ChatGPT

Creating a car lease project involves integrating HTML, CSS, PHP, JavaScript, and MySQL to build a functional web application. Below, I'll provide a structured approach with code snippets for each component:

**1. Database Setup (MySQL)**

Create a MySQL database with tables for cars, users, and leases. Here’s a simplified structure:

sql

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-- Table structure for table `cars`

CREATE TABLE `cars` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`make` varchar(255) NOT NULL,

`model` varchar(255) NOT NULL,

`year` int(4) NOT NULL,

`price\_per\_month` decimal(10,2) NOT NULL,

PRIMARY KEY (`id`)

);

-- Table structure for table `users`

CREATE TABLE `users` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`username` varchar(255) NOT NULL,

`password` varchar(255) NOT NULL,

`email` varchar(255) NOT NULL,

PRIMARY KEY (`id`),

UNIQUE KEY `username` (`username`)

);

-- Table structure for table `leases`

CREATE TABLE `leases` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`user\_id` int(11) NOT NULL,

`car\_id` int(11) NOT NULL,

`start\_date` date NOT NULL,

`end\_date` date NOT NULL,

`total\_cost` decimal(10,2) NOT NULL,

PRIMARY KEY (`id`),

KEY `user\_id` (`user\_id`),

KEY `car\_id` (`car\_id`),

CONSTRAINT `leases\_ibfk\_1` FOREIGN KEY (`user\_id`) REFERENCES `users` (`id`) ON DELETE CASCADE,

CONSTRAINT `leases\_ibfk\_2` FOREIGN KEY (`car\_id`) REFERENCES `cars` (`id`) ON DELETE CASCADE

);

**2. Backend (PHP)**

**Database Connection (config.php)**

php

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<?php

$servername = "localhost";

$username = "your\_username";

$password = "your\_password";

$dbname = "car\_lease";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

?>

**User Registration (register.php)**

php

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<?php

include 'config.php';

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

$username = $\_POST['username'];

$password = password\_hash($\_POST['password'], PASSWORD\_DEFAULT); // Hash password

$email = $\_POST['email'];

$sql = "INSERT INTO users (username, password, email) VALUES ('$username', '$password', '$email')";

if ($conn->query($sql) === TRUE) {

echo "Registration successful!";

} else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

}

?>

**User Login (login.php)**

php

Copy code

<?php

session\_start();

include 'config.php';

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

$username = $\_POST['username'];

$password = $\_POST['password'];

$sql = "SELECT \* FROM users WHERE username='$username'";

$result = $conn->query($sql);

if ($result->num\_rows == 1) {

$row = $result->fetch\_assoc();

if (password\_verify($password, $row['password'])) {

$\_SESSION['username'] = $username;

header("Location: lease.php"); // Redirect to lease page after successful login

} else {

echo "Incorrect password";

}

} else {

echo "User not found";

}

}

?>

**Lease Management (lease.php)**

php

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<?php

session\_start();

include 'config.php';

if (!isset($\_SESSION['username'])) {

header("Location: login.php");

exit();

}

// Fetch available cars

$sql\_cars = "SELECT \* FROM cars";

$result\_cars = $conn->query($sql\_cars);

// Handle lease submission

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

$user\_id = $\_SESSION['user\_id'];

$car\_id = $\_POST['car\_id'];

$start\_date = $\_POST['start\_date'];

$end\_date = $\_POST['end\_date'];

// Calculate total cost (example calculation)

$sql\_car = "SELECT price\_per\_month FROM cars WHERE id='$car\_id'";

$result\_car = $conn->query($sql\_car);

$row\_car = $result\_car->fetch\_assoc();

$price\_per\_month = $row\_car['price\_per\_month'];

$total\_cost = $price\_per\_month \* (strtotime($end\_date) - strtotime($start\_date)) / (60 \* 60 \* 24 \* 30); // Assuming monthly lease

// Insert into leases table

$sql = "INSERT INTO leases (user\_id, car\_id, start\_date, end\_date, total\_cost) VALUES ('$user\_id', '$car\_id', '$start\_date', '$end\_date', '$total\_cost')";

if ($conn->query($sql) === TRUE) {

echo "Lease submitted successfully!";

} else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

}

?>

<!DOCTYPE html>

<html>

<head>

<title>Car Lease</title>

<link rel="stylesheet" type="text/css" href="styles.css">

</head>

<body>

<h2>Lease a Car</h2>

<form method="POST" action="">

<label for="car\_id">Select Car:</label>

<select name="car\_id" id="car\_id">

<?php

if ($result\_cars->num\_rows > 0) {

while($row = $result\_cars->fetch\_assoc()) {

echo "<option value='" . $row['id'] . "'>" . $row['make'] . " " . $row['model'] . "</option>";

}

}

?>

</select><br><br>

<label for="start\_date">Start Date:</label>

<input type="date" name="start\_date" id="start\_date" required><br><br>

<label for="end\_date">End Date:</label>

<input type="date" name="end\_date" id="end\_date" required><br><br>

<input type="submit" value="Submit Lease">

</form>

</body>

</html>

**3. Frontend (HTML, CSS, JavaScript)**

**CSS (styles.css)**

css

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body {

font-family: Arial, sans-serif;

}

form {

width: 50%;

margin: auto;

padding: 20px;

border: 1px solid #ccc;

}

input[type=text], input[type=password], select, input[type=date] {

width: 100%;

padding: 12px;

margin: 8px 0;

display: inline-block;

border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

}

input[type=submit] {

background-color: #4CAF50;

color: white;

padding: 14px 20px;

margin: 8px 0;

border: none;

border-radius: 4px;

cursor: pointer;

}

input[type=submit]:hover {

background-color: #45a049;

}

**HTML Templates (e.g., register.html, login.html)**

html

Copy code

<!DOCTYPE html>

<html>

<head>

<title>User Registration</title>

<link rel="stylesheet" type="text/css" href="styles.css">

</head>

<body>

<h2>Register</h2>

<form method="POST" action="register.php">

<label for="username">Username:</label>

<input type="text" name="username" id="username" required><br><br>

<label for="password">Password:</label>

<input type="password" name="password" id="password" required><br><br>

<label for="email">Email:</label>

<input type="text" name="email" id="email" required><br><br>

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

</form>

</body>

</html>

**JavaScript (Optional for Form Validation)**

javascript

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// Example JavaScript for form validation

function validateForm() {

var username = document.forms["myForm"]["username"].value;

var password = document.forms["myForm"]["password"].value;

var email = document.forms["myForm"]["email"].value;

if (username == "" || password == "" || email == "") {

alert("All fields must be filled out");

return false;

}

}

**Deployment**

* **Upload Files:** Upload your PHP files, HTML files, CSS, and JavaScript to your web server.
* **Set Permissions:** Ensure appropriate file permissions for security (e.g., restrict access to configuration files).

**Conclusion**

This structure provides a basic framework for a car lease project using HTML for structure, CSS for styling, PHP for server-side scripting, JavaScript for client-side interactivity, and MySQL for database management. Customize and expand based on your project requirements and learning objectives.

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ChatGPT can make mistakes. Check impo