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# CAR RENTAL SYSTEM

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19CSE202-DATA BASE MANAGEMENT SYSTEMS



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## **ABSTRACT**

Car rental system is an online system where customers can rent different kinds of cars of their interest. The main aim of this project is to design and develop a database for the car rental company to maintain the records of different types of information such as customer details, different cars details and it would be easy to keep track of different cars. This system simplifies the assignment of different cars and also increases the efficiency as it attracts many new customers.

## **PREVIEW OF THE PROJECT**

### **INTRODUCTION:**

This system keeps track of information of different kinds of cars in different locations, the status of every car. A customer can check availability of cars in his location and can book the car. while booking a customer is asked to submit his/her license/Aadhaar card number for safety. A caution deposit is also need to be submitted before the pickup. The customer is asked about from and to date to rent a car. A customer can return the car after the to date as well but they will be charged with some late fee. If customer wants to cancel the booking, they can cancel the booking 5 days before the actual pickup. If the customer rents the car for the first time then they are granted with the discount coupon. Billing is done after they return the car.

### **NEEDED FOR ?**

This system makes the customers work to search for cars easy as all the details about the availability of different cars are available. This system also helps the car rental company to find the customers easily.

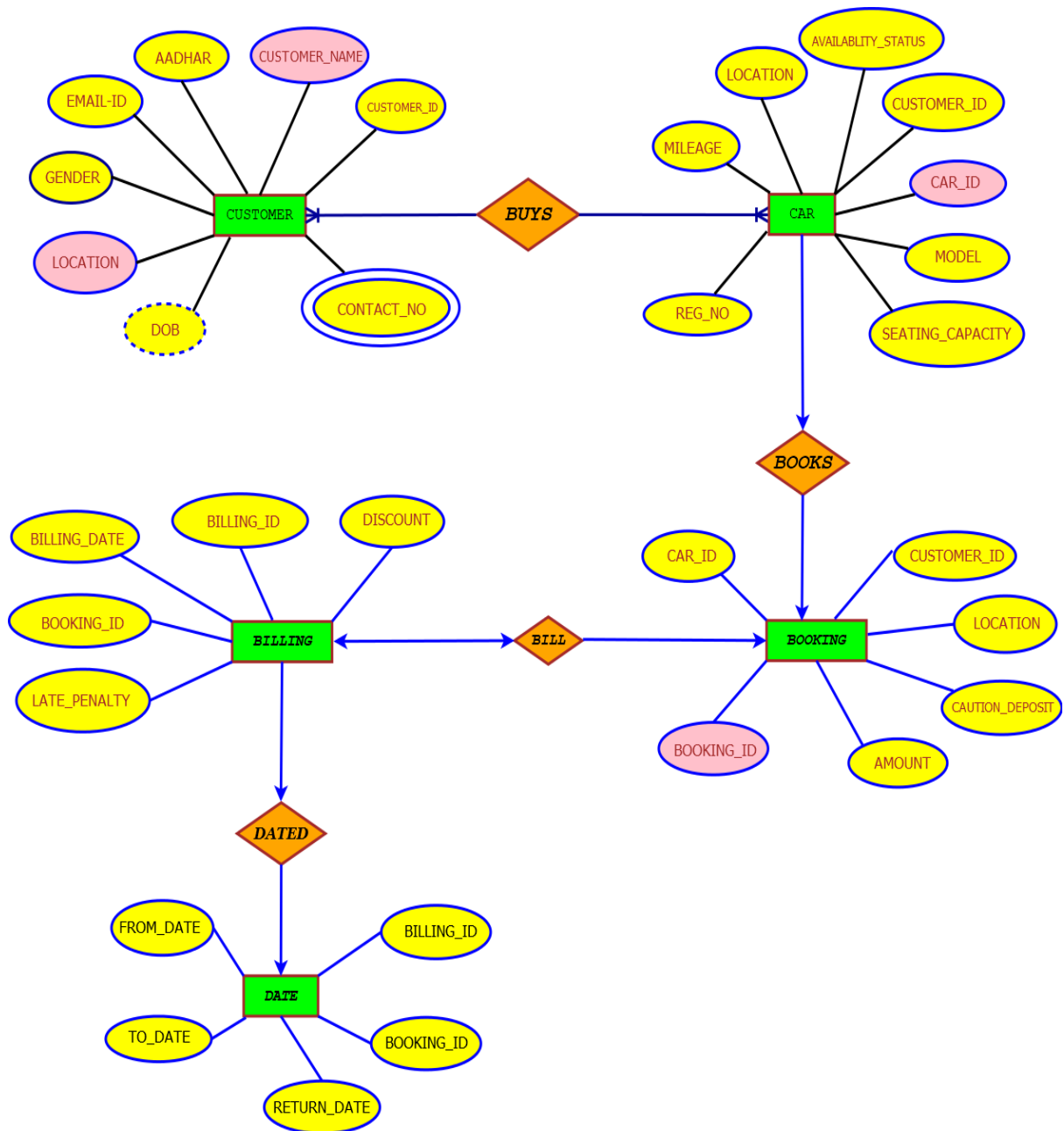
### **MOTIVATION :**

To design a website design to increase customer retention and to simplify vehicle and staff management. The main objective of the website car Rental System requires a temporary vehicle, for example those who do not own their own car, or owners of damaged or destroyed vehicles who are awaiting repair or insurance compensation or travelers who are out of town.

### **TOOLS USED :**

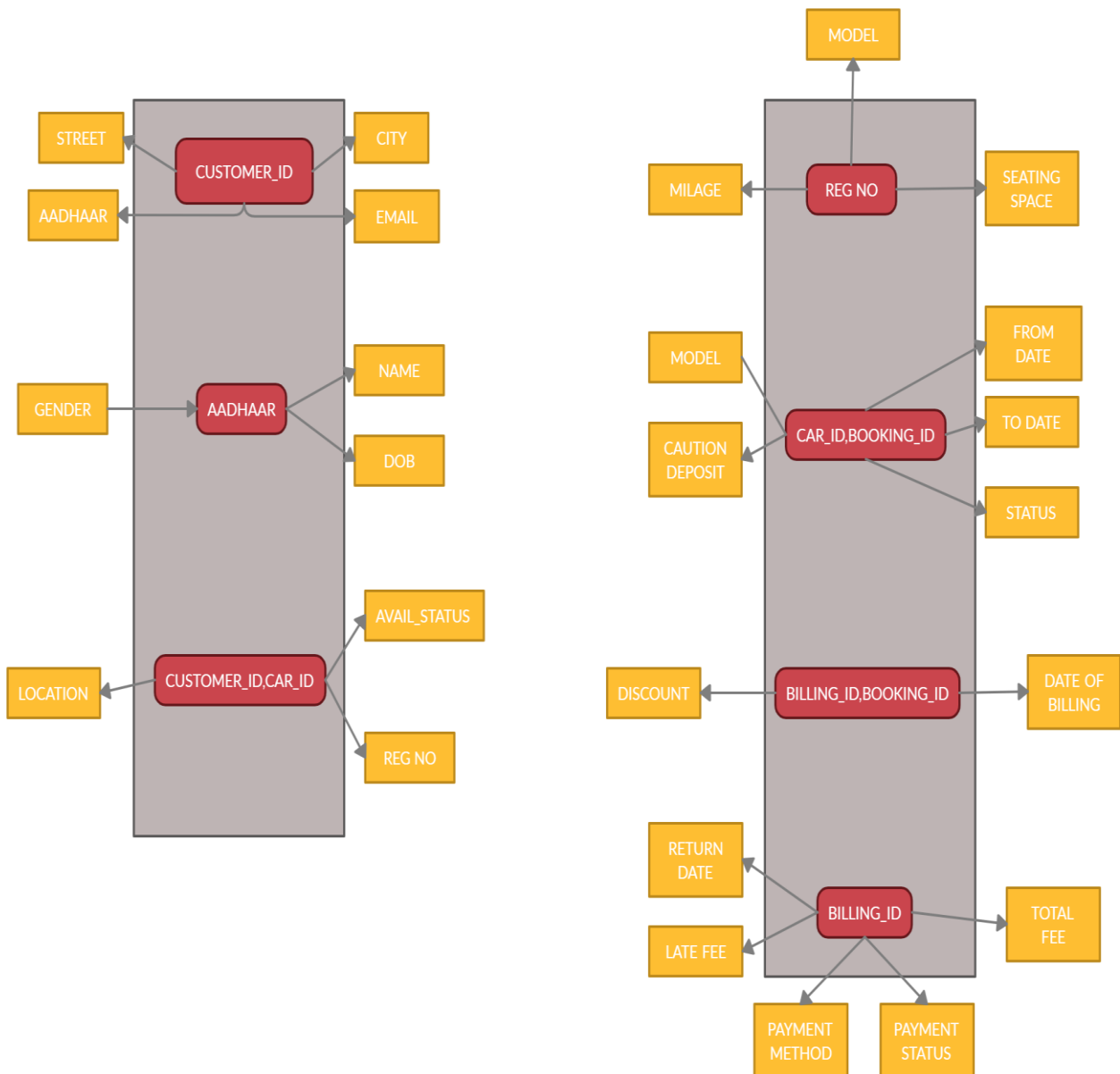
- For Database : xampp, phpMyAdmin
- For User Interface : HTML, CSS, JS, PHP

## ENTITY-RELATIONSHIP MODEL





## NORMALISED SCHEMA



## NORMALISED DOCUMENTS

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### 1NF:

As per the rule of first normal form, an attribute (column) of a table cannot hold multiple values. should hold only atomic values.

customer_id	customer_name	Phone No	Aadhaar	Email	
Gender	DOB	Street	city	Zip code	car- id
car model	location	milage	Seating space	availability status	
Reg. No	Booking_Id	caution deposit	booking status	From date	to-date
billing id	discount	date of billing	return - date	late fee	Total amount
payment method			Payment status		

### **2NF:**

In the second normal form, all non-key attributes are fully functional dependent on the primary key



Customer_Id	Customer_name	Phone_number	Email	Gender	Dob	Street	City	Zip_code	Aadhar
Customer_Id	Car_Id	Car_model	Location	Milage	Seating	Availability	Reg_no		
Car_Id	Booking_Id	Caution_deposit	Booking_Status	From_date	To_date	Car_model			
Booking_Id		Billing_Id		Discount		Date of billing			
Billing_Id		Return_date	Late_fee	Total_amount	Payment_status	Payment_method			

### 3NF :

- A relation will be in 3NF if it is in 2NF and not contain any transitive partial dependency.

Customer_Id	Phone_number	Email	Street	City	Zip_code	Car_model	Aadhar
Aadhar	Customer_name		Gender		Dob		
Customer_Id	Car_Id	Car_model	Location	Milage	Seating	Availability_status	Reg_no
Car_Id	Booking_Id	Car_model	Caution_deposit	Booking_status		From_date	To_date
Booking_Id		Billing_Id		Discount		Date of billing	
Billing_Id	Return_date	Late_fee	Total_amount		Payment_status	Payment_method	

### NORMALISED FULL DOCUMENT :

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Click the following link :

➤ [Normalised Document](#)



## TABLES CREATION

---

```
CREATE TABLE CUSTOMER (  
CUSTOMER_ID varchar (5) PRIMARY KEY,  
PHONE_NUMBER int,  
EMAIL varchar(70),  
STREET varchar(50),  
CITY varchar(20),  
ZIPCODE int,  
AADHAAR int );
```

```
CREATE TABLE CAR (  
CAR_ID varchar(5) PRIMARY KEY,  
CAR_MODEL varchar(10),  
CUSTOMER_ID varchar(5),  
LOCATION varchar(100),  
REG_NO varchar(10)  
FOREIGN KEY (CUSTOMER_ID) REFERENCES(CUSTOMER) );
```

```
CREATE TABLE BOOKING (  
BOOKING_ID varchar(5) PRIMARY KEY,  
CAR_ID varchar(5),  
CUSTOMER_ID varchar(5),  
FROM_DATE varchar(15),  
TO_DATE varchar(15)  
FOREIGN KEY(CAR_ID) REFERENCES CAR(CAR_ID);  
FOREIGN KEY(CUSTOMER_ID) REFERENCES CUSTOMER(CUSTOMER_ID) );
```

```
CREATE TABLE BILLING (  
BILLING_ID varchar(5) PRIMARY KEY,  
BOOKING_ID varchar(5),  
CUSTOMER_ID varchar(5),  
CAR_ID varchar(5),
```

BILL\_DATE varchar(15)

ADD FOREIGN KEY(BOOKING\_ID) REFERENCES BOOKING(BOOKING\_ID)

ADD FOREIGN KEY(CUSTOMER\_ID) REFERENCES CUSTOMER(CUSTOMER\_ID)

ADD FOREIGN KEY(CAR\_ID) REFERENCES CAR(CAR\_ID) );

CREATE TABLE PAYMENT (

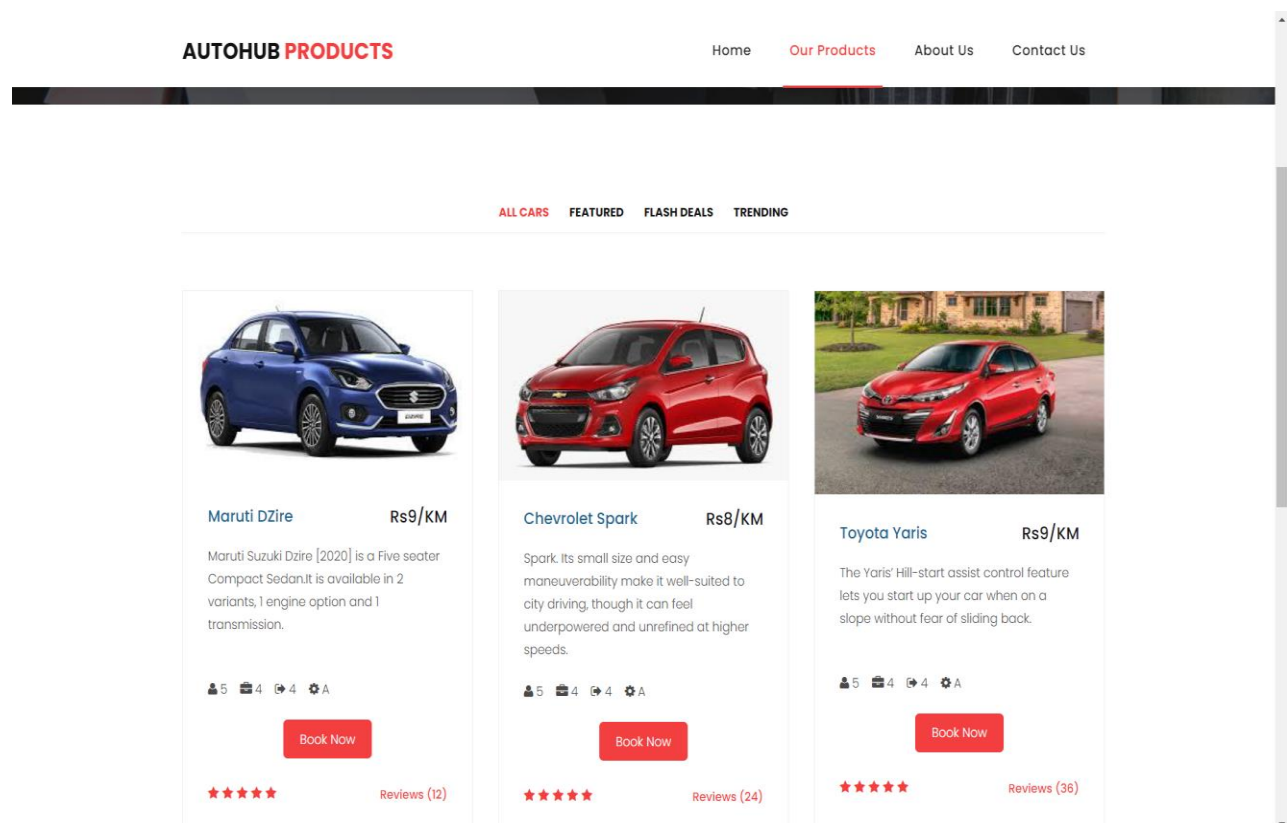
PAYMENT\_METHOD varchar(10),

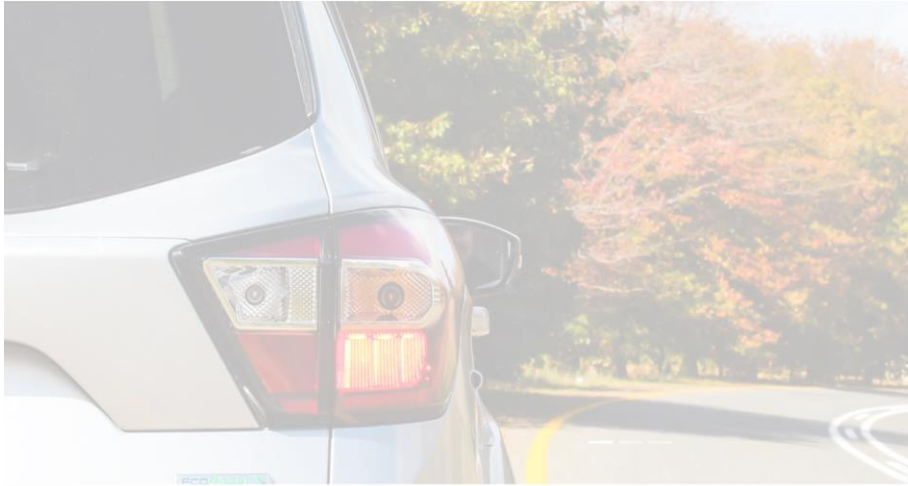
PAYMENT\_STATUS varchar(3),

BILLING\_ID varchar(5),

TOTAL\_AMOUNT varchar(7) );

## USER INTERFACE DESIGN





#### MENU

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## What makes our car rental websites unique?

All our car rental websites and booking solutions are different according to the requirement of individual car rental companies.



**AutoHub**

### CUSTOMER DETAILS

Firstname	<input type="text" value="Enter Your Firstname"/>
Lastname	<input type="text" value="Enter Your Lastname"/>
Contact	<input type="text" value="10 digit Number"/>
Date Of Birth	<input type="text" value="dd-mm-yyyy"/>
Email	<input type="text" value="Email"/>
Gender	<input type="text" value="Male"/> ▾
Street	<input type="text"/>
City/Town	<input type="text"/>
<input type="button" value="SUBMIT"/>	

## CONNECTIVITY CODE

```
<!DOCTYPE html>
<html>
<head>
  <title>SIGN UP</title>
  <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
  <form action="signup-check.php" method="post">
    <div align="center"></div>
    <h2>SIGN UP</h2>
    <?php if (isset($_GET['error'])) { ?>
      <p class="error"><?php echo $_GET['error']; ?></p>
    <?php } ?>
    <?php if (isset($_GET['success'])) { ?>
      <p class="success"><?php echo $_GET['success']; ?></p>
    <?php } ?>
    <label>Name</label>
    <?php if (isset($_GET['name'])) { ?>
      <input type="text"
        name="name"
        placeholder="Name"
        value="<?php echo $_GET['name']; ?>"><br>
    <?php }else{ ?>
      <input type="text"
        name="name"
        placeholder="Name"><br>
    <?php }?>
    <label>E-Mail</label>
    <?php if (isset($_GET['uname'])) { ?>
      <input type="text"
        name="uname"
        placeholder="User Name"
        value="<?php echo $_GET['uname']; ?>"><br>
    <?php }else{ ?>
      <input type="text"
        name="uname"
        placeholder="User Name"><br>
    <?php }?>
    <label>Password</label>
    <input type="password"
      name="password"
      placeholder="Password"><br>
    <label>Confirm Password</label>
    <input type="password"
      name="re_password"
      placeholder="Confirm Password"><br>
    <button type="submit">Sign Up</button>
    <a href="main.php" class="ca">Already have an account?</a>
  </form>
</body>
</html>
```

```

<?php
$Name = $_POST['Name'];
$EMail = $_POST['Email'];
$Subject = $_POST['Subject'];
$Feedback = $_POST['Feedback'];

$conn = new mysqli('localhost','root','','test_db');
if($conn->connect_error){
    die('Connection Failed : '.$conn->connect_error);
}else{
    $stmt = $conn->prepare("insert into Feedback(Name, Email, Subject,
Feedback)
    values(?,?,?,?)");
    $stmt->bind_param("ssss",$Name,$EMail,$Subject,$Feedback);
    $stmt->execute();
    header("Location:index.html");
    $stmt->close();
    $conn->close();
}
?>

```

```

<?php
session_start();

if (isset($_SESSION['id']) && isset($_SESSION['user_name'])) {

    ?>
<!DOCTYPE html>
<html>
<head>
    <title>HOME</title>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
    <h1>Hello, <?php echo $_SESSION['name']; ?></h1>
    <a href="logout.php">Logout</a>
</body>
</html>

<?php
}else{
    header("Location: index.php");
    exit();
}
?>

```

```

<?php
session_start();

session_unset();
session_destroy();

header("Location: index.php");
?>

```

**LOGIN :**

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## BOOKING:

```
<!DOCTYPE html>
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <title>Hotel Reservation Form</title>
  <meta name="description" content="">
  <meta name="viewport" content="width=device-width, initial-
scale=1">
  <link rel="stylesheet" href="css/normalize.css">
  <link rel="stylesheet" href="css/main.css">
  <script src="js/vendor/modernizr-2.6.2.min.js"></script>
  <style>
    .button {
      border: none;
      color: white;
      padding: 15px 32px;
      text-align: center;
      text-decoration: none;
      display: inline-block;
      font-size: 16px;
      margin: 4px 2px;
      cursor: pointer;
    }

    .button1 {background-color: #4CAF50;} /* Green */
    .button2 {background-color: #008CBA;} /* Blue */
  </style>
</head>
<body>
  <form id="booking-form" class="booking-form" name="form1"
method="GET" action="../index.php">
    <div align="center"></div>
    <h1 align="center" font-color="red">AutoHub</h1>
    <div class="h1" ALIGN="RIGHT">Book THE BEST</div>

    <div id="form-message" class="message hide">
      Thank you for your enquiry!
    </div>
    <div id="form-content">
      <div class="group">
        <label for="date-from">From</label>
        <div class="addon-right">
          <input id="From" name="From" class="form-control"
type="text">
          <i class="fa fa-calendar"></i>
        </div>
      </div>
      <div class="group">
        <label for="date-to">To</label>
        <div class="addon-right">
          <input id="To" name="To" class="form-control"
type="text">
          <i class="fa fa-calendar"></i>
        </div>
      </div>
    </div>
  </form>
</body>
```

```

    </div>
    <div class="group">
        <label for="room-type">Type</label>
        <div>
            <select id="Type" name="Type" class="form-control">
                <option value="">Mini</option>
                <option value="">Semi-Sedan</option>
                <option value="">Sedan</option>
                <option value="">SUX</option>

            </select>
        </div>
    </div>
    <div class="group">
        <label for="Seating_Capacity">Seating_Capacity</label>
        <div>
            <select id="Seating_Capacity"
name="Seating_Capacity" class="form-control">
                <option value="#">No Preference</option>
                <option value="">1</option>
                <option value="">2</option>
                <option value="#">3</option>
                <option value="#">4</option>
                <option value="#">5</option>
                <option value="#">6</option>
                <option value="#">7</option>
            </select>
        </div>
    </div>
    <div class="group">
        <label for="Adults">Adults</label>
        <div>
            <select id="Adults" name="Adults" class="form-
control">
                <option value="1">1</option>
                <option value="2">2</option>
                <option value="3">3</option>
                <option value="4">4</option>
            </select>
        </div>
    </div>
    <div class="group">
        <label for="Children">Children</label>
        <div>
            <select id="Children" name="Children" class="form-
control">
                <option value="-">-</option>
                <option value="1">1</option>
                <option value="2">2</option>
                <option value="3">3</option>
                <option value="4">4</option>
            </select>
        </div>
    </div>
    <div class="group">
        <label for="Name">Name</label>
        <div><input id="Name" name="Name" class="form-control"
type="text" placeholder="Enter Your Name"></div>
    </div>
    <div class="group">
        <label for="Email">Email</label>

```



```

        <div><input id="Email" name="Email" class="form-
control" type="email" placeholder="Email"></div>
    </div>
    <div class="group">
        <label for="Phone">Phone</label>
        <div><input id="Phone" name="Phone" class="form-
control" type="text" placeholder="Phone"></div>
    </div>
    <div class="group">
        <label for="Special_Requirements">Special
requirements</label>
        <div><textarea id="Special_Requirements"
name="Special_Requirements" class="form-control" cols="" rows="5"
placeholder="Special requirements"></textarea></div>
    </div>
    <div class="group submit">
        <center><button class="button button1" ><a
href="../index.php" style="text-decoration: none">Book
Now</a></button></center>
    </div>
</div>
</form>
</body>
</html>

```

## FOR FULL UI DESIGN :

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### ➤ Group10-UI

## CONCLUSION:

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Our website Car rental system helps customers to easily search for cars and book them. In our website the customer is first expected to login to view the car information and all. After log in only the customer can see the entire car details. If the customer does not have any account he can sign up and his data will be stored in our database. After logging in the customer is expected to fill his personal details and that data will also be stored in the database. After that the customer can check and search for different cars. After choosing the car the customer can book the car by pressing Book Now button. After that the information will be stored in the database and the car will be booked.

## REFERENCES:

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- <https://www.w3schools.com/css/default.asp>
- <https://www.javatpoint.com/phpmyadmin>
- <https://www.cloudways.com/blog/connect-mysql-with-php/>
- <https://www.apachefriends.org/index.html>
- <https://www.php.net/downloads.php>