

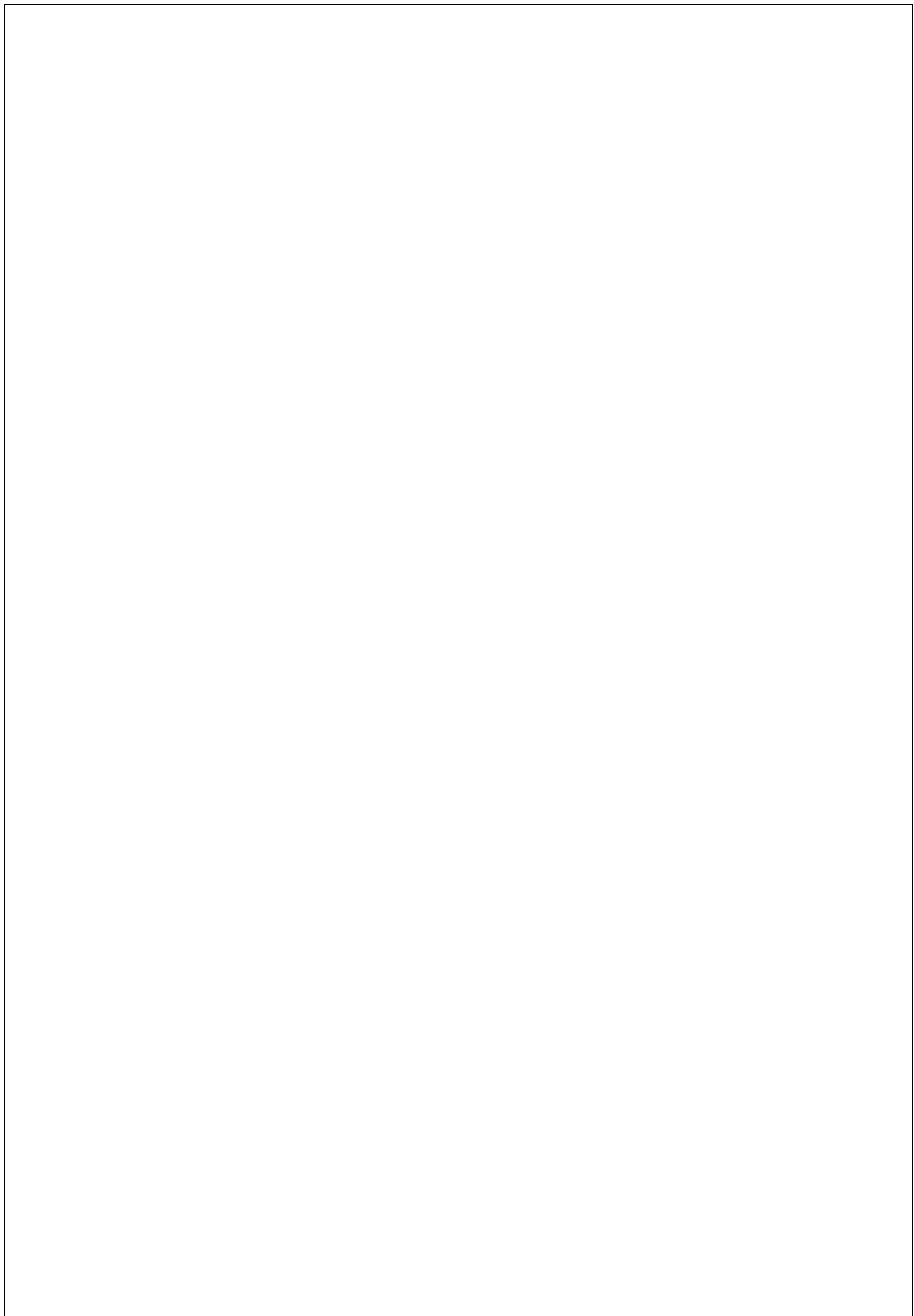


WAPP Group Assignment

Module Code and title:	CT050-3-2-WAPP-Web Applications
Title:	AutoSpectacle
Intake Code:	UC2F2008IT(IOT)(BIS)(ISS)/APU2F2008IT(FT)
Lecturer:	Dr. Lai Ngan Kuen
Hand Out Date:	23/02/2023
Hand in Date:	04/06/2023
Group Members:	Marvin Lee Jiao Hao (TP056141) Kugenath Ratnasingam (TP068005) Akbarov Amirjon (TP060483) Niyozov Feruz Nodir Ugli (TP061846)

TABLE OF CONTENTS

1.0 Introduction.....	4
1.1 Objectives.....	4
1.2 Scopes.....	5
1.3 Project Plan/Schedule.....	5
2.0 Requirement Specification	5
2.1 Audience Modelling	6
2.2 Use Case(s).....	8
2.3 Flow Chart(s).....	8
3.0 Design and Modeling	12
3.1 Entity Relationship Diagram (ERD)	12
3.2 Wireframes for major layouts of the web pages.....	12
3.3 Website Navigational Structure	14
4.0 Implementation	15
4.1 Create	15
4.2 Read.....	22
4.3 Update	26
4.4 Delete	27
4.5 Login	27
4.6 Log out	30
4.7 Form Validation	30
5.0 User Guidance	33
5.2 Extra Features	41
6.0 Conclusion	42
6.1 Advanced Search and Comparison Features:	42
6.2 Integration with Dealerships:	42
6.3 Personalized User Experiences:	42
6.4 Mobile Application Development:	42
6.5 Community Features:	42
7.0 References.....	42
8.0 Appendix	43
Introduction.....	43
Website Title	43



1.0 Introduction

1.1 Objectives

Company Logo



Our "AutoSpectacle" initiative intends to develop a user-friendly, dynamic, and comprehensive website for car enthusiasts and prospective vehicle purchasers. This project's scope encompasses user and administrator functions for account management, automobile searching and comparison, and news updates. The undertaking began on 06/05/2023 and concluded on 01/06/2023.

Mission

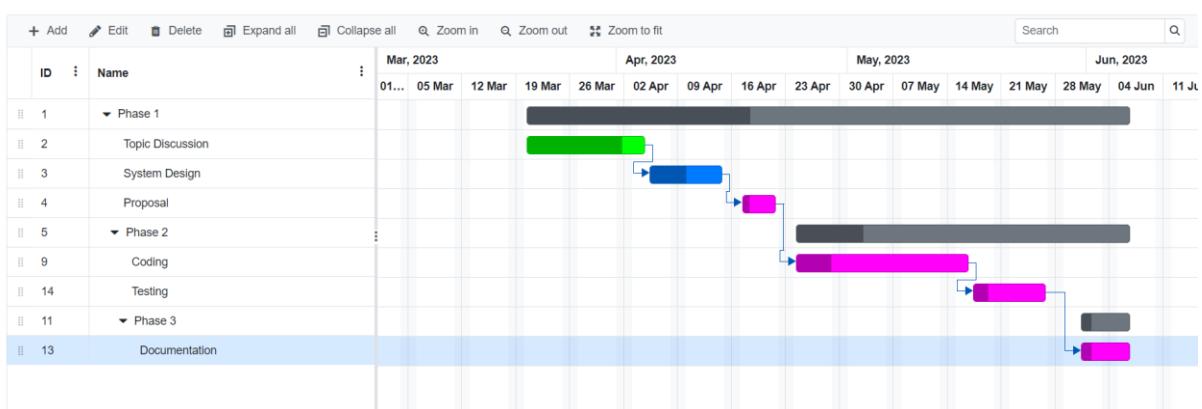
AutoSpectacle objective is to bring Malaysian vehicle aficionados the most recent news, reviews, and insights into the automotive sector. We try to provide interesting material that informs, entertains, and inspires our audience, all while cultivating a community of dedicated Malaysian automobile lovers. AutoSpectacle mission is to become Malaysia's go-to source for automobile enthusiasts, providing them with the tools and information they need to stay informed and engaged with the local automotive sector. We also hope to help and promote the expansion of Malaysia's automotive sector by highlighting local talent and industry breakthroughs on our platform.

1.2 Scopes

This platform was created and designed to assist users so that they can save their favorite car listings, compare different cars and receive notifications about new listings or price drops. Other than that, each car listing can have a dedicated page with detailed information about the car including specifications, features, and seller contact information. This car webpage is easy to navigate and user-friendly.

1.3 Project Plan/Schedule

Gantt Chart



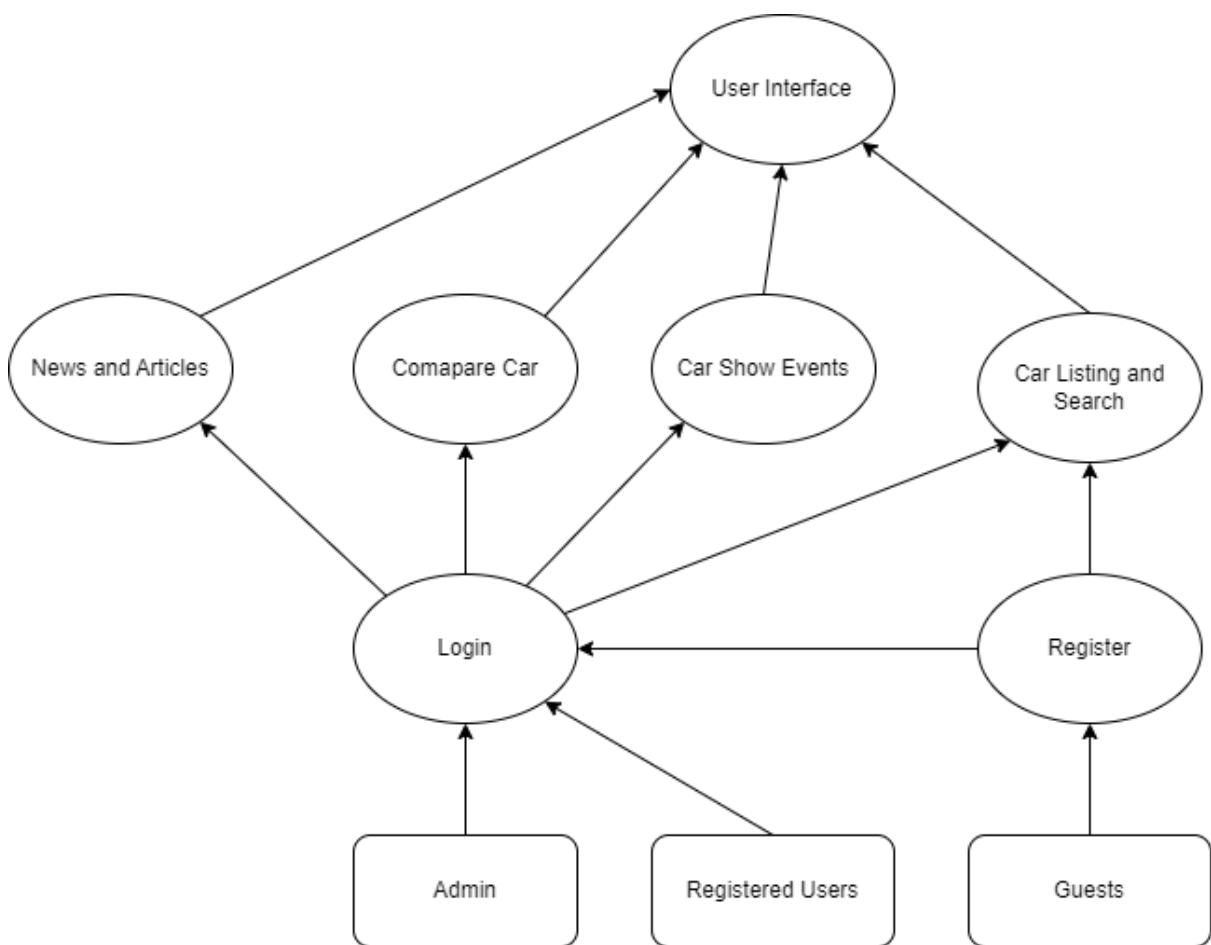
Work Breakdown Structure

Student name	TP number	Documentation	Coding
Marvin Lee Jiao Hao	TP056141	7%	7%
Kugenath Ratnasingam	TP068005	31%	31%
Akbarov Amirjon AKM	TP060483	31%	31%
Niyozov Feruz Nodir Ugli	TP061846	31%	31%

2.0 Requirement Specification

Our primary audience consists of individuals interested in purchasing automobiles, comparing automobile models, and keeping abreast of the most recent automobile news. The primary functions of the web application include user registration and authentication, administration of user information, vehicle searching and comparison, and dissemination of the most recent news.

2.1 Audience Modelling



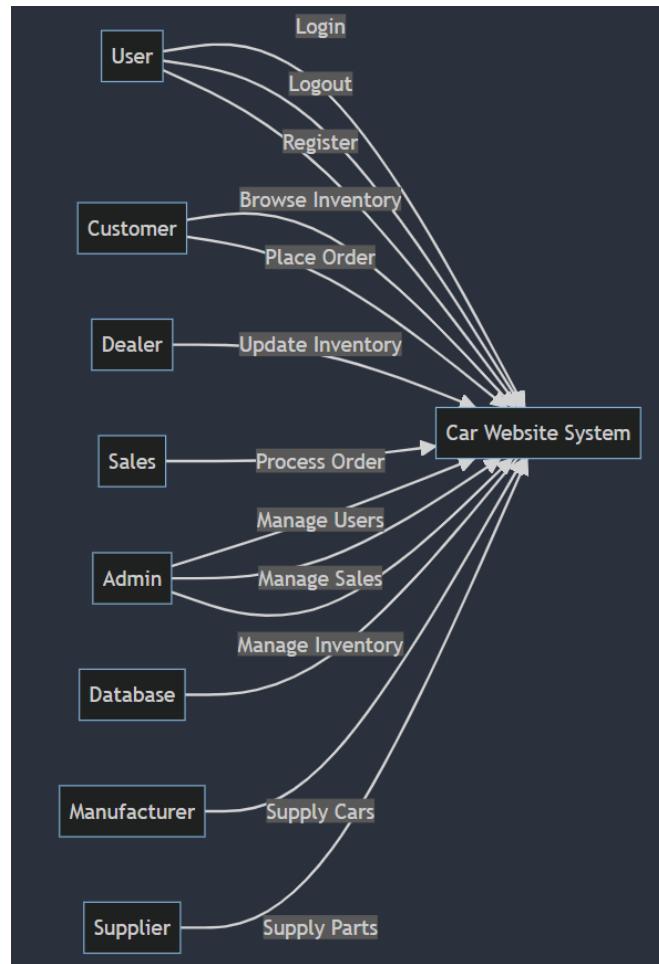
The basic diagram shows the website outlines three user roles: Guests, Registered Users, and Admins. Each role has specific features and access levels, which are described below.

1. Guests: Guests are unregistered users who visit your website. They have limited access to the site's features, mainly focused on exploring the car listings and the opportunity to register for an account. The User Interface for guests includes:
 - Registration: Guests can create an account to become Registered Users and gain access to additional features on the website.
 - Car Listing and Search: Guests can view and search through the available car listings to learn more about specific makes and models.

2. Registered Users: Registered Users have more extensive access to the website after successfully logging in. They can access various panels in addition to the basic User Interface shared with Guests. The features available to Registered Users include:
 - News and Articles: Users can stay informed about the latest automotive news, trends, and articles related to cars and car shows.
 - Compare Car: Users can compare different car models side-by-side, analyzing their specifications, features, and ratings.
 - Car Show Events: Users can browse through upcoming car show events, find details, and register to attend or participate.
3. Admins: Admins are responsible for managing the website's content and users. They have the same access as Registered Users, but they also have access to an Admin Panel with additional features for managing the website. The Admin Panel includes:
 - Manage Users: Admins can view, add, edit, or delete user accounts, as well as manage user roles and permissions.
 - Manage Cars: Admins can manage car listings by adding, editing, or deleting information about specific makes and models.
 - Manage Events: Admins can create, edit, or delete car show events and manage event details, such as dates, locations, and descriptions.
 - Manage Reviews: Admins can oversee user reviews and ratings, as well as edit or remove inappropriate content.
 - Manage Images: Admins can upload, edit, or delete images related to cars, events, or other website content.
 - Manage News and Articles: Admins can create, edit, or delete news articles and other informational content published on the website.

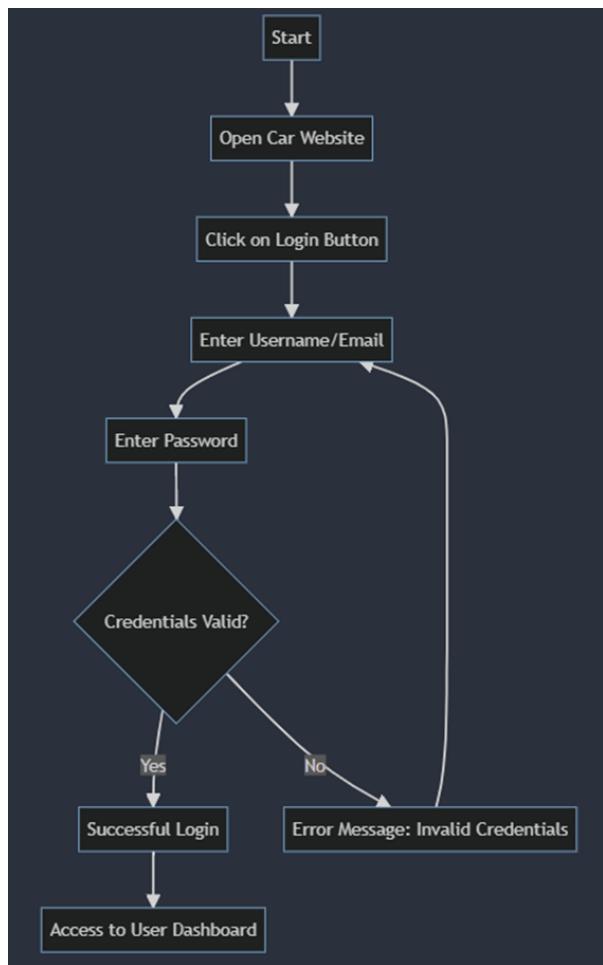
The diagram illustrates the hierarchical structure of user roles and their corresponding access levels. This organization helps maintain a secure and efficient website, ensuring that each user has access to the appropriate features and content based on their role.

2.2 Use Case(s)

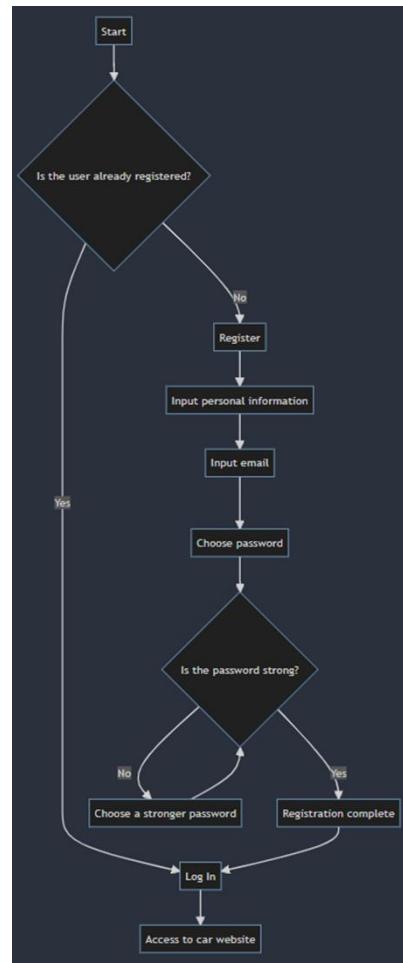


2.3 Flow Chart(s)

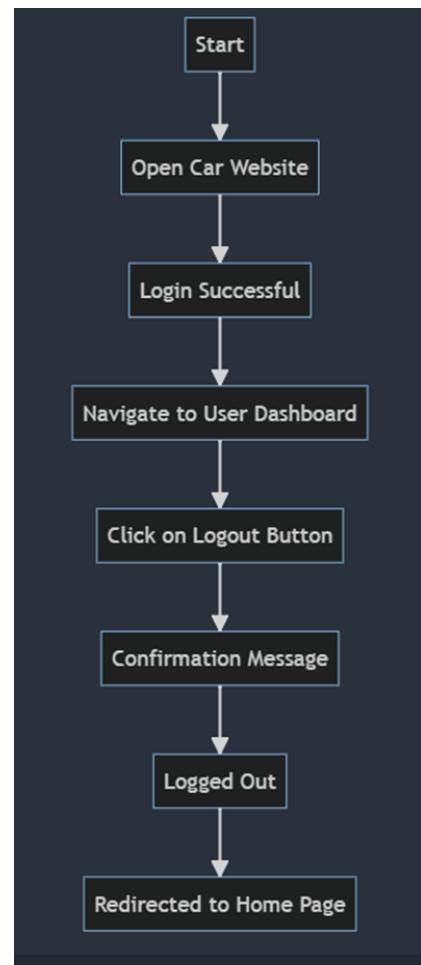
Login



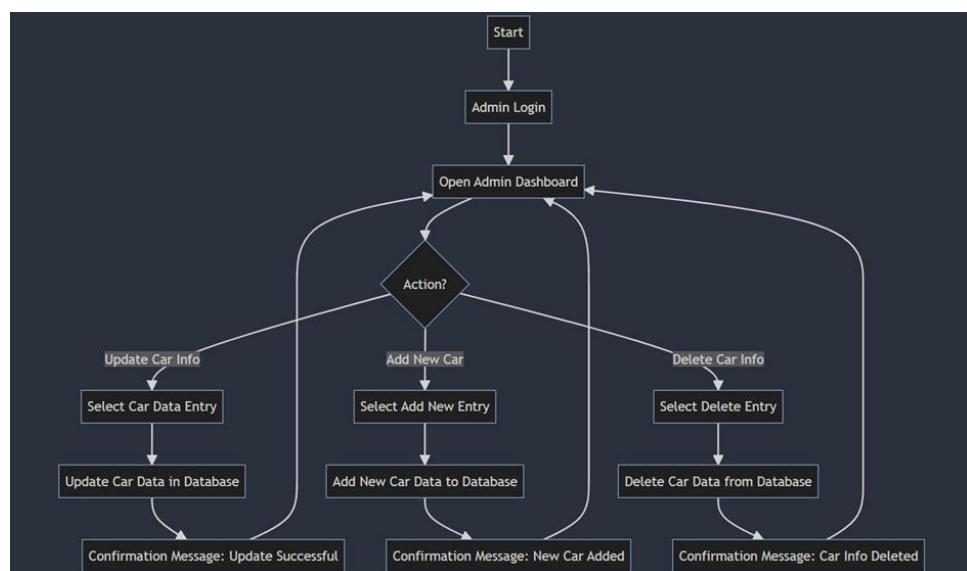
Register



Logout



Admin and Database



3.0 Design and Modeling

3.1 Entity Relationship Diagram (ERD)



3.2 Wireframes for major layouts of the web pages

Welcome page

Welcome to My Car Website

About Us
This is a website dedicated to car enthusiasts. We offer various services, including car reviews, dealership contacts, and car maintenance tips.

Our Services
Here at My Car Website, we are dedicated to providing you with the most up-to-date information about cars, car dealerships, and car maintenance.

Copyright © 2023 My Car Website

Sign up page

Username

Enter Username

Email

Enter Email

Password

Enter Password

Register

Login Page

Username

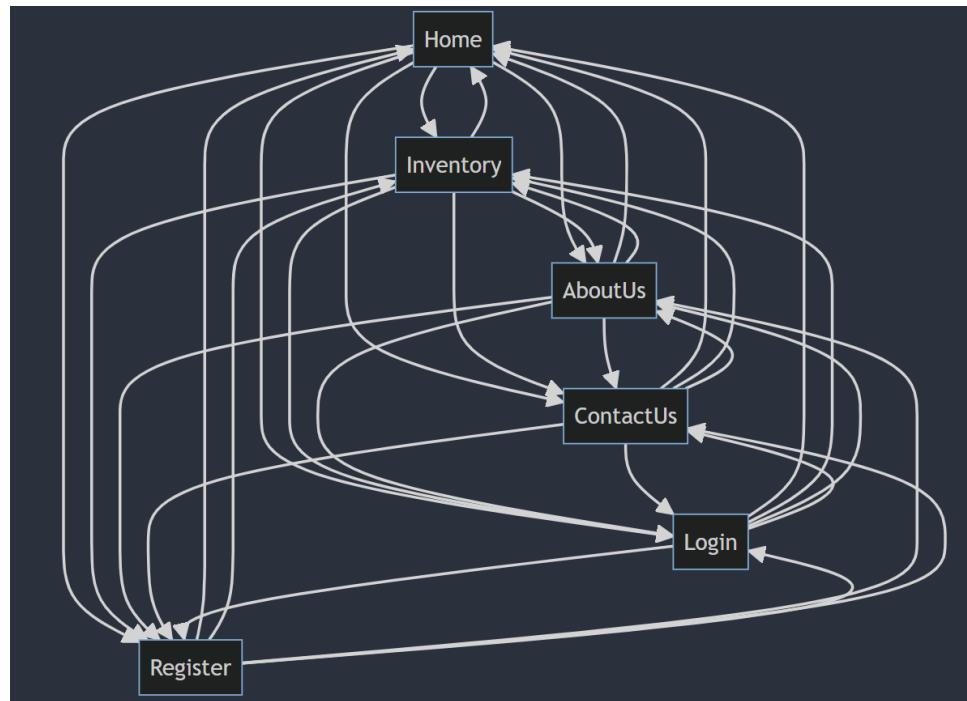
Enter Username

Password

Enter Password

Login

3.3 Website Navigational Structure



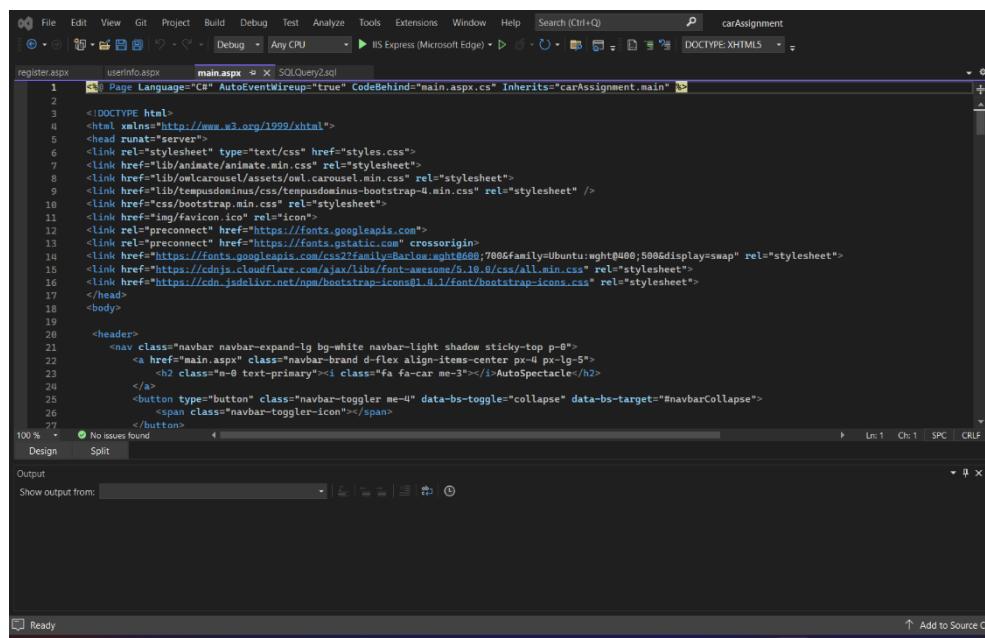
This is our car website navigational structure on the above diagram.

4.0 Implementation

The application was developed with an emphasis on usability and performance, utilizing Microsoft Visual Studio Community 2022 (64-bit).

4.1 Create

main.aspx



A screenshot of the Microsoft Visual Studio Community 2022 interface. The title bar shows "IIS Express (Microsoft Edge)" and "DOCTYPE: XHTML". The code editor window displays the "main.aspx" file with the following content:

```
1 <!DOCTYPE html>
2 <html xmlns="http://www.w3.org/1999/xhtml">
3 <head runat="server">
4   <link rel="stylesheet" type="text/css" href="styles.css" />
5   <link href="lib/animate/animate.min.css" rel="stylesheet" />
6   <link href="lib/timedonim/timedonim/bootstrap-4.min.css" rel="stylesheet" />
7   <link href="css/bootstrap.min.css" rel="stylesheet" />
8   <link href="css/fontawesome/all.min.css" rel="stylesheet" />
9   <link href="css/fontawesome/fontawesome-all.min.css" rel="stylesheet" />
10  <link href="css/fontawesome/fontawesome-v4.min.css" rel="stylesheet" />
11  <link href="img/favicon.ico" rel="icon" />
12  <link rel="preconnect" href="https://fonts.googleapis.com">
13  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
14  <link href="https://fonts.googleapis.com/css2?family=Barlow:wght@600;700&family=Ubuntu:wght@400;500&display=swap" rel="stylesheet">
15  <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.10.0/css/all.min.css" rel="stylesheet" />
16  <link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.1.1/font/bootstrap-icons.css" rel="stylesheet" />
17 </head>
18 <body>
19
20   <header>
21     <nav class="navbar navbar-expand-lg bg-white navbar-light shadow sticky-top p-0">
22       <a href="main.aspx" class="navbar-brand d-flex align-items-center px-4 px-lg-5">
23         <h2 class="m-0 text-primary"><i class="fa fa-car m-0" style="font-size: 1.5em; color: #007bff; vertical-align: middle; margin-right: 0.5em;"></i>AutoSpectacle</h2>
24       </a>
25       <button type="button" class="navbar-toggler me-4" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent">
26         <span class="navbar-toggler-icon"></span>
27       </button>
28     </nav>
29   </header>
30   <div id="mainContent" class="container py-4">
31     <div class="row justify-content-center">
32       <div class="col-12 col-md-8 col-lg-6">
33         <div class="card border-0 shadow mb-4">
34           <div class="card-body p-4">
35             <div class="mb-3">
36               <div class="form-group">
37                 <label for="username" class="form-label">User NamePasswordConfirm PasswordEmailPhoneAddressCityStateZipCountryLanguage
```

This is an HTML page containing CSS and JavaScript code to show the website with headers and sections.

The HTML code contains standard tags such as! DOCTYPE html>, html>, head>, title>, body>, and so forth. The head> section provides document metadata like as character encoding, headers, and links to CSS stylesheets.

The `<body>` section contains the site's content, beginning with the header, which contains the logo and navigation bar. The `<section>` element is used to designate the website's slideshow section.

Register.aspx

```
File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Search(Ctrl+Q) 🔍 carAssignment
register.aspx ✘ userinf.aspx main.aspx S(?) Query2.aspx
31
32
33
34 ⏷ <header>
35 ⏷   <nav class="navbar navbar-expand-lg bg-white navbar-light shadow sticky-top p-0">
36 ⏷     <a href="#" class="navbar-brand d-flex align-items-center pre4 px-5">
37 ⏷       <img alt="text-danger" /> <small>car - m-2</small> / Autoprice </a>
38 ⏷   </nav>
39 ⏷   <button type="button" class="navbar-toggler me-4" data-bs-toggle="collapse" data-bs-target="#navbarCollapse">
40 ⏷     <span class="navbar-toggler-icon"></span>
41 ⏷   </button>
42 ⏷   <div class="collapse navbar-collapse" id="navbarCollapse">
43 ⏷     <div class="navbar-nav ms-auto p-0 lg-0" style="list-style-type: none; position: relative; z-index: 1000;">
44 ⏷       <a href="#" class="nav-item nav-link active" href="#">HomeSearch carLast NewsCompare CarLoginUserRegister</h1>
60 ⏷     </div>
61 ⏷     <div class="col-md-12">
62 ⏷       <div class="wow fadeInUp" data-wow-delay="0.2s">
63 ⏷         <form id="registerForm" runat="server">
64 ⏷           <div class="g-3" style="border: 1px solid #ccc; padding: 10px; border-radius: 10px; margin-bottom: 10px;">
65 ⏷             <div class="form-floating">
66 ⏷               <input type="text" class="form-control" id="name" name="name" placeholder="Your Name" style="width: 100%; height: 40px; border-radius: 10px; border: 1px solid #ccc; padding: 5px; margin-bottom: 5px;" />
67 ⏷             </div>
68 ⏷           </div>
69 ⏷           <div class="text-center">
70 ⏷             <button type="submit" class="btn btn-primary" style="width: 150px; height: 40px; border-radius: 10px; border: 1px solid #ccc; background-color: #f0f0f0; color: #007bff; font-weight: bold; font-size: 14px; padding: 5px; margin-top: 10px;">Register</button>
71 ⏷           </div>
72 ⏷         </form>
73 ⏷       </div>
74 ⏷     </div>
75 ⏷   </div>
76 ⏷ </div>
77 ⏷ </body>
78 ⏷ </html>
```

This is the source code for the register.aspx. the following shows the partial code display for the register.aspx:

```
<div class="container-xxl py-5">  
  <div class="container">  
    <div class="text-center wow fadeInUp" data-wow-delay="0.1s">  
      <h6 class="text-primary text-uppercase">// Join Us //</h6>  
      <h1 class="mb-5">Register</h1>  
    </div>  
    <div class="col-md-12">  
      <div class="wow fadeInUp" data-wow-delay="0.2s">
```

```
<form id="registerForm" runat="server">

    <div class="row g-3">

        <div class="col-md-6">

            <div class="form-floating">

                <input type="text" class="form-control" id="name" name="name"
placeholder="Your Name">

                <label for="name">Full Name</label>

            </div>

        </div>

        <div class="col-md-6">

            <div class="form-floating">

                <input type="email" class="form-control" id="email" name="email"
placeholder="Your Email">

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

            </div>

        </div>

        <div class="col-md-6">

            <div class="form-floating">

                <input type="text" class="form-control" id="phone" name="phone"
placeholder="Your phone">

                <label for="name">Phone</label>

            </div>

        </div>

        <div class="col-md-6">

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

```
<input type="text" class="form-control" id="address"
name="address" placeholder="Your address">

<label for="name">address</label>

</div>

</div>

<div class="col-md-6">

<div class="form-floating">

<input type="password" class="form-control" id="password"
name="password" placeholder="Your Password">

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

</div>

</div>

<div class="col-md-6">

<div class="form-floating">

</div>

</div>

<div class="col-12">

<button class="btn btn-primary w-100 py-3" type="submit"
runat="server" onserverclick="Register_Click">Register</button>

</div>

<asp:Label ID="lblMessage" runat="server"
CssClass="message"></asp:Label>
```

login.aspx

```

26     footer {
27         margin-top: auto;
28     }
29 
```

This is the login.aspx file. Below shows a fraction of the source code:

```

<div class="container-xxl py-5">

<div class="container">

    <div class="text-center wow fadeInUp" data-wow-delay="0.1s">

        <h6 class="text-primary text-uppercase">// Login //</h6>

        <h1 class="mb-5">Login</h1>

    </div>

    <div class="col-md-12">

        <div class="wow fadeInUp" data-wow-delay="0.2s">

            <form id="loginForm" runat="server">

                <div class="row g-3">

                    <div class="col-md-12">

                        <div class="form-floating">

                            <asp:TextBox ID="txtEmail" runat="server" CssClass="form-control"
placeHolder="Enter email"></asp:TextBox>

                            <label for="txtEmail">Email</label>

```

```
</div>

</div>

<div class="col-md-12">

    <div class="form-floating">

        <asp:TextBox ID="txtPassword" runat="server" CssClass="form-control" TextMode="Password" placeholder="Enter password"></asp:TextBox>

        <label for="txtPassword">Password</label>

    </div>

    </div>

    <div class="col-12">

        <a href="register.aspx" class="nav-item nav-link">Register</a>

    </div>

    <div class="col-12">

        <asp:Button ID="btnLogin" runat="server" Text="Login" CssClass="btn btn-primary" OnClick="Login_Click" />

    </div>

    <asp:Label ID="lblMessage" runat="server" CssClass="message"></asp:Label>

    </div>


```

compareCar.aspx

```

34 .card {
35   width: 370px;
36   border-radius: 5px 5px 0px 0px;
37   padding-top: 10px;
38   padding-bottom: 10px;
39 }
40 
41 .card-img-top {
42   background-color: #f0f0f0;
43   height: 200px;
44   object-fit: cover;
45   width: 100%;
46 }
47 
48 .card-body {
49   padding: 15px;
50   width: 100%;
51   height: 100px;
52   border: 0.1px solid lightgrey;
53   border-radius: 0px 0px 5px 5px;
54 }
55 
56 .card-title {
57   font-size: 18px;
58   font-weight: bold;
59 }
60 
61 .card-text {
62   font-size: 14px;
63 }
64 
65 .btn-primary {
66   margin-top: 10px;
67 }
68 .card-img-top {
69   height: 200px;
70   object-fit: cover;
71 }

```

Below shows a fraction of the source code:

```

</div>

<div class="container mt-5">

<h3 class="text-center mb-4">Result:</h3>

<div class="row">

<asp:Repeater ID="carComparisonRepeater" runat="server">

<ItemTemplate>

<div class="col-md-6">

<div class="card mb-3">

<img class="card-img-top" src='<%# ResolveUrl(DataBinder.Eval(Container.DataItem, "carImage")) %>' alt="Car Image">

<div class="card-body">

<h5 class="card-title"><%# Eval("carName") %></h5>

<p class="card-text">Car Type: <%# Eval("carType") %></p>

<p class="card-text">Price: <%# Eval("price") %></p>

<p class="card-text">Trims: <%# Eval("trims") %></p>

<p class="card-text">Engines: <%# Eval("engines") %></p>

<p class="card-text">Horsepower: <%# Eval("horsepower") %></p>

<p class="card-text">Transmissions: <%# Eval("transmissions") %></p>

<p class="card-text">Drivetrains: <%# Eval("drivetrains") %></p>

<p class="card-text">MPG/MPGe: <%# Eval("mpg_mpge") %></p>

</div>

</div>

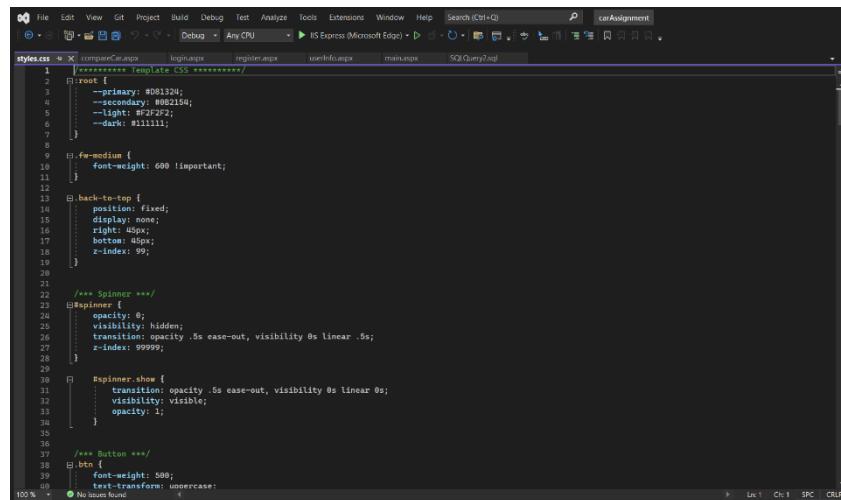
```

```

    </div>
</ItemTemplate>
</asp:Repeater>

```

4.2 Read

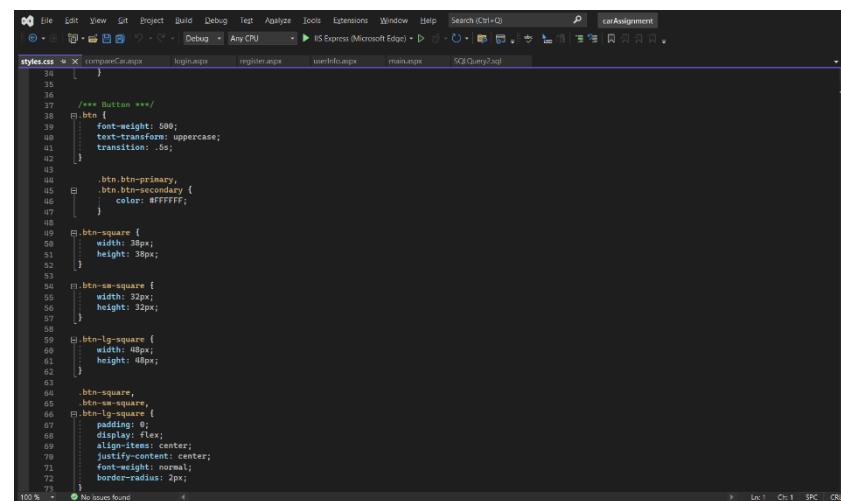


The screenshot shows the Microsoft Edge browser window with the URL "carAssignment" in the address bar. The main content area displays a simple form with input fields for "Car Model" and "Color". Below the form is a large button labeled "Search". The browser's developer tools are open, specifically the "Elements" tab, which is displaying the "styles.css" file. The CSS code is as follows:

```

/*
***** Template CSS *****/
1 .root {
2     --primary: #008329;
3     --secondary: #008329154;
4     --light: #F9F9F9;
5     --dark: #111111;
6 }
7
8 El fw-medium {
9     font-weight: 600 !important;
10}
11
12 El back-to-top {
13     position: fixed;
14     display: none;
15     right: 45px;
16     bottom: 15px;
17     z-index: 99;
18 }
19
20
21 /**
22  * Spinner
23 */
24 El#spinner {
25     opacity: 0;
26     visibility: hidden;
27     transition: opacity .5s ease-out, visibility 0s linear .5s;
28     z-index: 9999;
29 }
30 El#spinner.show {
31     transition: opacity .5s ease-out, visibility 0s linear 0s;
32     visibility: visible;
33     opacity: 1;
34 }
35
36 /**
37  * Button
38 */
39 El btn {
40     font-weight: 500;
41     text-transform: uppercase;
42 }
43
44 .btn.btn-primary,
45 .btn.btn-primary:disabled {
46     color: #FFFFFF;
47 }
48
49 .btn-square {
50     width: 38px;
51     height: 38px;
52 }
53
54 El.btn-sm-square {
55     width: 32px;
56     height: 32px;
57 }
58
59 El.btn-lg-square {
60     width: 48px;
61     height: 48px;
62 }
63
64 .btn-square,
65 .btn-sm-square {
66     padding: 0;
67     display: flex;
68     align-items: center;
69     justify-content: center;
70     font-weight: normal;
71     border-radius: 2px;
72 }
73

```



This screenshot shows the same Microsoft Edge browser window and developer tools setup as the previous one, but the "Elements" tab now displays a different part of the "styles.css" file. The visible code is as follows:

```

35
36 /**
37  * Button
38 */
39 El btn {
40     font-weight: 500;
41     text-transform: uppercase;
42     transition: .5s;
43 }
44
45 .btn.btn-primary,
46 .btn.btn-primary:disabled {
47     color: #FFFFFF;
48 }
49
50 .btn-square {
51     width: 38px;
52     height: 38px;
53 }
54
55 El.btn-sm-square {
56     width: 32px;
57     height: 32px;
58 }
59
60 El.btn-lg-square {
61     width: 48px;
62     height: 48px;
63 }
64
65 .btn-square,
66 .btn-sm-square {
67     padding: 0;
68     display: flex;
69     align-items: center;
70     justify-content: center;
71     font-weight: normal;
72     border-radius: 2px;
73 }
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

```

```
109 [ ]
110
111 .navbar-light .navbar-brand,
112 .navbar-light .btn {
113   height: 75px;
114 }
115
116 .navbar-light .navbar-nav .nav-link {
117   color: var(--dark);
118   font-weight: 500;
119 }
120
121 .El.navbar-light.sticky-top {
122   top: -100px;
123   transition: .5s;
124 }
125
126 @media (min-width: 992px) {
127   .El.navbar .navbar-item .dropdown-menu {
128     display: block;
129     border: none;
130     margin-top: 0;
131     top: 0;
132     opacity: 0;
133     visibility: hidden;
134     transition: .5s;
135   }
136
137   .El.navbar .nav-item:hover .dropdown-menu {
138     top: 100px;
139     visibility: visible;
140     transition: .5s;
141     opacity: 1;
142   }
143 }
144
145 /*** Header ***/
146 El.carousel-caption {
147   visibility: visible;
148   transition: .5s;
149   opacity: 1;
150 }
151
152 /*** Header ***/
153 El.carousel-caption {
154   top: 0;
155   left: 0;
156   right: 0;
157   bottom: 0;
158   background: rgba(0, 0, 0, .7);
159   z-index: 1;
160 }
161
162 .carousel-control-prev,
163 .carousel-control-next {
164   width: 10px;
165 }
166
167 .carousel-control-prev-icon,
168 .El.carousel-control-next-icon {
169   width: 3rem;
170   height: 3rem;
171 }
172
173 El.carousel-item img {
174   position: absolute;
175   width: 100%;
176   height: 100%;
177   object-fit: cover;
178 }
```

```
139 [ ]
140
141   }
142 }
143
144 /*** Header ***/
145 El.carousel-caption {
146   visibility: visible;
147   transition: .5s;
148   opacity: 1;
149 }
150
151 /*** Header ***/
152 El.carousel-caption {
153   top: 0;
154   left: 0;
155   right: 0;
156   bottom: 0;
157   background: rgba(0, 0, 0, .7);
158   z-index: 1;
159 }
160
161 .carousel-control-prev,
162 .El.carousel-control-next {
163   width: 10px;
164 }
165
166 .carousel-control-prev-icon,
167 .El.carousel-control-next-icon {
168   width: 3rem;
169   height: 3rem;
170 }
171
172 @media (max-width: 768px) {
173   .header-carousel .carousel-item {
174     position: relative;
175     min-height: 450px;
176   }
177
178   El.carousel-item img {
179     position: absolute;
180     width: 100%;
181     height: 100%;
182     object-fit: cover;
183   }
184 }
```

```
180 [ ]
181
182   background-size: cover;
183 }
184
185 El.page-header-inner {
186   background: rgba(0, 0, 0, .7);
187 }
188
189 El.breadcrumb-item + .breadcrumb-item::before {
190   color: var(--light);
191 }
192
193
194 /*** Facts ***/
195 El.fact {
196   background: linear-gradient(rgba(0, 0, 0, .7), rgba(0, 0, 0, .7)), url(..../img/carousel-bg-1.jpg);
197   background-position: center center;
198   background-repeat: no-repeat;
199   background-size: cover;
200 }
201
202 /*** Service **/
203 El.service.nav .nav-link {
204   background: var(--light);
205   background-color: var(--primary);
206   border-radius: 50px;
207   border: 2px solid var(--primary);
208   border: 2px solid var(--primary);
209   color: var(--dark);
210   font-weight: 500;
211   padding: 10px;
212   transition: .5s;
213 }
214
215 El.service.nav .nav-link.active {
216   background: var(--primary);
217   color: #FFFFFF !important;
218 }
219
220 /*** Booking ***/
221 El.booking {
222   background: linear-gradient(rgba(0, 0, 0, .7), rgba(0, 0, 0, .7)), url(..../img/carousel-bg-2.jpg) center center no-repeat;
223   background-size: cover;
224 }
```

```

220  /** Booking */
221  .booking {
222     background: linear-gradient(rgba(0, 0, 0, .7), rgba(0, 0, 0, .7)), url(..../img/carousel-bg-2.jpg) center center no-repeat;
223     background-size: cover;
224 }
225
226 .bootstrap-datetimepicker-widget .bottom {
227     top: auto !important;
228 }
229
230 .bootstrap-datetimepicker-widget .table {
231     border-bottom-width: 0px;
232 }
233
234 .bootstrap-datetimepicker-widget .table th {
235     font-weight: 500;
236 }
237
238 .bootstrap-datetimepicker-widget .dropdown-menu {
239     padding: 10px;
240     border-radius: 2px;
241 }
242
243 .bootstrap-datetimepicker-widget table td.active,
244 .bootstrap-datetimepicker-widget table td.active:hover {
245     background: var(--primary);
246 }
247
248 .bootstrap-datetimepicker-widget table td.today::before {
249     border-bottom-color: var(--primary);
250 }
251
252
253 /** Team */
254 .team-item .team-overlay {
255     display: flex;
256     align-items: center;
257     justify-content: center;
258     background: var(--primary);
259     transform: scale(0);
260     transition: .5s;
261 }
262
263 .team-item:hover .team-overlay {
264     transform: scale(1);
265 }
266
267 .team-item .team-overlay .btn {
268     color: var(--primary);
269     background: #FFFFFF;
270 }
271
272 .team-item .team-overlay .btn:hover {
273     color: #FFFFFF;
274     background: var(--secondary);
275 }
276
277
278 /** Testimonial */
279 .testimonial-carousel .owl-item testimonial-text,
280 .testimonial-carousel .owl-item.center .testimonial-text * {
281     transition: .5s;
282 }
283
284 .testimonial-carousel .owl-item.center .testimonial-text {
285     background: var(--primary) !important;
286 }
287
288 .testimonial-carousel .owl-item.center .testimonial-text * {
289     color: #FFFFFF !important;
290 }
291
292
293 .testimonial-carousel .owl-dots {
294     margin-top: 24px;
295     display: flex;
296     width: 100% !important;
297     justify-content: center;
298 }
299
300 .testimonial-carousel .owl-dot {
301     position: relative;
302     display: inline-block;
303     margin: 0 5px;
304     width: 15px;
305     height: 15px;
306     border: 1px solid #CCCCCC;
307     transition: .5s;
308 }
309
310 .testimonial-carousel .owl-dot.active {
311     background: var(--primary);
312     border-color: var(--primary);
313 }
314
315
316 .footer {
317     background: linear-gradient(rgba(0, 0, 0, .9), rgba(0, 0, 0, .9)), url(..../img/carousel-bg-1.jpg) center center no-repeat;
318     background-size: cover;
319 }
320
321 .footer .btn.btn-social {
322     margin-right: 5px;
323     width: 35px;
324     height: 35px;

```

```
    .footer .btn.btn-link {
        display: block;
        margin-bottom: 0px;
        padding: 0px;
        text-align: left;
        color: #FFFFFF;
        font-size: 15px;
        font-weight: normal;
        font-style: normal;
        text-transform: capitalize;
        transition: .3s;
    }

    .footer .btn.btn-link::before {
        position: relative;
        content: "\f165";
        font-family: "Font Awesome 5 Free";
        font-weight: 900;
        margin-right: 10px;
    }

    .footer .btn.btn-link:hover {
        letter-spacing: 1px;
        box-shadow: none;
    }

    .footer .copyright {
        padding: 25px 0;
        font-size: 15px;
        border-top: 1px solid rgba(256, 256, 256, .1);
    }

    .footer .copyright a {
        color: var(--light);
    }

    .footer .footer-menu a {
        margin-right: 15px;
        border-right: 1px solid rgba(255, 255, 255, .3);
    }
```

This CSS code includes a set of style rules for HTML content. Here's a rundown of the important points:

Make a font available on the page by importing it from the Google Fonts collection. Set font-family, remove margins and padding, use box-sizing border-box, remove text decorations, outlines, and borders, capitalize text, and provide smooth transitions to all attributes to all components on the page. The font size is set to 62.5%, rem units are enabled, and smooth scrolling, scroll jump padding, and horizontal overflow concealing are all enabled. webkit-scrollbar-stylish scrollbar look, width is 1rem, track background is WHITE, thumb background is blue. The backdrop colour is changed to blue by body. A button element in the btn style with a gradient backdrop and white text, as well as a hover effect that scales the button up. The header is designed in the same manner as the top navigation bar, with a fixed position, a white backdrop, a logo on the left, and a link on the right. A learning style page's main content section, with a width of 60rem and a top margin of 6.5rem. Every Style A two-column section with headers, red spans, and white paragraphs on the left and text on the right. The Container and h1 elements create a maximum-width feedback form that is centered on the page and has a white background and header.

4.3 Update

The screenshot shows the 'Register' page of the AutoSpectacle website. At the top, there is a navigation bar with links for HOME, SEARCH CAR, LAST NEWS, and LOGIN. Below the navigation bar, the page title 'Register' is displayed in bold. The registration form consists of three input fields: 'Full Name' and 'Your Email' in the first row, 'Phone' and 'address' in the second row, and 'Your Password' in the third row. A large red 'REGISTER' button is located at the bottom of the form.

First, the user must register as a member.

The screenshot shows the 'Modify Users Details' page of the AutoSpectacle website. On the left, a sidebar menu includes 'Dashboard', 'Modify Users' (which is currently selected), 'Manage Cars', 'Manage News', and 'Settings'. The main content area displays a table with columns: ID, Name, Email, Phone, Address, Password, and Registered Date. The table contains three rows of data:

	ID	Name	Email	Phone	Address	Password	Registered Date
Edit Delete	1	Yan	yan@mail.com	1234567890	KL	123	6/6/2023 6:39:44 PM
Edit Delete	2	Feruz	feruz@mail.com	2345678901	KL	123	6/6/2023 6:39:44 PM
Edit Delete	3	Kugen Singam	bossku@gmail.com	999	No 6, Lorong 5/6B, Jalan Gasing, Seksyen 5	1234567890	6/6/2023 6:46:53 PM

[Go Back](#)

After the user has registered successfully then it will pop up in the database.

The screenshot shows the 'Login' page of the AutoSpectacle website. At the top, there is a navigation bar with links for HOME, SEARCH CAR, LAST NEWS, and LOGIN. Below the navigation bar, the page title 'Login' is displayed in bold. The login form consists of two input fields: 'Email' and 'Password'. Below the password field is a 'Register' link, and below the entire form is a large red 'LOGIN' button. At the bottom of the page, there is a footer with links for Home and Login, and a copyright notice: '© 2023 AutoSpectacle. All Rights Reserved.'

Finally, the user will be able to login to the account

4.4 Delete

The admin will delete the user details in the database so that the user will not be able to login.

The screenshot shows a sidebar with 'Dashboard', 'Modify Users' (selected), 'Manage Cars', 'Manage News', and 'Settings'. The main area is titled 'Modify Users Details' and contains a table with columns: ID, Name, Email, Phone, Address, Password, and Registered Date. Three rows of data are listed, each with 'Edit' and 'Delete' links. Below the table is a 'Go Back' link.

	ID	Name	Email	Phone	Address	Password	Registered Date
Edit Delete	1	Yan	yan@mail.com	1234567890	KL	123	6/6/2023 6:39:44 PM
Edit Delete	2	Feruz	feruz@mail.com	2345678901	KL	123	6/6/2023 6:39:44 PM
Edit Delete	3	Kugen Singam	bosku@gmail.com	999	No 6, Lorong 5/6B, Jalan Gasing, Seksyen 5	1234567890	6/6/2023 6:46:53 PM

[Go Back](#)

The screenshot shows the 'AutoSpectacle' logo at the top. Below it is a 'Login' form with fields for 'Email' (filled with 'bosku@gmail.com') and 'Password'. There are 'Register' and 'LOGIN' buttons. A message 'Invalid login attempt' is displayed below the form.

[// LOGIN //](#)

Login

Email
bosku@gmail.com

Password

Register

LOGIN

Invalid login attempt

[AutoSpectacle](#)

After the data has been deleted, then the user will not be able to login to the account using their credentials.

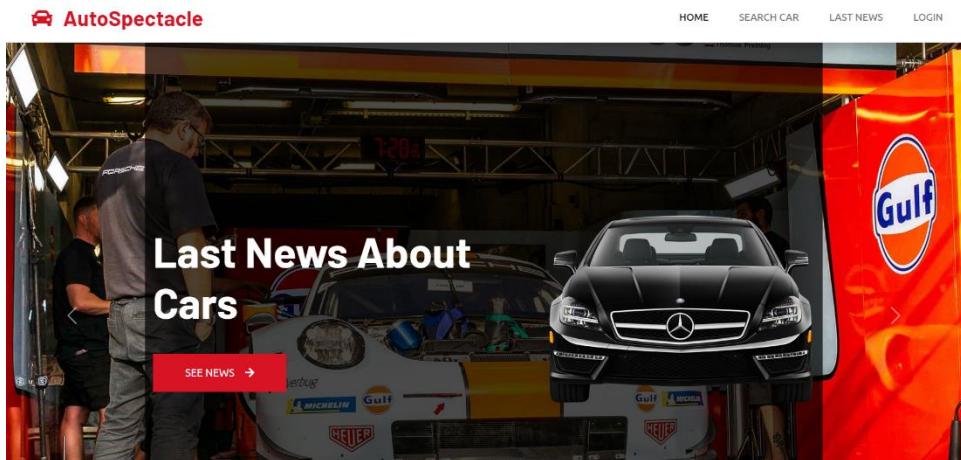
The screenshot shows the same 'Modify Users Details' page as before, but now only two rows of data are visible in the table, indicating that one row has been deleted.

	ID	Name	Email	Phone	Address	Password	Registered Date
Edit Delete	1	Yan	yan@mail.com	1234567890	KL	123	6/6/2023 6:39:44 PM
Edit Delete	2	Feruz	feruz@mail.com	2345678901	KL	123	6/6/2023 6:39:44 PM

[Go Back](#)

4.5 Login

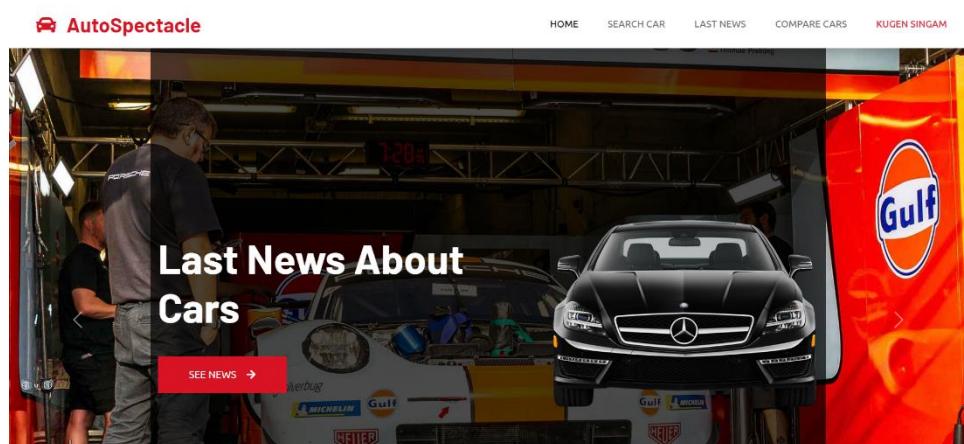
Before the members login to their page this will be the homepage



This is the login page for the member

The login page features a header with the AutoSpectacle logo and navigation links. Below is a form with fields for "Email" and "Password", a "Register" link, and a red "LOGIN" button. At the bottom, there's a footer with links for Home and Login, and a copyright notice: "© 2023 AutoSpectacle. All Rights Reserved."

After the members login with their credentials then they will be able to move to the homepage



This is the homepage that the user will get into

// LOGIN //

Login

Email
bossku@gmail.com

Password

[Register](#)

LOGIN

Invalid login attempt

Error username and password

// LOGIN //

Login

Email
bossku125@gmail.com

Password

[Register](#)

LOGIN

Invalid login attempt

Invalid username and password

[HOME](#)

[SEARCH CAR](#)

[LAST NEWS](#)

[COMPARE CARS](#)

KUGEN SINGAM

Once everything is successful then the user will be able to use the account

4.6 Log out

The screenshot shows the AutoSpectacle login page. At the top, there is a navigation bar with links for HOME, SEARCH CAR, LAST NEWS, and LOGIN. Below the navigation bar is a header with the text '//LOGIN//' and 'Login'. There are two input fields: 'Email' and 'Password'. Below the password field is a 'Register' link. A red 'LOGIN' button is positioned below the password field. At the bottom of the page, there is a footer with the AutoSpectacle logo, a copyright notice (© 2023 AutoSpectacle. All Rights Reserved.), and links for Home and Login.

Once the user signs in to their account, they will be able to log out also

4.7 Form Validation

Sign In

Email:

Passw ! Please fill out this field. Sign In

Don't have an account? [Register](#)

Sign In

Email:

! Please include an '@' in the email address. 'eee' is missing an '@'.

Don't have an account? [Register](#)

Sign In

Email: kugenath007@gmail.com

Password:

Sign In

Don't have  Please fill out this field.

Register

Name

Email  Please fill out this field.

Password

Already have an account? [Sign in](#)

Register

Name Kugenath

Email

Password ! Please fill out this field.

Register

Already have an account? [Sign in](#)

Register

Name Kugenath

Email tp068005@mail.apu.edu.m!

Password

Register

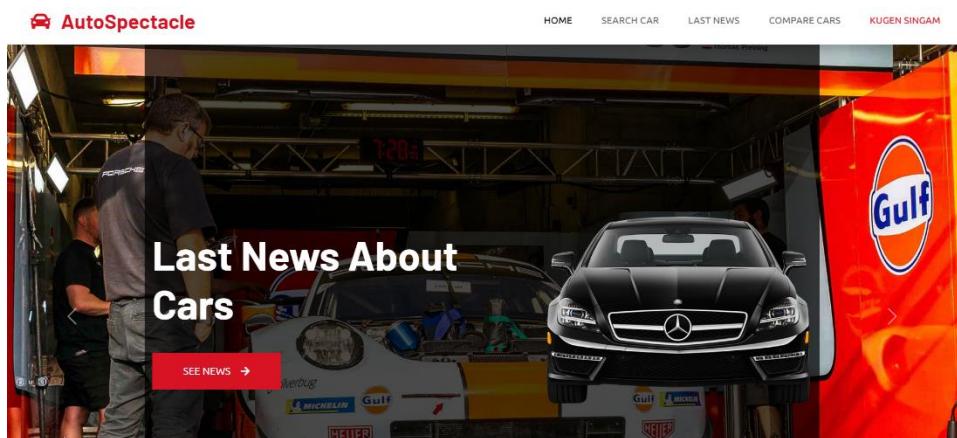
Already have an account? ! Please fill out this field.

5.0 User Guidance

The screenshot displays the homepage of the AutoSpectacle website. At the top left is the logo "AutoSpectacle" with a car icon. To the right are navigation links: HOME, SEARCH CAR, LAST NEWS, and LOGIN. Below the header is a large banner featuring a black Mercedes-Benz and two men working on a white racing car. The banner text reads "Last News About Cars" and includes a "SEE NEWS" button. The main content area starts with a section titled "Revolutionizing Your Automotive Experience Is The Best Place For Your Auto Care" featuring a red Ferrari and a silhouette of a person. It includes a paragraph about the platform's mission and three numbered points: 1. Authenticity (Genuine offerings for trustworthy transactions), 2. Customer Satisfaction (Unrivaled support for your complete satisfaction), and 3. Innovation (Harnessing technology for a seamless user experience). Below this is a section titled "SEE THE CAR TYPES" with categories: Sedan (selected), SUV, Coupe, and Sport Car. To the right of the car type categories is a image of a silver Kia Stinger and a "Comfort" section describing sedans. A "SEE MORE SEDANS" button is at the bottom. The footer contains the "AutoSpectacle" logo, navigation links (Home, Search car, Last News, Login), and a copyright notice: "© 2023 AutoSpectacle. All Rights Reserved."

This is the homepage of our car website. First of all, at the beginning of the page is the AutoSpectacle which is the name of the website, and at the top right-hand side is the navigation bar for the user to move to the next page. Below that, the user will be able to search for the respective car that they would like to choose. The user will also be able to see the news also. As the user scrolls down there is a brief introduction to the company. As the user scrolls down

even more then they will be able to see car type that the user will be able to select the car type as there is a brief introduction for it. This is the page shown when the user has not logged in to the website.



This is the homepage shown after the user have login to the website. As you can see from the top right-hand side of the page, there is the name of the user who has already logged on into the website. Once the user has logged in to the website, then they will be able to see more details about the website where it allows them to browse through the page and all.

Search Car:



Mercedes-Benz GLC SUV

The Mercedes-Benz GLC is a compact luxury crossover SUV introduced in 2015 for the 2016 model year that replaces the GLK-Class. According to Mercedes-Benz, it is the SUV equivalent to the C-Class. Although officially considered compact, it is considered mid-size in the US market.

Price: RM 429,888.00

Trims: GLC 300, GLC 300 4MATIC® and AMG® GLC 43.

On the next page of our website is the Search Car website where the user will be able to search for the car that they would like to use. Also, on this website the user will be able to choose the car that they want to such as the SUV, Sedan, Coupe or Sport Car which also depends on the user's comfort level. At the bottom of the page, there is the name of the company and also the home and also the login button for the user to click to enter the login or register page.

The screenshot shows the AutoSpectacle website's login interface. At the top, there is a navigation bar with links for HOME, SEARCH CAR, LAST NEWS, and LOGIN. Below the navigation bar, the title "AutoSpectacle" is displayed next to a car icon. The main content area has a header "// LOGIN //". Below the header, the word "Login" is centered. There are two input fields: one for "Email" and one for "Password". Underneath the password field is a link "Register". A red "LOGIN" button is located at the bottom of the form. At the very bottom of the page, there is a footer with the "AutoSpectacle" logo and navigation links for Home and Login.

For this part of the page, the customer will be able to sign in their credentials once they have registered an account. All the user needs to do is to put in their email and password. Once they are done with that, then they will be able to sign in. Let's say if the user doesn't have an account yet, then they will be able to register by just clicking on the link below.

The screenshot shows the AutoSpectacle website's registration interface. At the top, there is a navigation bar with links for HOME, SEARCH CAR, LAST NEWS, and LOGIN. Below the navigation bar, the title "AutoSpectacle" is displayed next to a car icon. The main content area has a header "// JOIN US //". Below the header, the word "Register" is centered. There are three input fields arranged in a grid: "Full Name" and "Your Email" in the top row, "Phone" and "address" in the middle row, and "Your Password" in the bottom row. Below these fields is a large red "REGISTER" button. At the very bottom of the page, there is a footer with the "AutoSpectacle" logo and navigation links for Home and Login.

On this part of the page, the user will be able to register their details here. The user will need to key in their details such as their Full Name, Email, Phone, Address and also their password. Once the user has already keyed in their details then they will need to click on the register button. Once they have clicked on the register button, then they will be able to move into the login page for them to login their details.

User Information

Name: Kugen Singam
Email: bossku@gmail.com
Phone: 999
Address: No 6, Lorong 5/6B, Jalan Gasing, Seksyen 5

On this part of the page, the user will be able to view their personal details that they have already signed up for. For example, the user information that they will be able to view is their Name, Email, Phone and their address where they have keyed in during their registration time. Furthermore, at the bottom of the page they will be able to go back to the homepage.

News Image
Mercedes-Benz GLC SUV
Clear lines and dynamic proportions characterise the design of the new GLC. The sporty presence of the SUV is just as impressive in the city as it is off the road.

News Image
New BMW M5
The new BMW M5 offers enhanced performance and driving dynamics.

News Image
Audi Q8 Unveiled
The new Audi Q8 combines elegance with versatility.

News Image
Cadillac CT5: Luxury and Performance
The Cadillac CT5 brings together luxury and performance in a stylish package.

News Image
Dodge Challenger: Power and Style
The Dodge Challenger continues to impress with its power and style.

News Image
New Toyota Camry
The Toyota Camry offers a new level of style and elegance.

News Image
Honda CR-V Unveiled
The new Honda CR-V offers improved performance and comfort.

News Image
Ford Mustang: Power and Style
The Ford Mustang continues to impress with its power and style.

News Image
New Porsche 911 Unveiled
The new Porsche 911 offers improved performance and features.

News Image
Chevrolet Corvette: American Icon
The Chevrolet Corvette continues to impress with its power and style.



© 2023 AutoSpectacle. All Rights Reserved.

On this part of the website, the user will be able to see the last news which has been provided by the company. For example, Mercedes-Benz GLC SUV. Clear lines and dynamic proportions characterize the design of the new GLC. The sporty presence of the SUV is just as impressive in the city as it is off the road. As the user clicks on the link in any of the cars, they will be able to view more details on the car website as they have the description and information for it.

Compare Cars

Select Car 1:

BMW

Select Car 2:

Mercedes

Select Car Type 1:

Sedan

Select Car Type 2:

Coupe

COMPARE**Result:**

© 2023 AutoSpectacle. All Rights Reserved.

On this particular website, the user will be able to compare cars with the cars they love. For example, a BMW and a Mercedes can be compared. Not only that, but the user will be able to also select the car type that they would love to compare such as the Sedan type or the Coupe type of car. Once they have made their decision, then they will just need to click on the red button which says compare, then the result will make them compare the car.

5.1 Admin Guidance

Admin Login

Username:

Password:

[Login](#)

This is the admin page. For the admin to login, the username is ‘admin’ and the password is also ‘admin’.

The screenshot shows the Admin Dashboard interface. On the left, there is a sidebar with the title "Admin Dashboard" containing links for "Dashboard", "Modify Users", "Manage Cars", "Manage News", and "Settings". The main area has a header "Welcome Admin!" and a "Log out" button. It features four main sections: "Add News" (with a "Go to Users" button), "Add Car" (with a "Go to Cars" button), "Modify Users" (with a "Go to User Data" button), and "Manage News" (with a "Go to News Data" button). Below these is a "Manage Cars" section (with a "Go to Car Data" button).

This page shows the admin dashboard. In this admin dashboard, the admin will be able to modify users, manage cars, manage news and also the settings for it. On the top right of the page, is the logout button for the admin.

Modify Users Details

	ID	Name	Email	Phone	Address			Password	Registered Date
Edit Delete	1	Yan	yan@mail.com	1234567890	KL			123	6/6/2023 6:39:44 PM
Edit Delete	2	Feruz	feruz@mail.com	2345678901	KL			123	6/6/2023 6:39:44 PM
Edit Delete	5	Kugen Singam	bosku@gmail.com	999	No 6, Lorong 5/6B, Jalan Gasing, Seksyen 5			1234567890	6/6/2023 7:18:47 PM
Edit Delete	6								6/6/2023 7:24:34 PM
Edit Delete	7								6/6/2023 7:24:37 PM
Edit Delete	8	kugz							6/6/2023 7:24:45 PM

[Go Back](#)

On the modify user details, this shows that the admin will be able to update the details of the specific user. The admin will also be able to delete the user account. Furthermore, the admin will also be able to update the user details such as their Name, email, phone, address, password.

Manage Cars

	ID	Car Name	Car Description	Car Information	Performance Information	Car Type	Price	Trims	Engines	Horsepower
Edit Delete	1	Mercedes-Benz GLC SUV	The Mercedes-Benz GLC is a compact luxury crossover SUV introduced in 2015 for the 2016 model year that replaces the GLK-Class. According to Mercedes-Benz, it is the SUV equivalent to the C-Class. Although officially considered compact, it is considered	The "G" is for Geländewagen (German for off-road vehicle) and alludes to the long-running G-Class.	The 2021 Mercedes-Benz GLC 300 can go from 0-60 miles per hour in only 6.1 seconds.	SUV	\$73,400	GLC 300, GLC 300 4MATIC® and AMG® GLC 43.	2.0L 4-cylinder turbo and 2.2L 4-cylinder turbo diesel	190 / 258 kW/hp
Edit Delete	7	Honda CR-V	The Honda CR-V is a compact crossover SUV produced by Honda since 1995.	With its comfortable ride and spacious interior, the Honda CR-V has set the standard for compact SUVs.	0 to 60 mph in 7.7 seconds.	SUV	\$25,350	LX, EX, EX-L, Touring	1.5L Turbo I4	190 hp
Edit Delete	6	Toyota Camry	The Toyota Camry is a mid-size car produced by Toyota since 1982.	Known for its reliability and fuel efficiency, the Camry has become a standard in the mid-size car market.	0 to 60 mph in 7.5 seconds.	Sedan	\$24,970	LE, XLE, SE, XSE	2.5L I4	203 hp
Edit Delete	4	Cadillac CT5	The Cadillac CT5 is a mid-size luxury car manufactured and marketed by General Motors under	The CT5 appeals to buyers wanting luxury, performance, and technology.	0 to 60 mph in 6.6 seconds.	Coupe	\$36,995	Luxury, Premium Luxury, Sport	2.0L Turbo I4	237 hp

Edit Delete	5	Dodge Challenger	The Dodge Challenger is a series of American automobiles produced by Dodge in North America.	The Challenger is known for its powerful engine options and comfortable ride.	0 to 60 mph in 3.4 seconds.	Sport Car	\$28,295	SXT, GT, R/T	3.6L V6	303 hp
Edit Delete	3	Audi Q8	The Audi Q8 is a full-size luxury crossover SUV coupe made by Audi that was launched in 2018.	The Audi Q8 combines the elegance of a four-door luxury coupe and the practical versatility of a large SUV.	0 to 60 mph in 5.6 seconds.	SUV	\$68,200	Premium, Premium Plus, Prestige	3.0L V6	335 hp
Edit Delete	9	Porsche 911	The Porsche 911 is a high-performance rear-engined sports car made by Porsche AG	The Porsche 911 has been synonymous with high performance, luxury, and style for over	0 to 60 mph in 3.2 seconds.	Sport	\$99,200	Carrera, Carrera S, Carrera 4S	3.0L Flat-6 Twin-Turbocharged	379-502 h

On this part of the page, the admin will also be able to manage the cars for the user to see. There are a few examples pf car that have been stated in the admin page for the user to see on the website. The admin will also be able to edit and delete the managed cards. Not only that, if there are new arrivals of cars, then the admin will be able to add them to the database, and then it will automatically be viewed on the website.

Manage News

	ID	Caption	Description	Information	Published Date
Edit Delete	1	Mercedes-Benz GLC SUV	Clear lines and dynamic proportions characterise the design of the new GLC. The sporty presence of the SUV is just as impressive in the city as it is off the road.	The interior of the new GLC SUV sets standards. Be it the central display tilted towards the driver, the multifunction sports steering wheel or high-quality trim elements: high-quality materials ensure luxurious comfort that you can feel - on every journey.	6/6/2023 6:39:44 PM
Edit Delete	2	New BMW M5	The new BMW M5 offers enhanced performance and driving dynamics.	Experience the luxury and sportiness of the new BMW M5 with improved features and technology.	6/6/2023 6:39:44 PM
Edit Delete	3	Audi Q8 Unveiled	The new Audi Q8 combines elegance with versatility.	With improved technology and performance, the new Audi Q8 is set to revolutionize the luxury SUV market.	6/6/2023 6:39:44 PM
Edit Delete	4	Cadillac CT5: Luxury and Performance	The Cadillac CT5 brings together luxury and performance in a stylish package.	With its powerful engine and comfortable ride, the Cadillac CT5 offers an unparalleled driving experience.	6/6/2023 6:39:44 PM
Edit Delete	5	Dodge Challenger: Power and Style	The Dodge Challenger continues to impress with its power and style.	Known for its powerful engine and comfortable ride, the Dodge Challenger is the perfect blend of performance and luxury.	6/6/2023 6:39:44 PM
Edit Delete	6	New Toyota Camry	The Toyota Camry offers a new level of style and elegance.	The new Camry is equipped with improved technology and offers a comfortable ride.	6/6/2023 6:39:44 PM

On this part of the page, the admin will be able to manage the news for the user to see the news. For example, if the admin deletes the news here, then the user will not be able to view the news on the website. The admin is also able to edit the news, so when it is edited here and then it will also be shown on the website. The admin will also be able to create new news, so as time goes and when there is new news then the admin will be able to update it in the admin page which will automatically be saved on the website.

5.2 Extra Features

HOME SEARCH CAR LAST NEWS LOGIN

HOME SEARCH CAR LAST NEWS COMPARE CARS KUGEN SINGAM

There is a navigation bar for the user to easily use the website without any issue. On the second navigational bar is the bar where after the user has already logged in.



On the homepage, there is a slideshow where it will change the page of the website.

Compare Cars

Select Car 1:	Select Car 2:
<input type="text" value="BMW"/>	<input type="text" value="Mercedes"/>
Select Car Type 1:	Select Car Type 2:
<input type="text" value="Sedan"/>	<input type="text" value="Sedan"/>

What is special about this is that we have the dropdown inbox for the user to choose the car that they desire and also to select the car type.

6.0 Conclusion

In light of the completion of our project and user feedback, we have identified a number of prospective areas for enhancements and advancements to the AutoSpectacle platform:

6.1 Advanced Search and Comparison Features: In response to user feedback, we intend to add more advanced search parameters and robust comparison features. By comparing a greater variety of vehicle specifications, this will enable users to make more informed decisions.

6.2 Integration with Dealerships: Direct integration of our platform with auto dealerships is a future objective. This will provide real-time information on vehicle availability and pricing, and enable users to schedule test drives or make reservations directly through our platform.

6.3 Personalized User Experiences: We intend to implement machine learning algorithms in order to create personalized user experiences. This will entail curating automobile suggestions based on user preferences, search history, and user behavior on the site.

6.4 Mobile Application Development: We intend to create a mobile application for AutoSpectacle in light of the increase in mobile users. This will enable users to access our services whenever and wherever they desire, thereby enhancing the overall user experience.

6.5 Community Features: We are contemplating the addition of social features such as user forums, car meet-up events, and user-generated reviews and evaluations for various car models in order to cultivate a sense of community among car enthusiasts.

These modifications intend to transform AutoSpectacle from a simple website into a one-stop shop for car enthusiasts and prospective car purchasers, thereby increasing user engagement and satisfaction.

7.0 References

1. *PHP MySQL Insert Data.* (n.d.). PHP MySQL Insert Data.
https://www.w3schools.com/php/php_mysql_insert.asp
2. *PHP MySQL Create Database.* (n.d.). PHP MySQL Create Database.
https://www.w3schools.com/php/php_mysql_create.asp
3. *PHP: MySQL Database.* (n.d.). PHP: MySQL Database.
https://www.w3schools.com/php/php_mysql_intro.asp
4. *PHP Date and Time.* (n.d.). PHP Date and Time.
https://www.w3schools.com/php/php_date.asp
5. *PHP Form Handling.* (n.d.). PHP Form Handling.
https://www.w3schools.com/php/php_forms.asp
6. *CSS Text.* (n.d.). CSS Text. https://www.w3schools.com/css/css_text.asp
7. *CSS Backgrounds.* (n.d.). CSS Backgrounds.
https://www.w3schools.com/css/css_background.asp

8. *CSS Colors*. (n.d.). CSS Colors. https://www.w3schools.com/css/css_colors.asp

8.0 Appendix

Group Proposal

Introduction

Website Title

AutoSpectacle- Your best choice for car dealership

Website Logo



Figure 1: AutoSpectacle Logo

AutoSpectacle is one of the best online choose for users from the whole world of Malaysia where they can check out about the car dealership which focuses on cars. We appreciate the chance to help you in locating your ideal car. Our store has a large range of new and used cars, trucks, SUVs, and vans from a few well-known manufacturers.

Furthermore, the customer will be able to buy the car at an affordable price. Once the customer has already registered themselves to our website, they will be able to browse through any of their interested car and, they will be able to make an appointment with us on the selected day and time so that it will all be as smooth as possible. Customers will also be able to see if there are any promotions or discounts on the selected car that they would be interested in.

Finally, on the website, there is information provided that answers the inquiries of people who enter the page, such as Visitors. Answering these questions will help them and prevent them from making an unforced mistake.

Mission

AutoSpectacle objective is to bring Malaysian vehicle aficionados the most recent news, reviews, and insights into the automotive sector. We try to provide interesting material that informs, entertains, and inspires our audience, all while cultivating a community of dedicated Malaysian automobile lovers. AutoSpectacle mission is to become Malaysia's go-to source for automobile enthusiasts, providing them with the tools and information they need to stay informed and engaged with the local automotive sector. We also hope to help and promote the expansion of Malaysia's automotive sector by highlighting local talent and industry breakthroughs on our platform.

Objective

- To provide comprehensive information and educational content about the car model such as technical specifications, performance, images, pricing details etc.
- To provide potential buyers with detailed information about the car to help generate interest and attract potential customers.

Scope

This platform was created and designed to assist user so that they can save their favorite car listings, compare different cars and receive notifications about new listing or price drop. Other than that, each car listing can have a dedicated page with detailed information about the car including specifications, features, and seller contact information. This car webpage is easy to navigate and user-friendly.

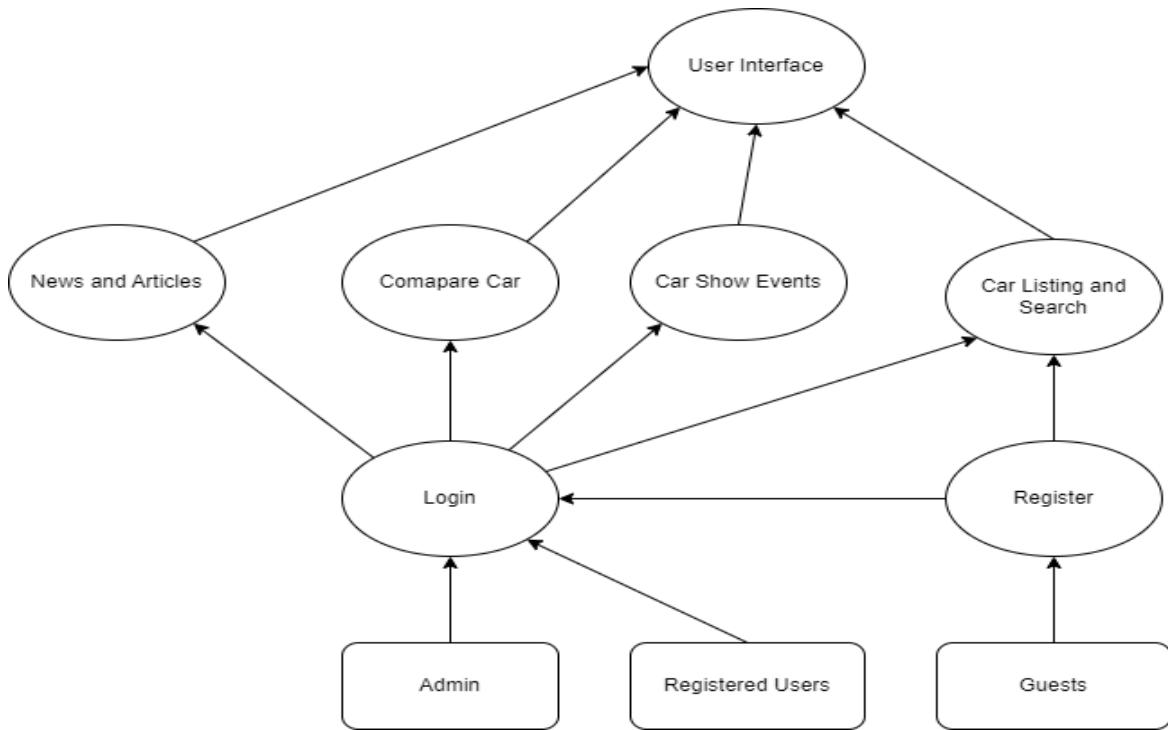


Figure 2: Shows the Diagram of 'AutoSpectacle.com'

The basic diagram shows the website outlines three user roles: Guests, Registered Users, and Admins. Each role has specific features and access levels, which are described below.

4. Guests: Guests are unregistered users who visit your website. They have limited access to the site's features, mainly focused on exploring the car listings and the opportunity to register for an account. The User Interface for guests includes:

- Registration: Guests can create an account to become Registered Users and gain access to additional features on the website.
- Car Listing and Search: Guests can view and search through the available car listings to learn more about specific makes and models.

5. Registered Users: Registered Users have more extensive access to the website after successfully logging in. They can access various panels in addition to the basic User Interface shared with Guests. The features available to Registered Users include:

- News and Articles: Users can stay informed about the latest automotive news, trends, and articles related to cars and car shows.
- Compare Car: Users can compare different car models side-by-side, analyzing their specifications, features, and ratings.

- Car Show Events: Users can browse through upcoming car show events, find details, and register to attend or participate.
6. Admins: Admins are responsible for managing the website's content and users. They have the same access as Registered Users, but they also have access to an Admin Panel with additional features for managing the website. The Admin Panel includes:
- Manage Users: Admins can view, add, edit, or delete user accounts, as well as manage user roles and permissions.
 - Manage Cars: Admins can manage car listings by adding, editing, or deleting information about specific makes and models.
 - Manage Events: Admins can create, edit, or delete car show events and manage event details, such as dates, locations, and descriptions.
 - Manage Reviews: Admins can oversee user reviews and ratings, as well as edit or remove inappropriate content.
 - Manage Images: Admins can upload, edit, or delete images related to cars, events, or other website content.
 - Manage News and Articles: Admins can create, edit, or delete news articles and other informational content published on the website.

The diagram illustrates the hierarchical structure of user roles and their corresponding access levels. This organization helps maintain a secure and efficient website, ensuring that each user has access to the appropriate features and content based on their role.