center">check for the id with respect to your car name</h3>
<header class="w3-container w3-center" style="padding:100px 100px">
<a href="returncar.php" class="w3-button w3-teal w3-padding-large w3-large w3-margin-
top">return car</a> <div class="w3-content"><div class="w3-twothird"><h4>List of All
cars</h4><?php
error_reporting(E_ERROR | E_WARNING | E_PARSE);
include 'setup.php';
$sql = 'call cardet';
$result = mysqli_query($conn, $sql);
echo "<table class='w3-table w3-bordered'>";
echo'<th>Car ID</th><th>Reg.ID</th><th>Car name</th><th>Car type ID</th><th>Rental
Price</th><th>Status</th>';
while($data = mysqli_fetch_array($result))
{
echo'<tr>';
echo
'<td>'.$data['car_id'].'</td><td>'.$data['reg_id'].'</td><td>'.$data['car_name'].'</td><td>'.$data
['car_type_id'].'</td><td>'.$data['rental_price'].'</td><td>'.$data['status'].'</td>';
echo'</tr>';
}
echo "</table>";

```

```
?> </div> </div></div>
<div class="w3-black w3-center w3-padding-24">MANCHALA ANUDEEP|
1MJ17CS094</div>
</div></body></html>
```

### 5.3 SQL Stored Procedures

#### Cardet

In the car rental system, the most viewed subject on the site will be related to the car details, Hence here a procedure is been implemented where all the details of the car will be displayed With a click, this procedure is been used on both customer as well as on the admin side.

DELIMITER \$\$

CREATE DEFINER='root'@'localhost' PROCEDURE `cardet` () NO SQL

SELECT \* FROM car\_detail\$\$

\$\$DELIMITER ;

### 5.4 SQL Triggers

These triggers were very beneficial for making our rental system more efficient and effective.

#### increment\_in\_stock

This trigger is just opposite of auto\_decrement trigger. It increments the stock by 1 when the customer returns the car in agency. The in\_stock attribute is incremented as soon as car is returned back i.e. now the car is available for another booking and can be seen in the car list page.

DELIMITER \$\$

CREATE TRIGGER `increment\_in\_stock` AFTER INSERT ON `billing\_details` FOR EACH ROW UPDATE car\_type SET in\_stock=(in\_stock)+1 WHERE car\_type\_id=(SELECT car\_type\_id FROM car\_detail, booking\_details WHERE car\_detail.car\_id=booking\_details.car\_id AND booking\_id=new.booking\_id)

\$\$DELIMITER ;



**auto\_bill\_generate**

This trigger generates the bill for taking the car on rent automatically as soon as customer enters the return\_date on which he/she is returning the car to the agency. Customer initially fills only the from\_date and other details while booking.

DELIMITER \$\$

```
CREATE TRIGGER `auto_bill_generate` AFTER UPDATE ON `booking_details` FOR
EACH ROW INSERT INTO billing_details SET
booking_id=old.booking_id,bill_date=new.return_date,amount=(datediff(new.return_date,
old.from_date))*(SELECT rental_price FROM car_detail WHERE
car_id=old.car_id),tax_amount=(amount * 0.1),total_amount=amount+tax_amount
$$DELIMITER ;
```

**decrement\_in\_stock**

This trigger decrements the no of cars in current stock by 1 as soon as the customer books any one the car. In the car\_type table the in\_stock attribute automatically gets decremented as the car is booked, showing that now the car is unavailable in agency.

DELIMITER \$\$

```
CREATE TRIGGER `decrement_in_stock` AFTER INSERT ON `booking_details` FOR
EACH ROW UPDATE car_type
SET in_stock=(in_stock)-1
WHERE car_type_id=(SELECT car_type_id FROM car_detail, booking_details WHERE
car_detail.car_id=booking_details.car_id AND booking_id=new.booking_id)
$$DELIMITER ;
```

**CHAPTER 6**

## SCREENSHOTS

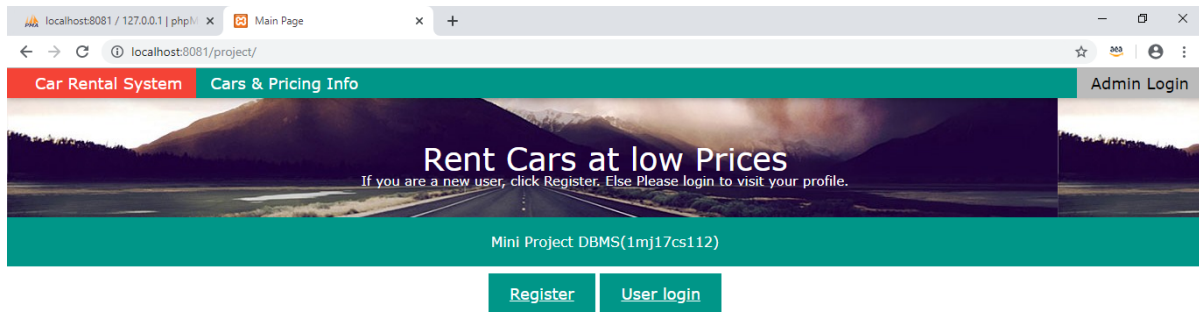


Figure 6.1 – Home Page

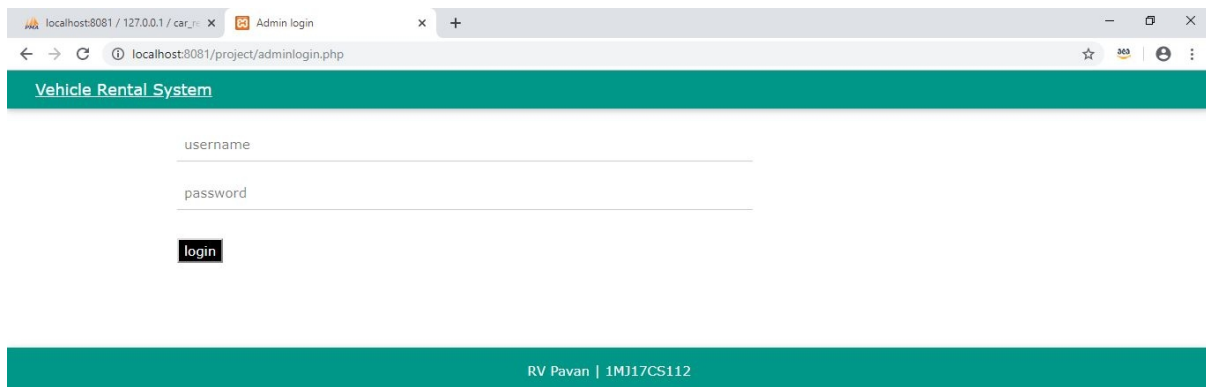


Figure 6.2 –Admin login Page

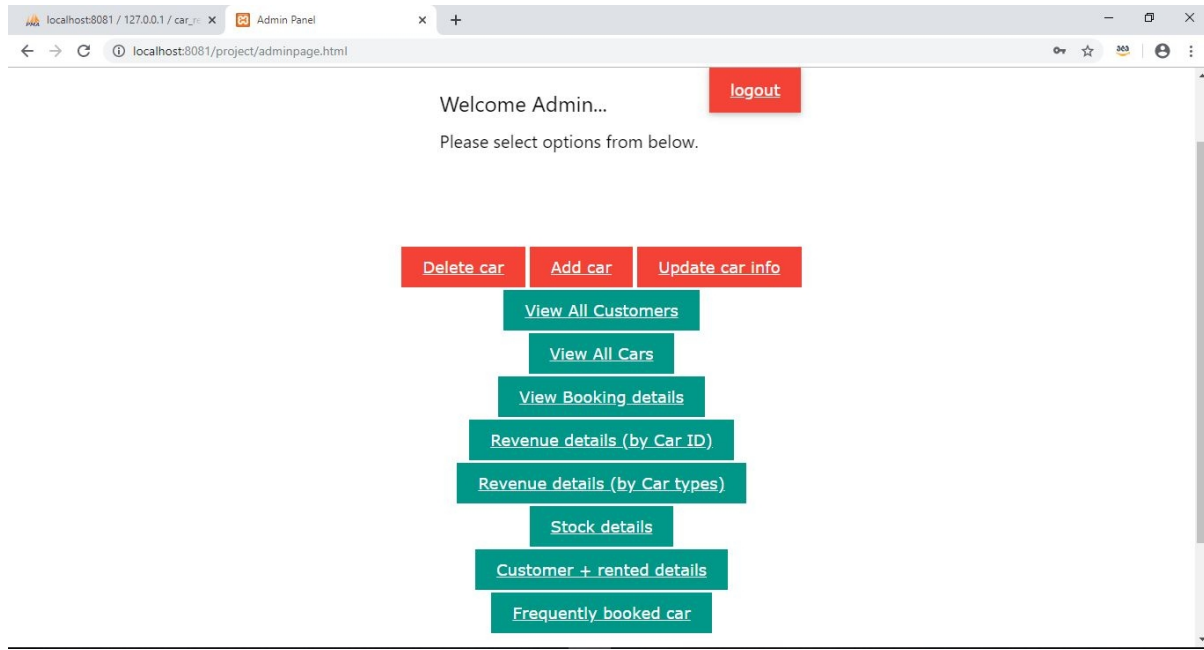


Figure 6.3 – Admin home Page

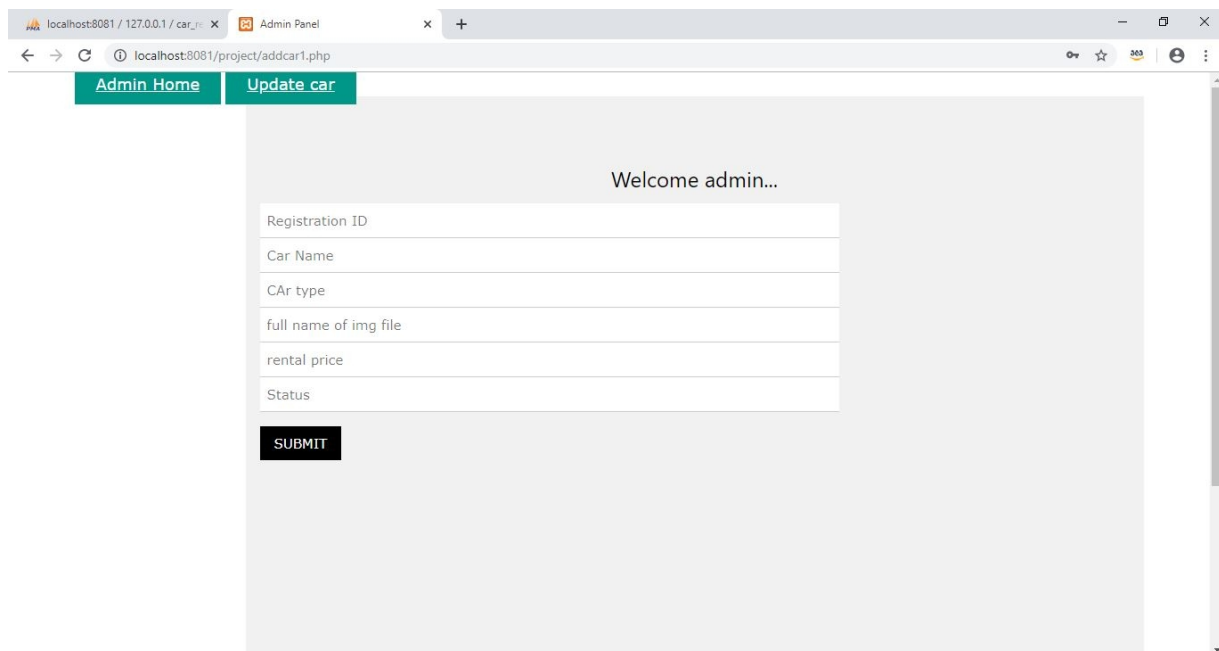


Figure 6.4 – Add car

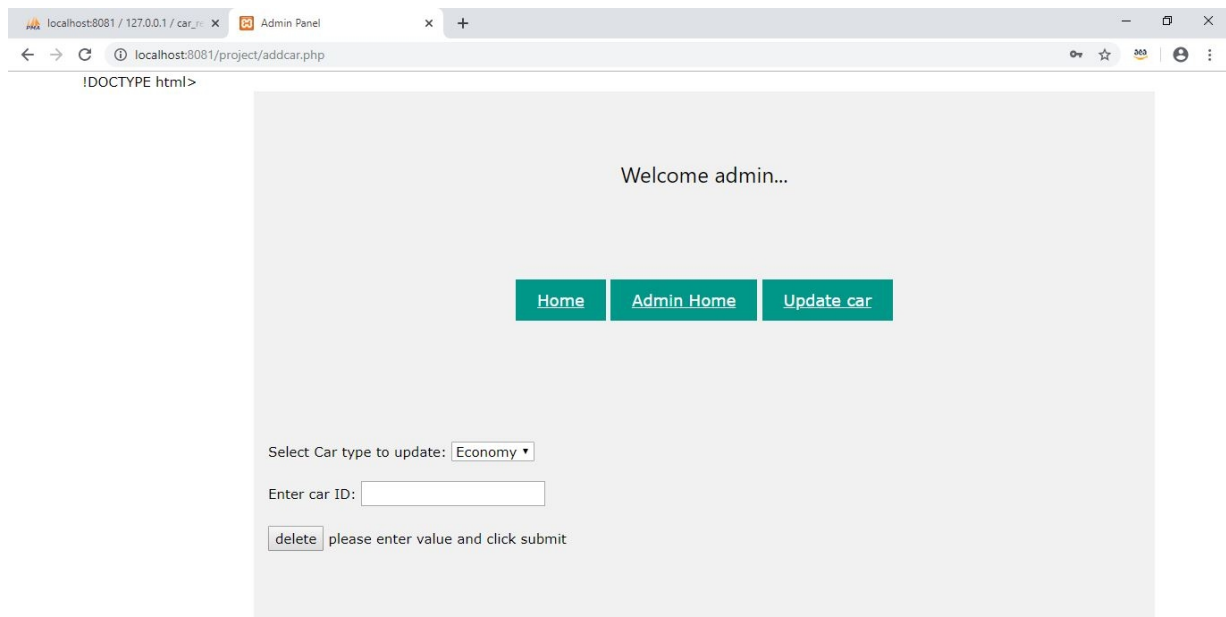


Figure 6.5 – Delete car

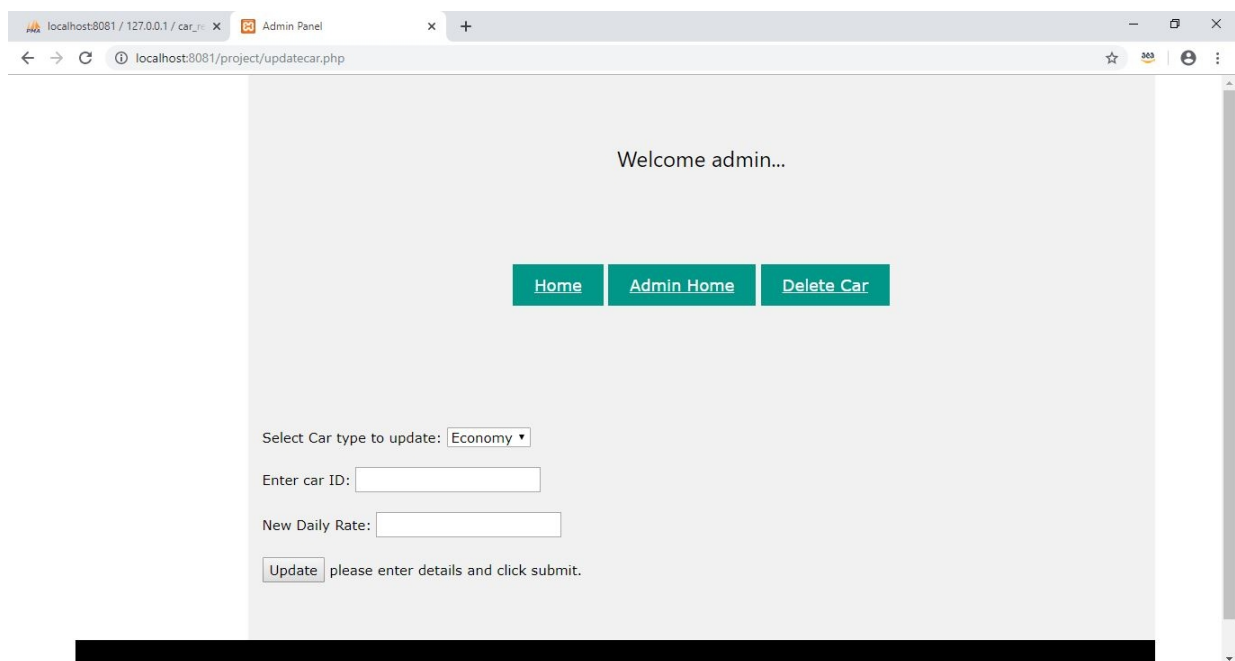
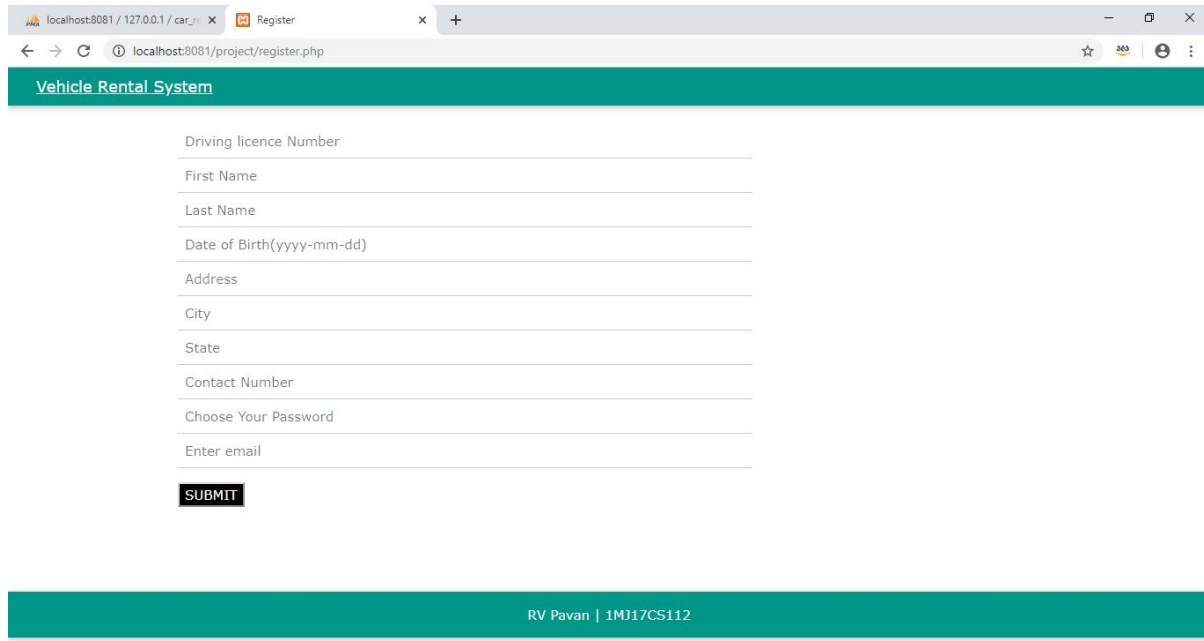
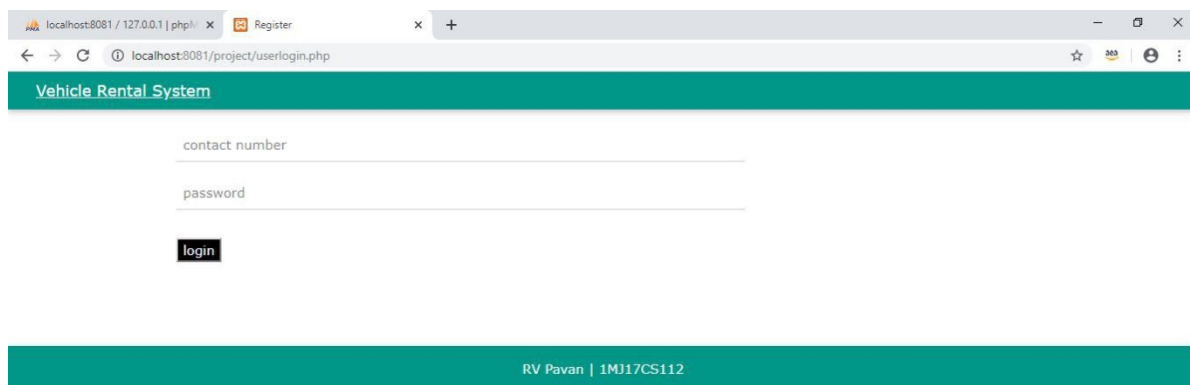


Figure 6.6 – Update car(admin)



The screenshot shows a web browser window with the address bar displaying 'localhost:8081/project/register.php'. The page title is 'Vehicle Rental System'. The form contains the following fields: 'Driving licence Number', 'First Name', 'Last Name', 'Date of Birth(yyyy-mm-dd)', 'Address', 'City', 'State', 'Contact Number', 'Choose Your Password', and 'Enter email'. A 'SUBMIT' button is located at the bottom of the form. The footer of the page displays 'RV Pavan | 1MJ17CS112'.

Figure 6.7 – User Register



The screenshot shows a web browser window with the address bar displaying 'localhost:8081/project/userlogin.php'. The page title is 'Vehicle Rental System'. The form contains the following fields: 'contact number' and 'password'. A 'login' button is located at the bottom of the form. The footer of the page displays 'RV Pavan | 1MJ17CS112'.

Figure 6.8 – Login page (user)

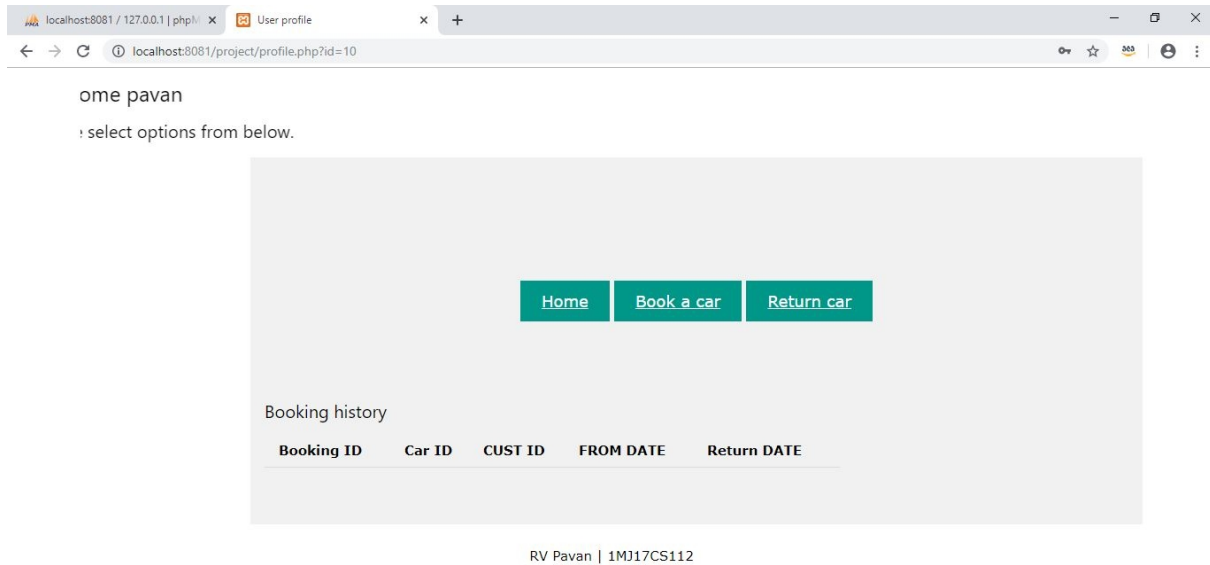


Figure 6.9– Profile page (user)

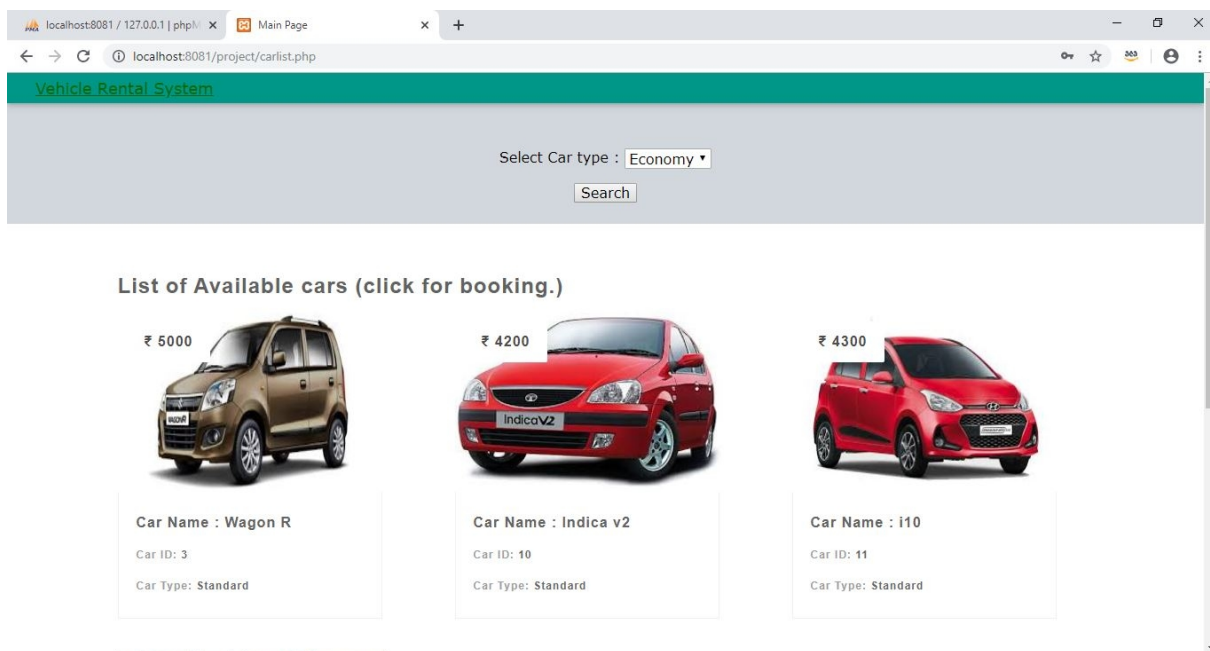


Figure 6.10 – Book car

Vehicle Rental System

10

11

11/22/2019

SUBMIT

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Figure 6.11– Rental confirmation

Home Book a car Return car [click here for id details](#)

Return car...

Enter booking ID :

Enter car ID :

Enter Return date:

Return Car

Bill ID	Booking ID	Bill date	Amount	Tax Amount	Total Amount
9	7	2019-12-07	64500.00	6450.00	70950.00

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Figure 6.12– Return car

## CHAPTER 7

### CONCLUSION AND FUTURE SCOPE

In this project, the design and implementation of the “Car Rental Management System” has been attempted with the help of PHP, HTML, CSS and MySQL. Also, seen the functions performed by this application and code for the same. The presence of many in-built functions and libraries to take care of many of the functionalities reduces the burden of coding and makes the implementation simpler.

The project started with the designing phase in which figured the requirements Needed the system design. ER design etc. Then comes the details of the implementation phase wherein included various functionalities.

## **Bibliography**

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