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**CAR RENTAL SYSTEM**

**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.

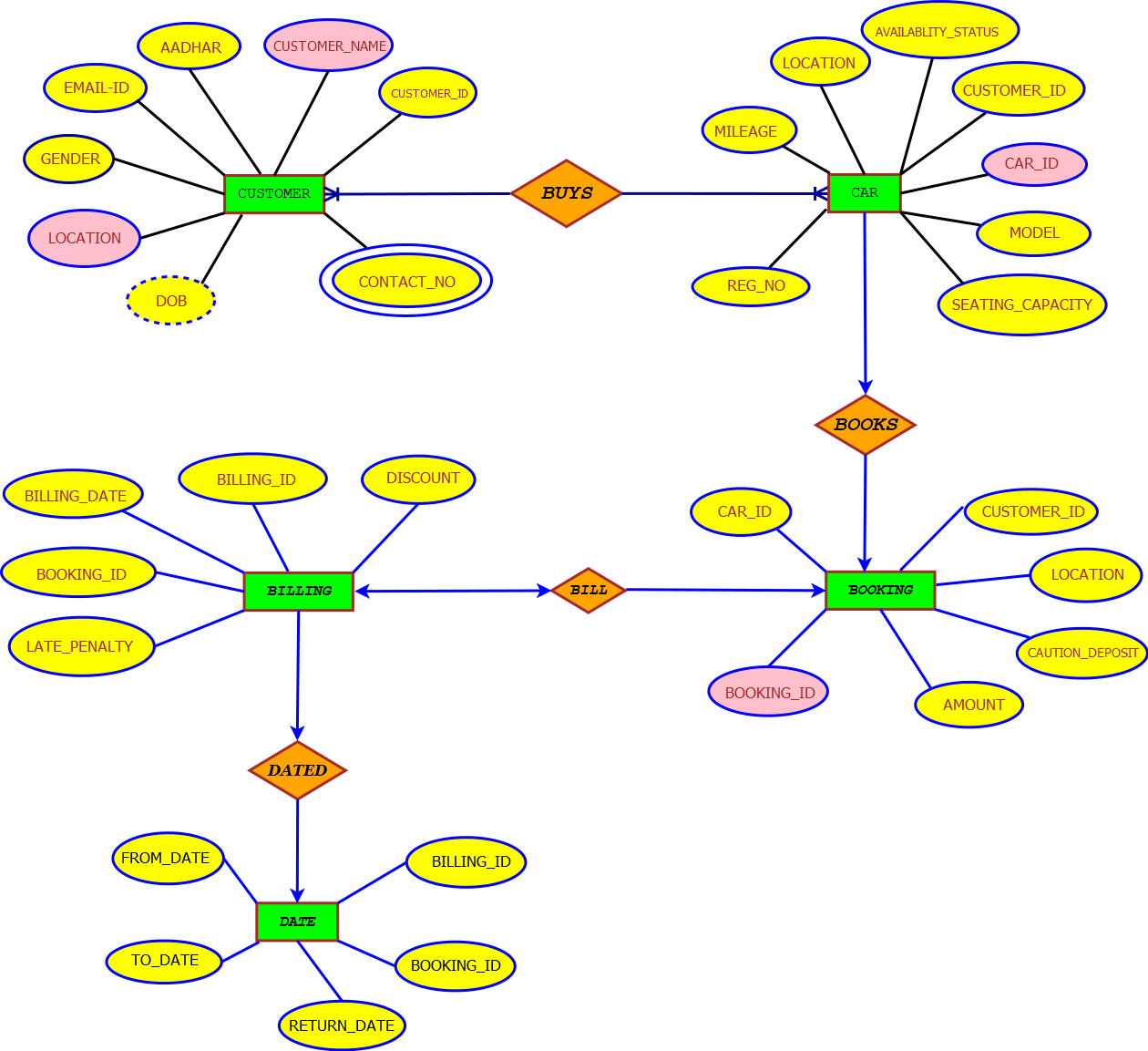
**MOTIVATION :**

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.

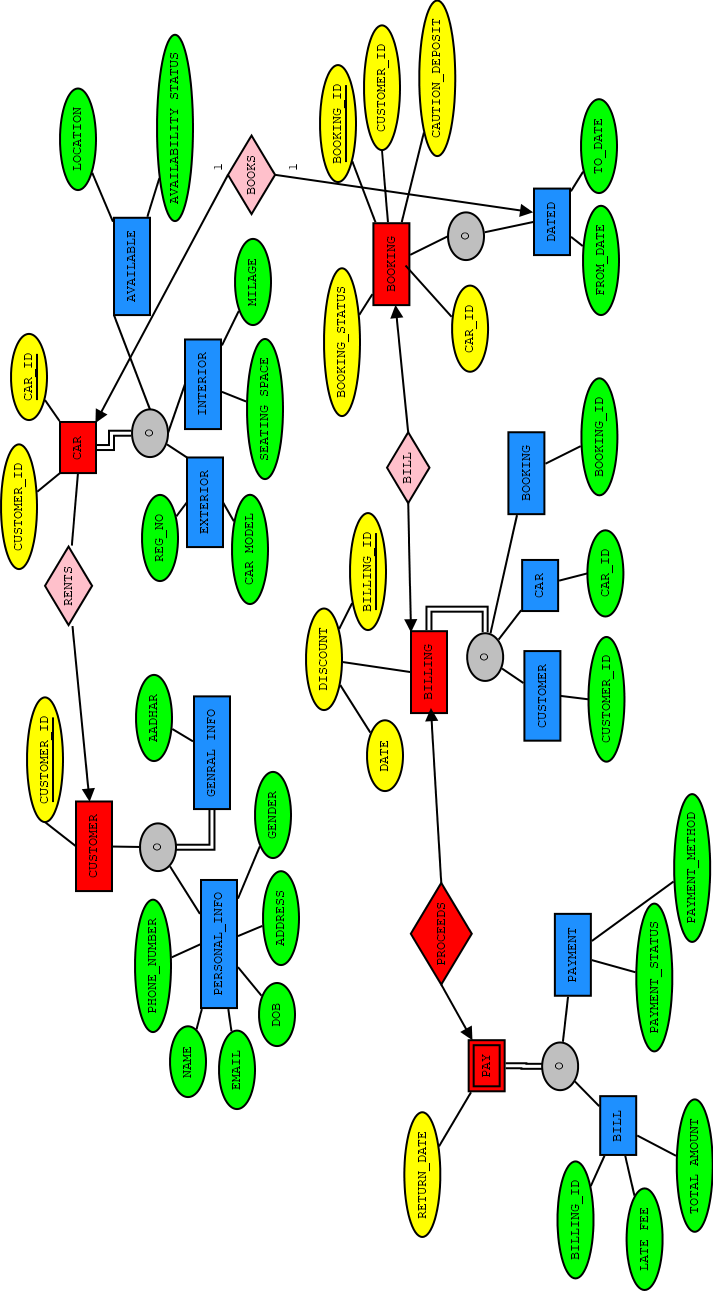
**TOOLS USED :**

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

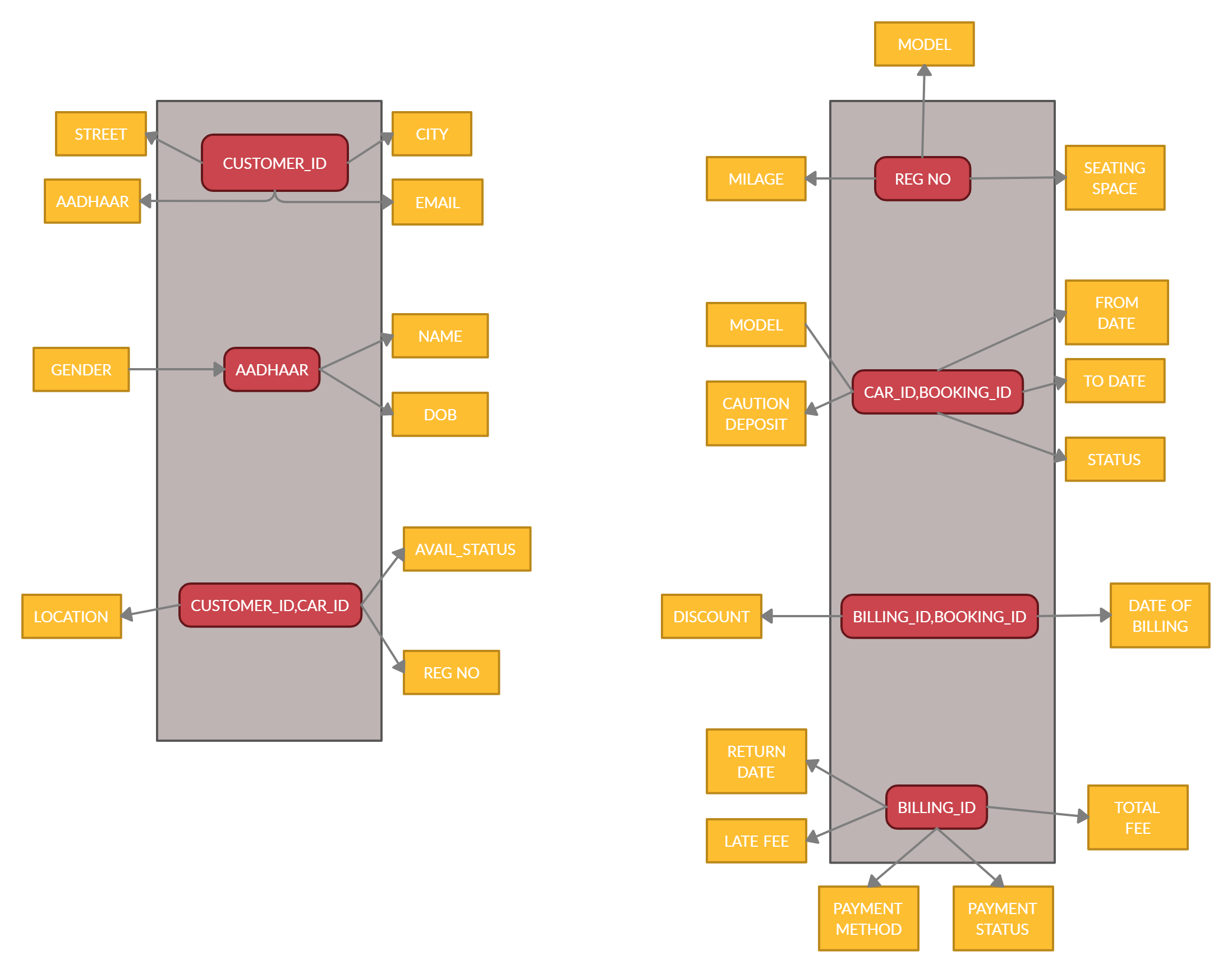
**ENTITY-RELATIONSHIP MODEL**



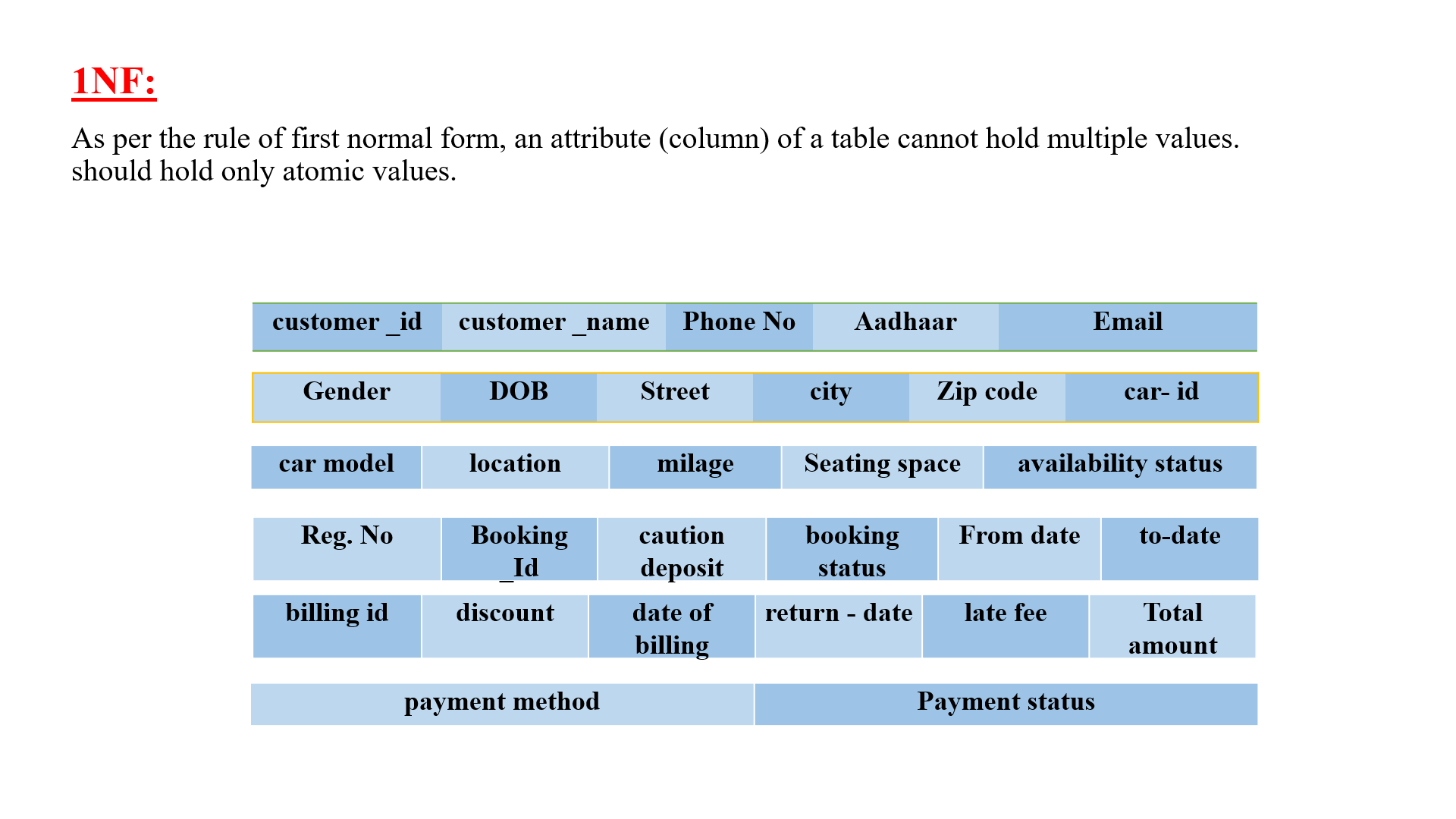
**EXTENDED ER**

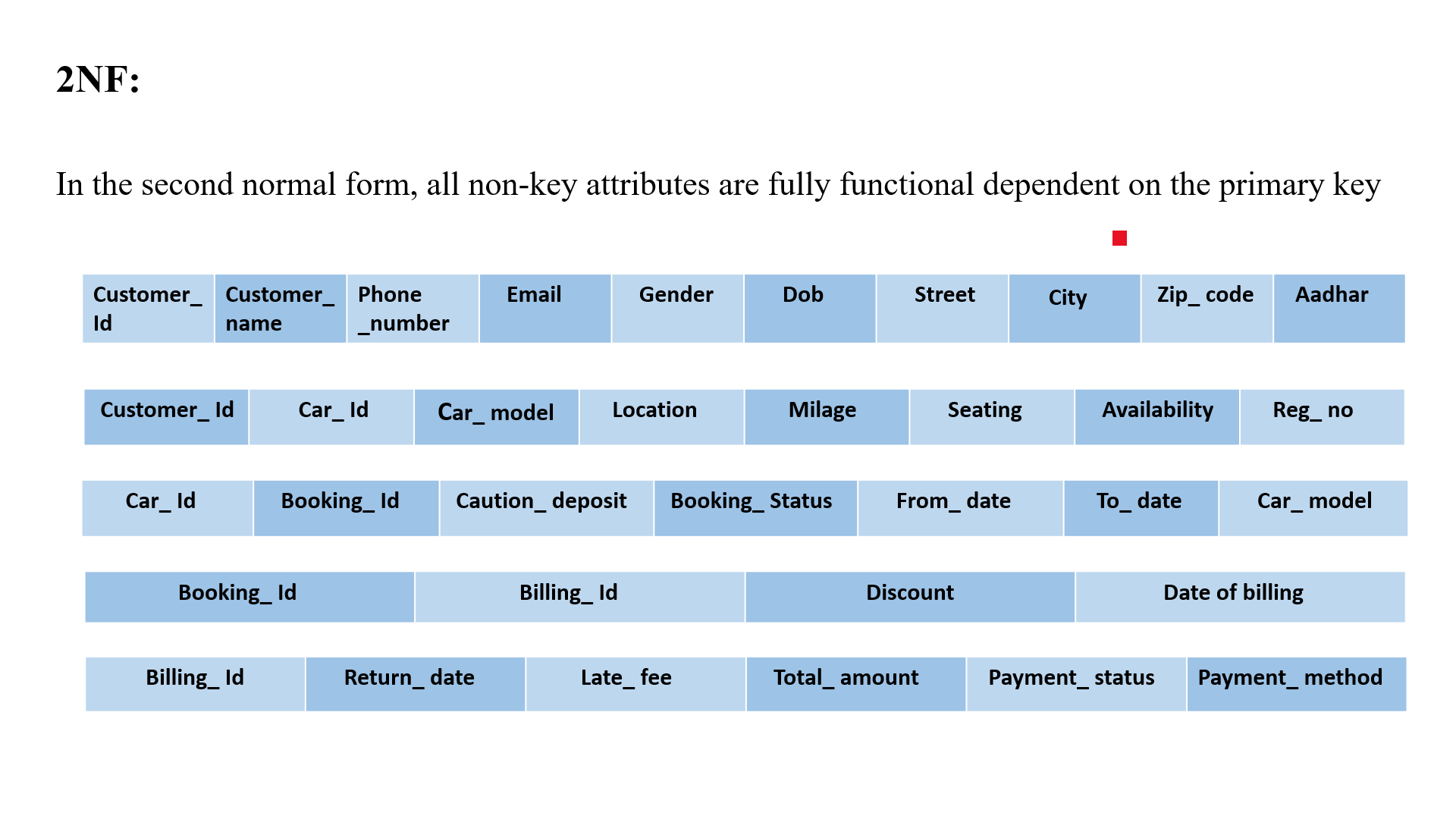


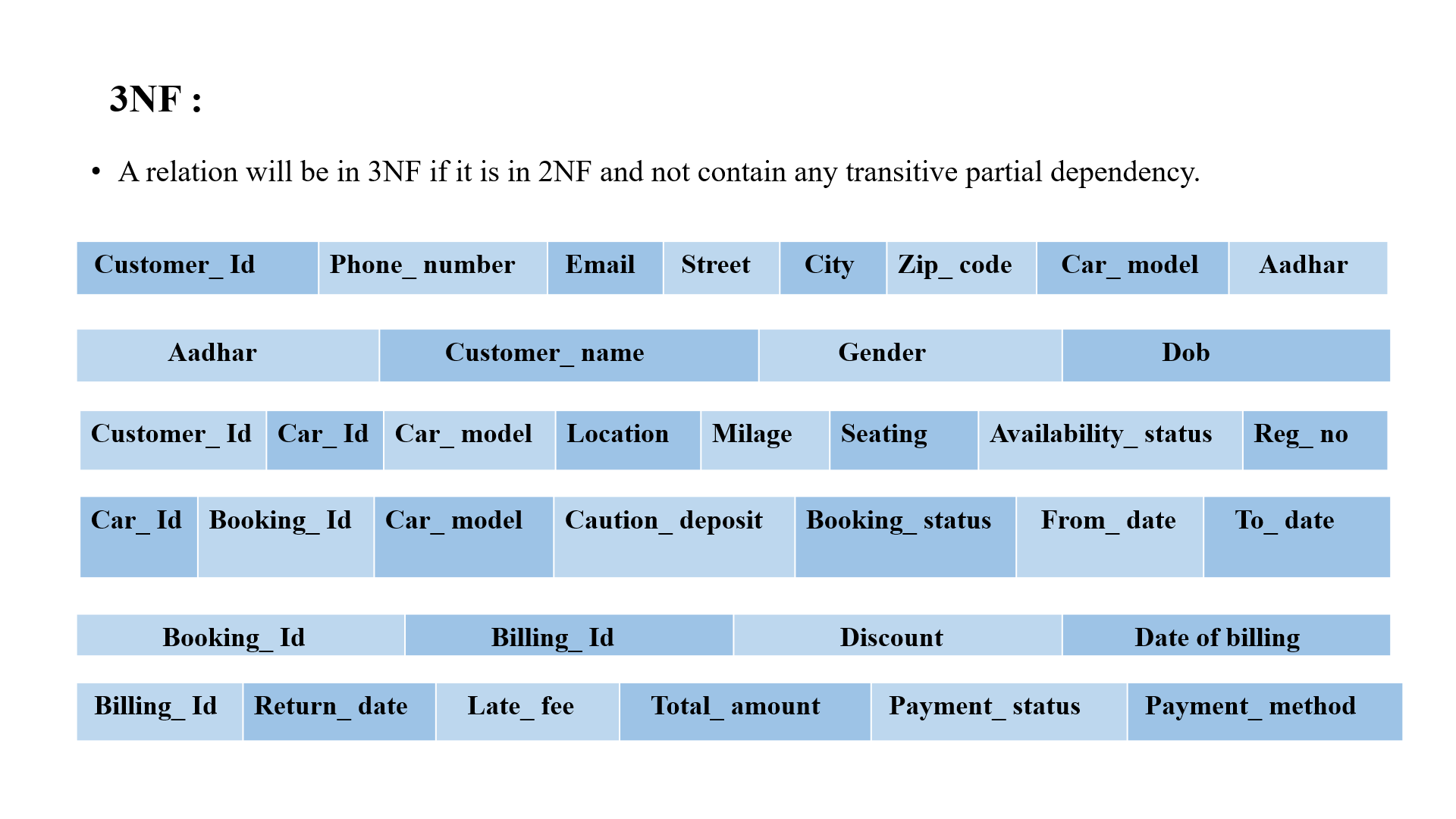
**NORMALISED SCHEMA**



**NORMALISED DOCUMENTS**







**NORMALISED FULL DOCUMENT :**

**Click the following link :**

* [**Normalised Document**](https://amritavishwavidyapeetham-my.sharepoint.com/:w:/g/personal/s_vidhya_cb_amrita_edu/EbBO24gHFXpPnAbT4Um0CRMBn6F9laIjvqpG2jj8Mmf6gA?e=aAKxDK)

**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 (

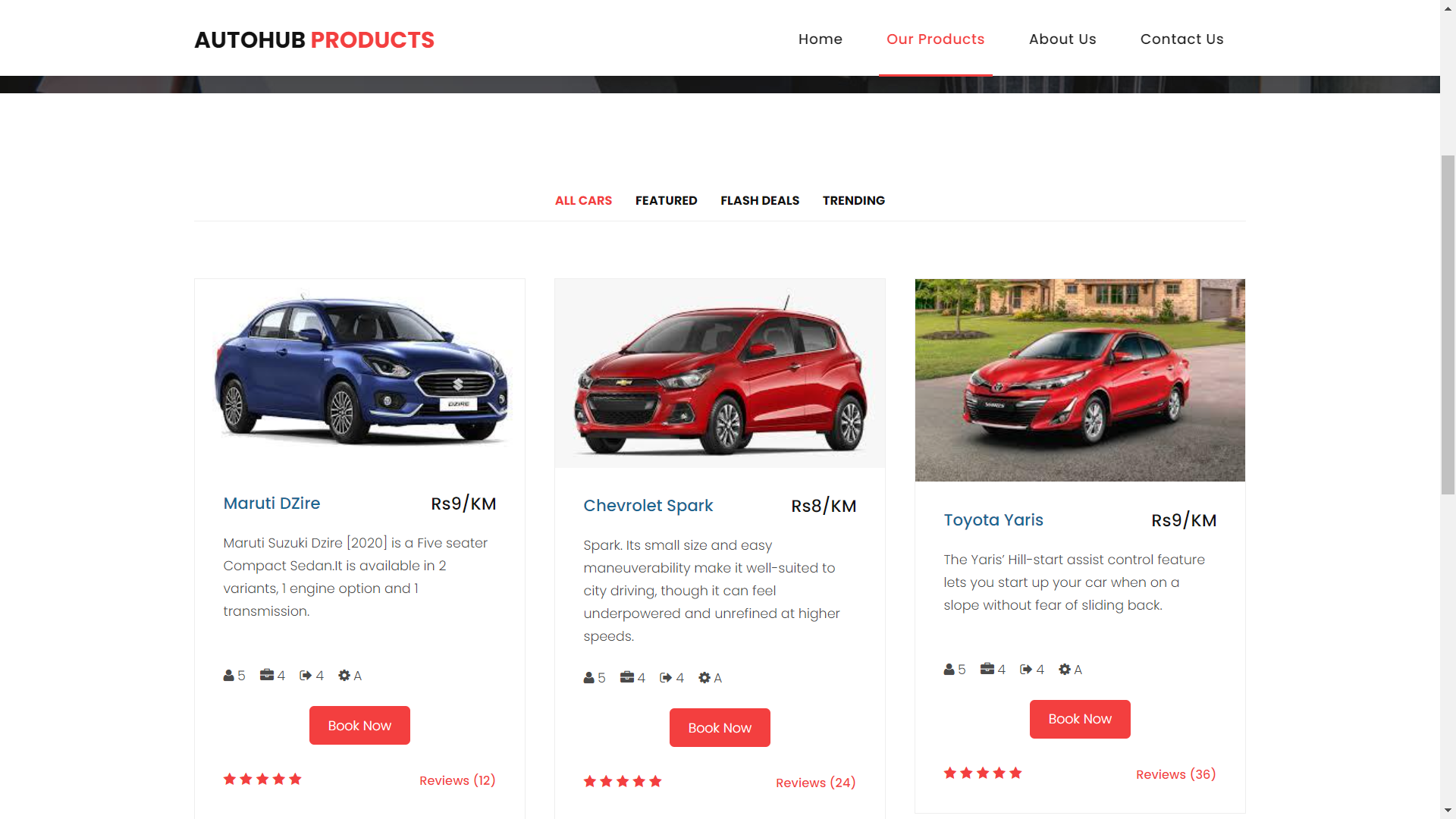
PAYMENT\_METHOD varchar(10),

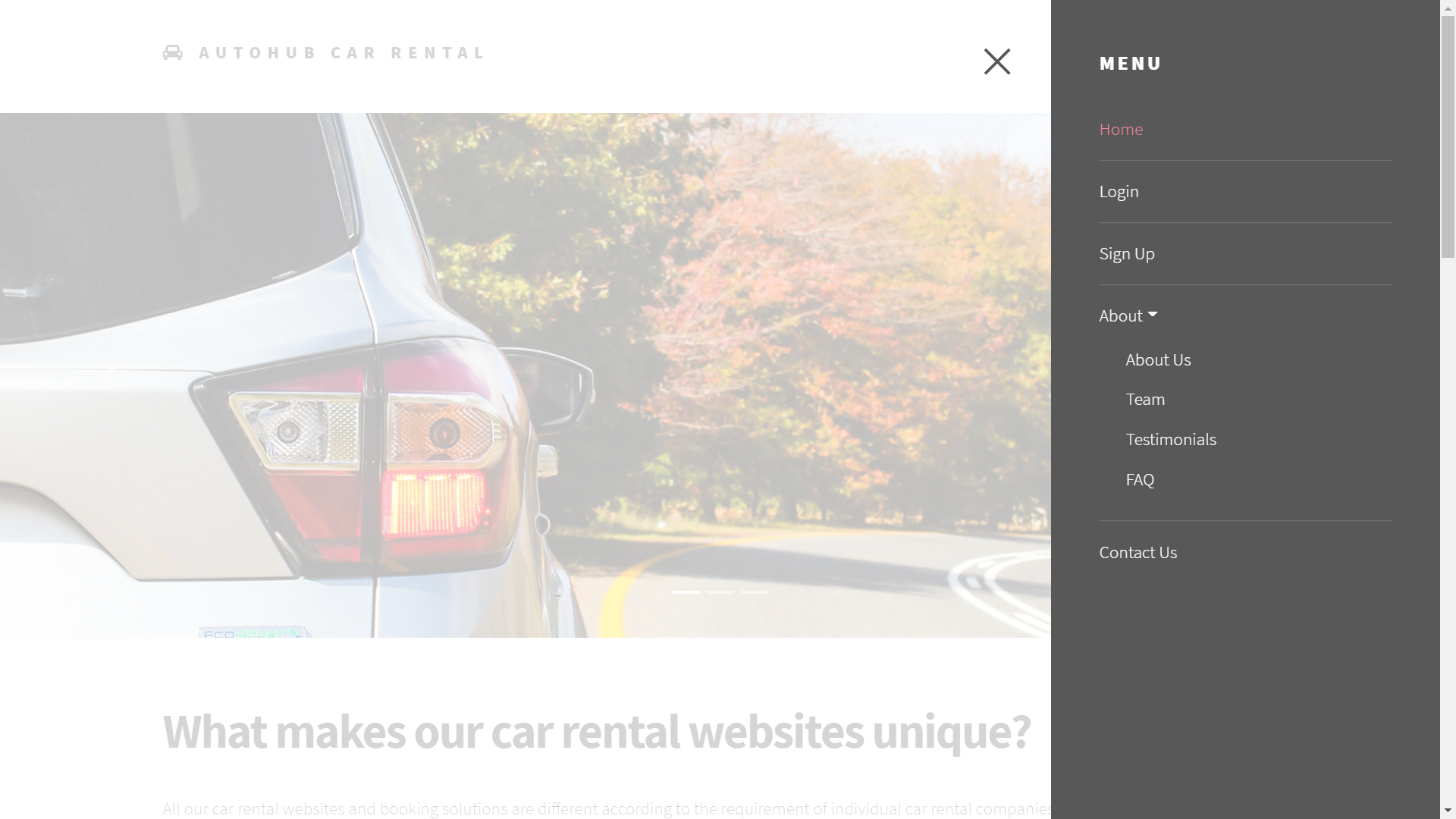
PAYMENT\_STATUS varchar(3),

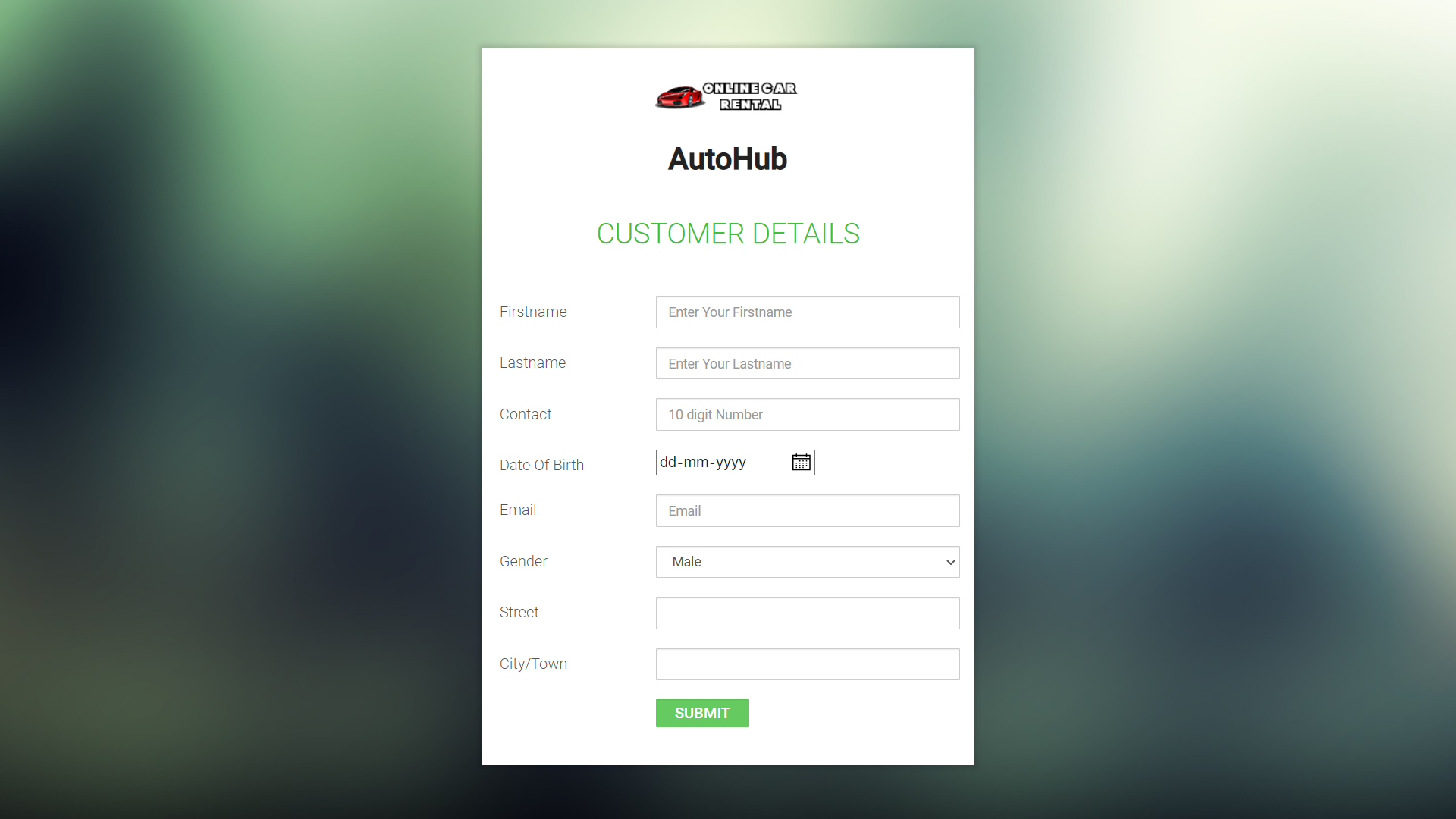
BILLING\_ID varchar(5),

TOTAL\_AMOUNT varchar(7) );

**USER INTERFACE DESIGN**







**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"><img class="logo" src="UI\_CarRental/images/logg.png" title="Example Logo" alt="Example Logo"></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");  
?>

**SAMPLE UI CODE**

**LOGIN :**

<?php   
session\_start();   
include "db\_conn.php";  
  
if (isset($\_POST['uname']) && isset($\_POST['password'])) {  
  
 function validate($data){  
 $data = trim($data);  
 $data = stripslashes($data);  
 $data = htmlspecialchars($data);  
 return $data;  
 }  
  
 $uname = validate($\_POST['uname']);  
 $pass = validate($\_POST['password']);  
  
 if (empty($uname)) {  
 header("Location: main.php?error=User Name is required");  
 exit();  
 }else if(empty($pass)){  
 header("Location: main.php?error=Password is required");  
 exit();  
 }else{  
 // hashing the password  
 $pass = md5($pass);  
  
   
 $sql = "SELECT \* FROM users WHERE user\_name='$uname' AND password='$pass'";  
  
 $result = mysqli\_query($conn, $sql);  
  
 if (mysqli\_num\_rows($result) === 1) {  
 $row = mysqli\_fetch\_assoc($result);  
 if ($row['user\_name'] === $uname && $row['password'] === $pass) {  
 $\_SESSION['user\_name'] = $row['user\_name'];  
 $\_SESSION['name'] = $row['name'];  
 $\_SESSION['id'] = $row['id'];  
 header("Location: UI\_CarRental/index.php");  
 exit();  
 }else{  
 header("Location: main.php?error=Incorect User name or password");  
 exit();  
 }  
 }else{  
 header("Location: main.php?error=Incorect User name or password");  
 exit();  
 }  
 }  
   
}else{  
 header("Location: main.php");  
 exit();  
}

**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"><img class="logo" src="img/logg.png" title="Example Logo" alt="Example Logo"></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 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 :**

* [**Group10-UI**](https://drive.google.com/drive/folders/1pUruLZciuYQFnfcK9FZ96kDBgBggtaXC?usp=sharing)

**CONCLUSION:**

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:**

* <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>