

# ZOOM AWAY RENTAL CARS WEBSITE



A

Human Computer Interface Course Project

Report in partial fulfilment of the degree

Bachelor of Technology

in

Computer Science & Artificial Intelligence

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## **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

### **CERTIFICATE**

This is to certify that the Human Computer Interface Report entitled "ZOOM AWAY RENTAL CARS WEBSITE" is a record of bonafide work carried out by the student Y.ANJALI, N.BLESSY,HABEEBA KHANAM bearing RollNo(s). 2303A51416,2303A51062,2303A51474 during the Academic year 2023-2024 in partial fulfillment of the award of the degree of Bachelor of Technology in Computer Science & Engineering by the SR University, Ananthasagar, Hanamkonda.

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## ABSTRACT

The **Zoom Away Rental Cars** project is an online platform designed to streamline the process of renting vehicles. It aims to offer a user-friendly experience by allowing customers to search, book, and manage their car rentals seamlessly. The system includes a responsive website that provides real-time vehicle availability, detailed car listings with images and prices, and an easy-to-use booking form. Customers can filter cars based on their preferences and securely complete transactions through integrated payment gateways. The platform also features a fleet management system for administrators to monitor vehicle availability, maintenance, and pricing in real time. With mobile compatibility, secure data encryption, and interactive features such as a location map and customer support chat, Zoom Away Rental Cars offers a reliable and efficient solution for both customers and business owners in the car rental industry.

## OBJECTIVE

The objective of **Zoom Away Rental Cars** is to provide an efficient and user-friendly online platform for customers to easily search, book, and manage vehicle rentals. The system aims to simplify the car rental process by offering a seamless experience with real-time vehicle availability, secure online payments, and flexible rental options. Additionally, it seeks to improve operational efficiency for fleet managers by enabling them to track vehicle availability, maintenance schedules, and pricing in real time. Ultimately, Zoom Away Rental Cars strives to enhance customer satisfaction, streamline the booking process, and provide a reliable solution for both renters and business owners in the car rental industry.

## EXISTING SYSTEM:

The existing system of Zoom Away Rental Cars Website typically includes the following components and features:

- **Basic Website Interface:** The existing system features a simple website interface that displays available rental cars, including basic images, descriptions, prices, and car types (e.g., sedans, SUVs).
- **Limited Vehicle Listings:** The vehicle listings are categorized by type (e.g., compact, luxury, SUV) with minimal details such as car model, rental price, and availability.
- **User Registration and Login:** Customers can create an account and log in to manage their profile, saving rental preferences and viewing booking history.
- **Basic Search Functionality:** A basic search feature allows users to search for rental cars by location and dates, but the system may not offer advanced filters such as price range, car features, or specific location preferences.
- **Simplified Booking Process:** Users can add cars to their cart, view rental costs, and proceed to checkout with a limited number of payment options (e.g., credit or debit card). There may be no options for add-ons, such as GPS, child seats, or insurance packages.
- **Payment Processing:** The system integrates with basic payment gateways to process payments securely using credit/debit cards. However, there may be limited support for alternative payment methods, currency options, or regional payment preferences.

- **Order Confirmation and Communication:** After a booking is made, customers receive a basic confirmation email or message with rental details. Notifications might not include personalized reminders, updates on booking status, or any post-booking support.
- **Limited Delivery and Pickup Options:** Delivery and pickup options for the cars may be available, but users may not receive clear communication regarding estimated pickup times, vehicle location tracking, or real-time status updates for vehicle delivery.

## PROPOSED SYSTEM:

The proposed system for a \*Zoom Away Rental Cars Website\* typically includes the following components and features:

- **Enhanced Website Interface:** A modern, responsive website design will provide an intuitive and user-friendly experience across all devices. It will feature easy navigation and visually appealing layouts, ensuring seamless interaction for customers.
- **Detailed Vehicle Listings and Filtering:** Vehicle listings will include comprehensive details such as car features, fuel type, and high-quality images.
- **User Registration and Personalized Profiles:** Customers can create accounts to save preferences, booking history, and payment details. This will allow for faster future bookings and access to personalized promotions and booking reminders.
- **Advanced Search and Recommendations:** The system will provide an advanced search function with multiple filters, helping users find cars that best meet their needs. Personalized recommendations will also be available based on past bookings and preferences.
- **Seamless Booking and Payment Process:** The booking process will be streamlined, allowing users to select add-ons and complete payments securely through multiple payment gateways, including credit/debit cards and digital wallets.
- **Real-Time Vehicle Availability and Instant Confirmation:** Users will be able to view real-time car availability and receive immediate confirmation upon booking, ensuring accurate and up-to-date rental details.
- **Dynamic Delivery and Pickup Options:** Flexible and clear delivery and pickup options will be available, with real-time tracking and updates on vehicle status, ensuring a smooth rental experience.

- **Integrated Customer Support and Chatbots:** 24/7 customer support will be provided through live chat and AI-powered chatbots, offering immediate assistance with bookings, inquiries, and troubleshooting.
- **Mobile App Integration:** A mobile app will mirror the website's functionalities, allowing users to manage rentals on the go, with push notifications for offers, reminders, and updates.
- **Analytics and Reporting for Fleet Management:** The backend system will track vehicle usage, availability, and maintenance, providing real-time analytics to streamline fleet management and optimize operational efficiency.

## **SOFTWARE REQUIREMENTS:**

### **TECHNICAL REQUIREMENTS:**

- **HTML (HyperText Markup Language)**
- **CSS (Cascading Style Sheets)**
- **JavaScript : Purpose**

### **HARDWARE REQUIREMENTS:**

- **Web Servers:** High-performance web servers (such as Apache, Nginx, or IIS) are required to host the website and handle user requests. These servers should have sufficient processing power, RAM, and storage to manage high traffic and provide quick response times.
- **Database Servers:** A dedicated database server (e.g., MySQL, PostgreSQL) is necessary to store and manage large amounts of data, including customer profiles, booking details, vehicle information, and payment history.
- **Network Infrastructure:** A reliable and fast network infrastructure, including routers, switches, and firewalls, is essential to maintain secure and uninterrupted connectivity between the website, database, and other systems.
- **Backup Systems:** Backup hardware, such as external storage devices or cloud-based backup solutions, is critical to ensure data redundancy and prevent data loss in case of server failures or system crashes.
- **Load Balancers:** Load balancing hardware or services are necessary to distribute incoming traffic efficiently across multiple servers, ensuring that no single server is overloaded, thus maintaining optimal performance during peak usage.
- **Security Appliances:** Firewalls, intrusion detection systems (IDS), and intrusion prevention systems (IPS) should be in place to protect the system from unauthorized access, cyber threats, and data breaches, ensuring customer data and transactions remain secure.

- **Customer Interaction Devices:** For customer support, high-quality computers, tablets, or smartphones with internet access should be available to manage bookings, answer queries, and provide real-time assistance to users.

## ELEMENTS USED IN THE PROJECT:

### 1. User Interface (UI):

The project includes essential UI elements such as a navigation bar, car listings, search filters, booking forms, and interactive buttons. These components ensure that users can easily browse, select, and book rental cars.

### 2. Vehicle Listings and Database:

A database is used to store vehicle details such as car models, availability, rental prices, and specifications. The listings are displayed on the platform with images, descriptions, and pricing, making it easier for customers to choose a vehicle.

### 3. Payment Gateway Integration:

To facilitate secure and seamless online transactions, a payment gateway (such as PayPal, Stripe, or credit card processing) is integrated into the system, allowing users to pay for their bookings securely.

### 4. Search and Filter Functionality:

A search bar and filtering options (by price, car type, location, etc.) help users easily find the vehicle that fits their preferences. This functionality enhances the overall user experience by providing quick and accurate search results.

### 5. Booking Management System:

This system manages customer bookings, including car selection, payment processing, and order confirmation. It tracks rental dates, car availability, and customer details to ensure smooth operations.

### 6. Customer Profile Management:

A feature that allows users to create accounts, save their booking preferences, and track their rental history. This personalizes the user experience and helps streamline future bookings.

### 7. Fleet Management System:

The backend system that helps the rental company manage the fleet of vehicles. It tracks the availability, maintenance schedules, and pricing for each car, ensuring that customers only see available vehicles.

**8. Real-Time Availability System:**

This feature ensures that users see only available cars in real-time, preventing double bookings and ensuring accurate rental information.

**9. Notification System:**

Automated email or SMS notifications for booking confirmations, reminders, payment receipts, and other customer communications, ensuring users are kept informed at every stage of the rental process.

**10. Responsive Design:**

The platform uses responsive web design, ensuring the website adjusts for optimal viewing on various devices like desktops, tablets, and smartphones, providing flexibility and accessibility for all users.

**11. Customer Support Features:**

Live chat support or AI-powered chatbots help answer customer queries in real-time, improving the customer service experience. It may also include FAQs or ticketing systems for handling more complex issues.

**12. Security Features:**

SSL encryption and other security protocols protect sensitive customer data, such as personal information and payment details, ensuring a secure transaction environment. These elements come together to create a user-friendly, efficient, and secure car rental experience for both customers and administrators in the **Zoom Away Rental Cars** project.

## IMPLEMENTATION:

### CODE:

#### //review and rating page html code :

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Rental Car Reviews</title>

<style>

body {

    font-family: Arial, sans-serif;

    margin: 0;

    padding: 0;

    background-color: #f4f4f4;
```

}

header {

background-color: #007BFF;

color: white;

padding: 20px;

text-align: center;

}

.container {

width: 80%;

margin: 20px auto;

padding: 20px;

background-color: white;

border-radius: 8px;

box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);

}

h1, h2 {

color: #333;

}

.car-info {

margin-bottom: 20px;

padding: 15px;

border: 1px solid #007BFF;

border-radius: 5px;

background-color: #e0f7fa;

}

.review-form {

margin-top: 20px;

```
padding: 15px;  
  
border: 1px solid #007BFF;  
  
border-radius: 5px;  
  
background-color: #f9f9f9;  
  
}
```

```
.review-item {  
  
background-color: #f1f1f1;  
  
margin: 10px 0;  
  
padding: 10px;  
  
border-left: 5px solid #007BFF;  
  
border-radius: 5px;  
  
}
```

```
.rating {  
  
color: gold;
```

```
}
```

```
.submit-button {  
background-color: #007BFF;  
  
color: white;  
  
border: none;  
  
padding: 10px 15px;  
  
border-radius: 5px;  
  
cursor: pointer;  
}
```

```
.submit-button:hover {
```

```
background-color: #0056b3;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>

<header>

    <h1>Rental Car Reviews</h1>

</header>

<div class="container">

    <div class="car-info">

        <h2>Car Model: Toyota Camry</h2>

        <p><strong>Type:</strong> Midsize Sedan</p>

        <p><strong>Description:</strong> A comfortable and reliable car, perfect for
long trips and city driving.</p>

    </div>

    <h2>User Reviews</h2>

    <div id="reviews">

        <div class="review-item">
```

```
<p><strong>John Doe</strong> <span  
class="rating"> ★ ★ ★ ★ ★ </span></p>
```

```
<p>Great experience! The car was in excellent condition and very  
comfortable.</p>
```

```
</div>
```

```
<div class="review-item">
```

```
<p><strong>Jane Smith</strong> <span  
class="rating"> ★ ★ ★ ★ </span></p>
```

```
<p>Good value for money. I would definitely rent again.</p>
```

```
</div>
```

```
</div>
```

```
<div class="review-form">
```

```
<h2>Leave a Review</h2>
```

```
<form id="reviewForm">
```

```
<label for="name">Name:</label><br>
```

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

```
<label for="rating">Rating:</label><br>

<select id="rating" required>

    <option value="5">  </option>

    <option value="4">  </option>

    <option value="3">  </option>

    <option value="2">  </option>

    <option value="1">  </option>

</select><br><br>

<label for="review">Review:</label><br>

<textarea id="review" rows="4" required></textarea><br><br>

<button type="submit" class="submit-button">Submit Review</button>

</form>

</div>

</div>
```

```
<script>
```

```
document.getElementById('reviewForm').addEventListener('submit
```

### //Home page css code:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Rental Car Service</title>
<style>
body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 0;
    background-color: #f4f4f4;
}

header {
    background-color: #007BFF;
    color: white;
    padding: 20px;
    text-align: center;
}
```

```
nav {  
    margin: 20px 0;  
}  
  
nav a {  
    color: white;  
    margin: 0 15px;  
    text-decoration: none;  
}  
  
.container {  
    width: 80%;  
    margin: 0 auto;  
    padding: 20px;  
    background-color: white;  
    border-radius: 8px;  
    box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);  
}  
  
h1 {  
    text-align: center;  
    color: #333;  
}  
  
.car-list {  
    display: flex;  
    flex-wrap: wrap;  
    justify-content: space-between;
```

```
    }
```

```
.car-item {  
background-color: #e0f7fa;  
border: 1px solid #007BFF;  
border-radius: 5px;  
margin: 10px;  
padding: 20px;  
flex: 1 1 30%;  
box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);  
transition: transform 0.2s;  
}  
  
.car-item:hover {  
transform: scale(1.05);  
}  
  
footer {  
text-align: center;  
padding: 20px;  
background-color: #007BFF;  
color: white;  
position: relative;  
bottom: 0;  
width: 100%;  
}  
</style>  
</head>  
<body>
```

```
<header>
  <h1>Welcome to Our Rental Car Service</h1>
  <nav>
    <a href="#">Home</a>
    <a href="#">About Us</a>
    <a href="#">Services</a>
    <a href="#">Contact</a>
  </nav>
</header>

<div class="container">
  <h2>Available Rental Cars</h2>
  <div class="car-list">
    <div class="car-item">
      <h3>Economy Car</h3>
      <p>Affordable and fuel-efficient for city driving.</p>
    </div>
    <div class="car-item">
      <h3>SUV</h3>
      <p>Spacious and perfect for family trips.</p>
    </div>
    <div class="car-item">
      <h3>Luxury Car</h3>
      <p>Experience comfort and style on the road.</p>
    </div>
    <div class="car-item">
      <h3>Convertible</h3>
      <p>Enjoy the open air with a stylish convertible.</p>
    </div>
  </div>
</div>
```

```

</div>

<div class="car-item">
    <h3>Pickup Truck</h3>
    <p>Great for hauling and off-road adventures.</p>
</div>

<div class="car-item">
    <h3>Minivan</h3>
    <p>Ideal for larger groups and family vacations.</p>
</div>

</div>

</div>

<footer>
    <p>&copy; 2023 Rental Car Service. All rights reserved.</p>
</footer>

</body>
</html>

```

### // Calculation page javascript code

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Rental Car Service</title>
    <style>
        body {

```

```
font-family: Arial, sans-serif;  
margin: 0;  
padding: 0;  
background-color: #f4f4f4;  
}
```

```
header {  
background-color: #007BFF;  
color: white;  
padding: 20px;  
text-align: center;  
}
```

```
nav {  
margin: 20px 0;  
}
```

```
nav a {  
color: white;  
margin: 0 15px;  
text-decoration: none;  
}
```

```
.container {  
width: 80%;  
margin: 0 auto;  
padding: 20px;  
background-color: white;  
border-radius: 8px;
```

```
    box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);  
}  
  
h1 {  
    text-align: center;  
    color: #333;  
}  
  
.car-list {  
    display: flex;  
    flex-wrap: wrap;  
    justify-content: space-between;  
}  
  
.car-item {  
    background-color: #e0f7fa;  
    border: 1px solid #007BFF;  
    border-radius: 5px;  
    margin: 10px;  
    padding: 20px;  
    flex: 1 1 30%;  
    box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);  
    transition: transform 0.2s;  
}  
  
.car-item:hover {  
    transform: scale(1.05);  
}
```

```
footer {  
    text-align: center;  
    padding: 20px;  
    background-color: #007BFF;  
    color: white;  
    position: relative;  
    bottom: 0;  
    width: 100%;  
}  
</style>  
</head>  
<body>  
  
<header>  
    <h1>Welcome to Our Rental Car Service</h1>  
    <nav>  
        <a href="#">Home</a>  
        <a href="#">About Us</a>  
        <a href="#">Services</a>  
        <a href="#">Contact</a>  
    </nav>  
</header>  
  
<div class="container">  
    <h2>Available Rental Cars</h2>  
    <div class="car-list">  
        <div class="car-item">  
            <h3>Economy Car</h3>  
            <p>Affordable and fuel-efficient for city driving.</p>
```

```
</div>

<div class="car-item">
    <h3>SUV</h3>
    <p>Spacious and perfect for family trips.</p>
</div>

<div class="car-item">
    <h3>Luxury Car</h3>
    <p>Experience comfort and style on the road.</p>
</div>

<div class="car-item">
    <h3>Convertible</h3>
    <p>Enjoy the open air with a stylish convertible.</p>
</div>

<div class="car-item">
    <h3>Pickup Truck</h3>
    <p>Great for hauling and off-road adventures.</p>
</div>

<div class="car-item">
    <h3>Minivan</h3>
    <p>Ideal for larger groups and family vacations.</p>
</div>

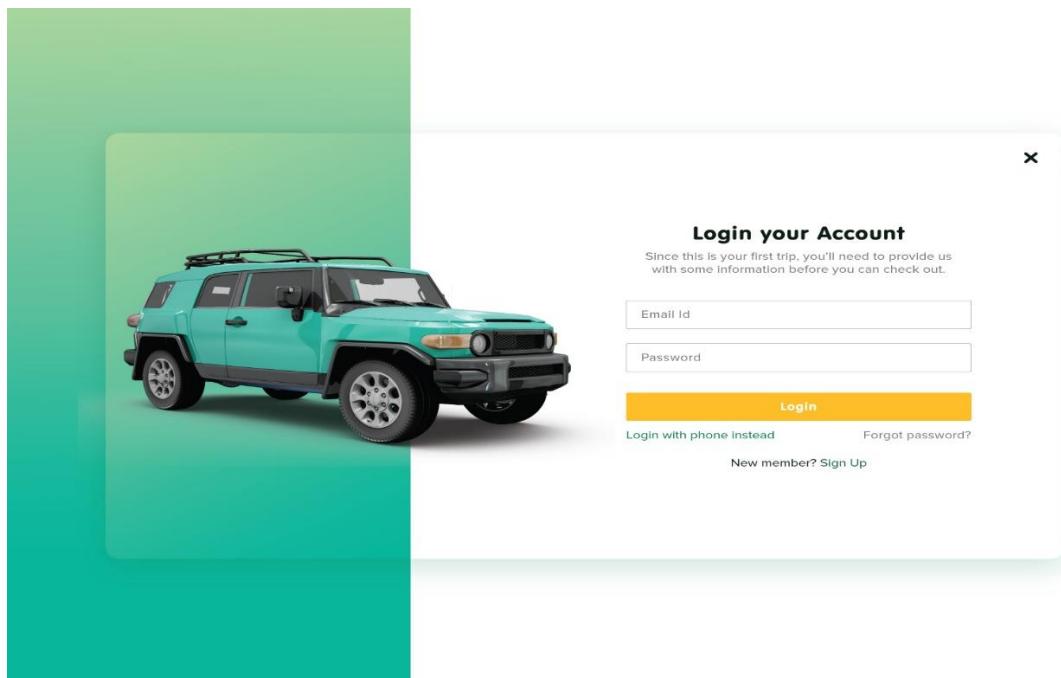
</div>

<footer>
    <p>&copy; 2023 Rental Car Service. All rights reserved.</p>
</footer>

</body>
```

</html>

## DESIGN:



Search for a car

**Tesla Model X**  
Price per hour: \$150.00

**Hyundai Tucson**  
Price per hour: \$20.00

**Tata harrier**  
Price per hour: \$20.00

# #1 Car Rent Service

Sample text. Click to select the text box. Click again or double click to start editing the text.

BOOK NOW

## About Us

Sample text. Click to select the text box.  
Click again or double click to start  
editing the text.

MORE

## Quick Tips

Sample text. Click to select the text box.  
Click again or double click to start  
editing the text.

MORE

## Quality Service

Sample text. Click to select the text box.  
Click again or double click to start  
editing the text.

MORE



# Rental Car Price Calculator

Select Car Type:

SUV (\$70/day)

Enter Rental Duration (in days):

4

Calculate Price

Total Price: \$280.00

This image shows a screenshot of a web-based rental car price calculator. At the top, the title "Rental Car Price Calculator" is displayed in a large, bold, black font. Below it, a section labeled "Select Car Type:" has a dropdown menu open, showing the option "SUV (\$70/day)". Next, a section labeled "Enter Rental Duration (in days):" contains an input field with the number "4" entered. A blue button labeled "Calculate Price" is positioned above a light gray box. Inside this box, the text "Total Price: \$280.00" is displayed, with a small cursor icon pointing towards the end of the dollar amount.

## CONCLUSION:

The **Zoom Away Rental Cars** project provides a transformative approach to car rentals, aiming to meet the growing demands of customers who expect convenience, flexibility, and efficiency in their service experiences. By incorporating a user-friendly interface, detailed vehicle listings, advanced search and filtering options, and seamless booking processes, the platform delivers an exceptional customer experience. Additionally, the integration of secure payment gateways ensures safe transactions, while real-time availability updates and dynamic booking management guarantee smooth operations.

On the administrative side, the system enhances fleet management, helping businesses track vehicle usage, availability, and maintenance schedules more efficiently. The inclusion of personalized user profiles and automated communication ensures a tailored experience for customers, increasing their satisfaction and encouraging repeat bookings.

Furthermore, the mobile-friendly design ensures that users can access the service anytime, anywhere, while the integrated customer support system enables quick resolution of queries, making the platform more accessible and responsive. With its secure, scalable, and user-centric features, Zoom Away Rental Cars has the potential to revolutionize the car rental industry by providing a reliable, efficient, and seamless service for both customers and businesses, setting a new standard in the market.