WAPP Group Assignment

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Title:	**AutoSpectacle**
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Lecturer:	Dr. Lai Ngan Kuen
Hand Out Date:	23/02/2023
Hand in Date:	04/06/2023
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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

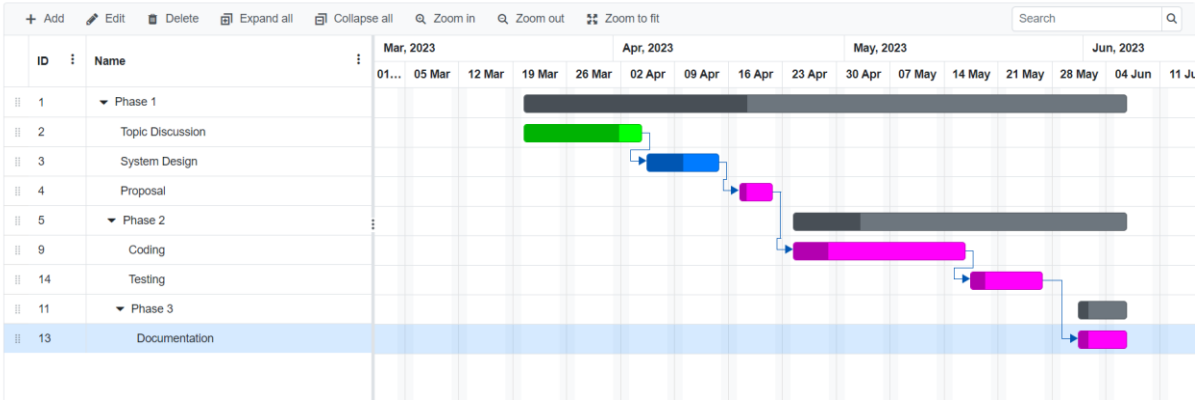
AutoSpectacle objective is to bring Malaysian vehicle aficionados the most recent news, reviews, and insights into the automotive sector. We try to provide interesting material that informs, entertains, and inspires our audience, all while cultivating a community of dedicated Malaysian automobile lovers. 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



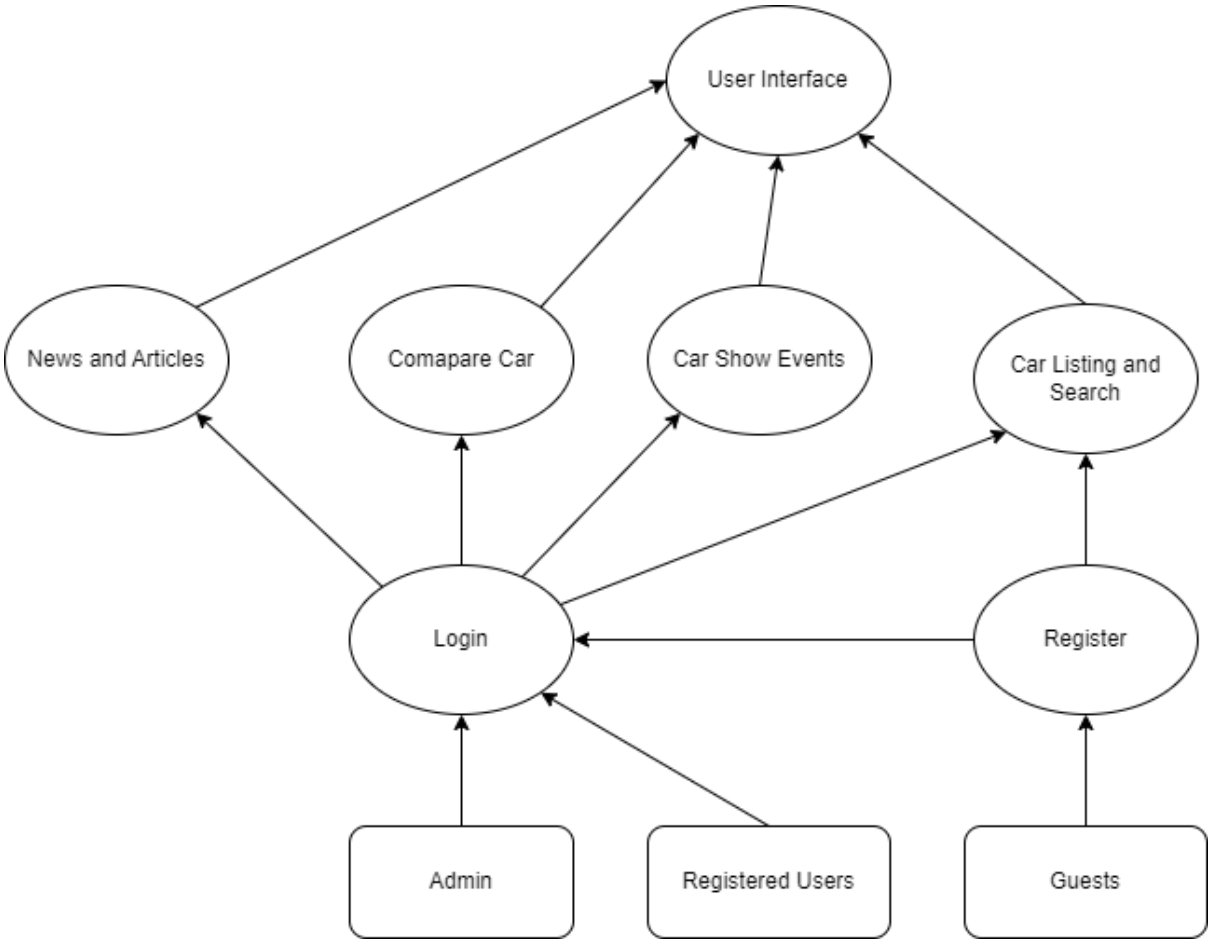
Work Breakdown Structure

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.

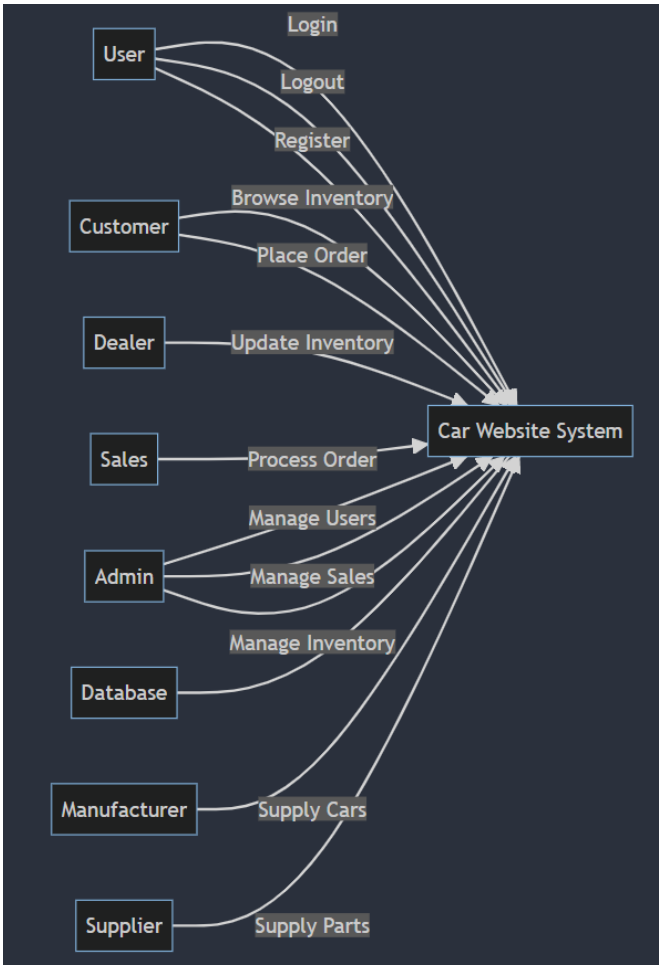
1. Guests: Guests are unregistered users who visit your website. They have limited access to the site's features, mainly focused on exploring the car listings and the opportunity to register for an account. The User Interface for guests includes:

    - 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.

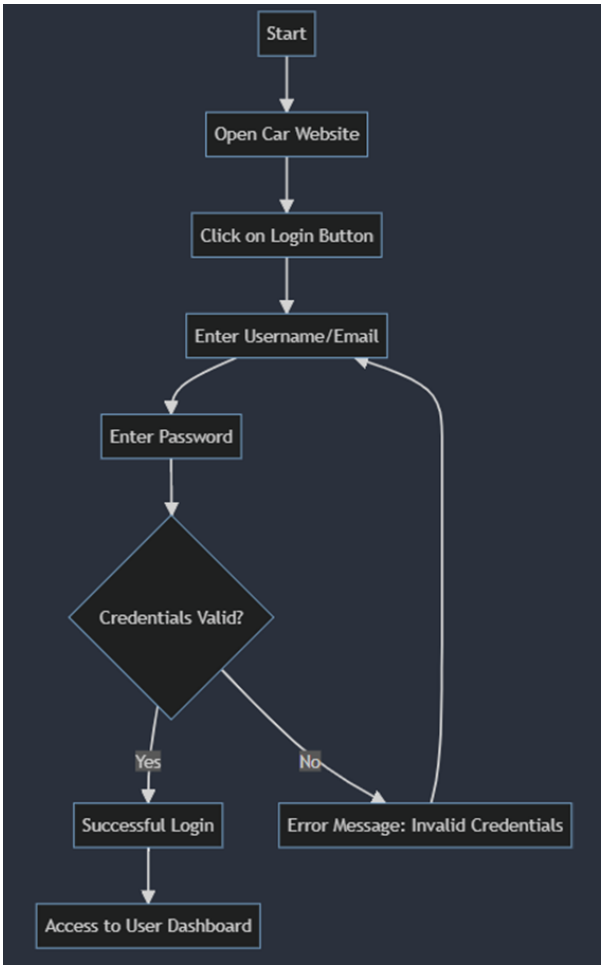
The diagram illustrates the hierarchical structure of user roles and their corresponding access levels. This organization helps maintain a secure and efficient website, ensuring that each user has access to the appropriate features and content based on their role.

2.2 Use Case(s)

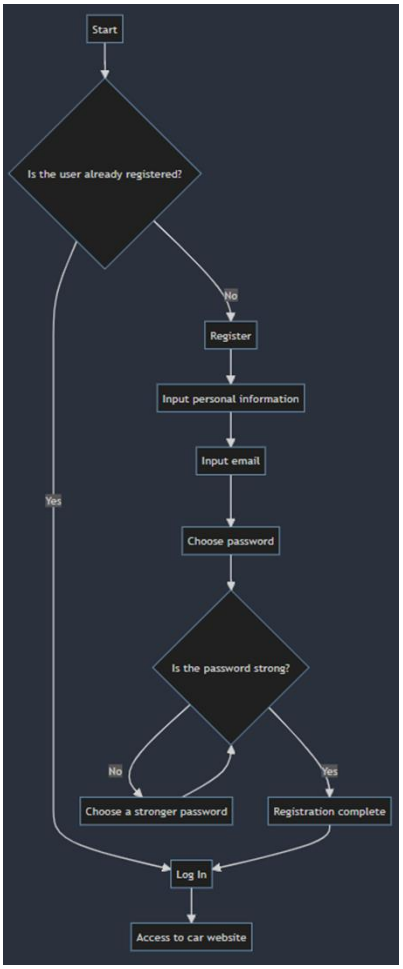


2.3 Flow Chart(s)

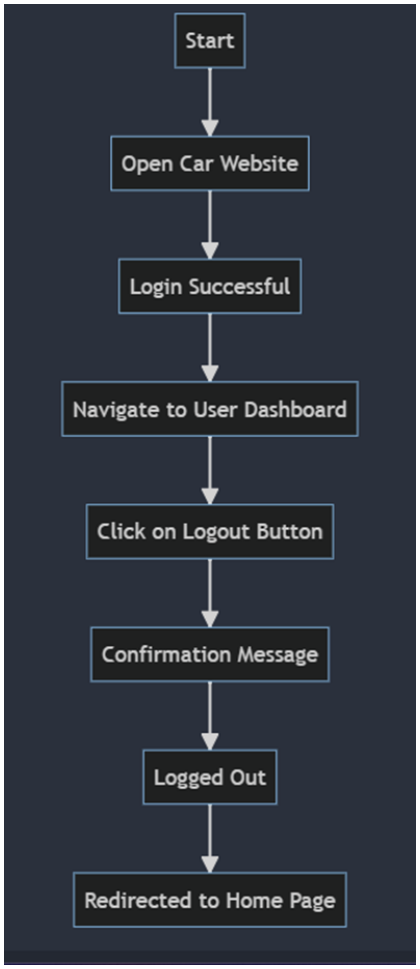
Login


Start
Open Car Website
Click on Login Button
Enter Username/Email
Enter Password
Credentials Valid?
Yes
No
Successful Login
Error Message: Invalid Credentials
Access to User Dashboard

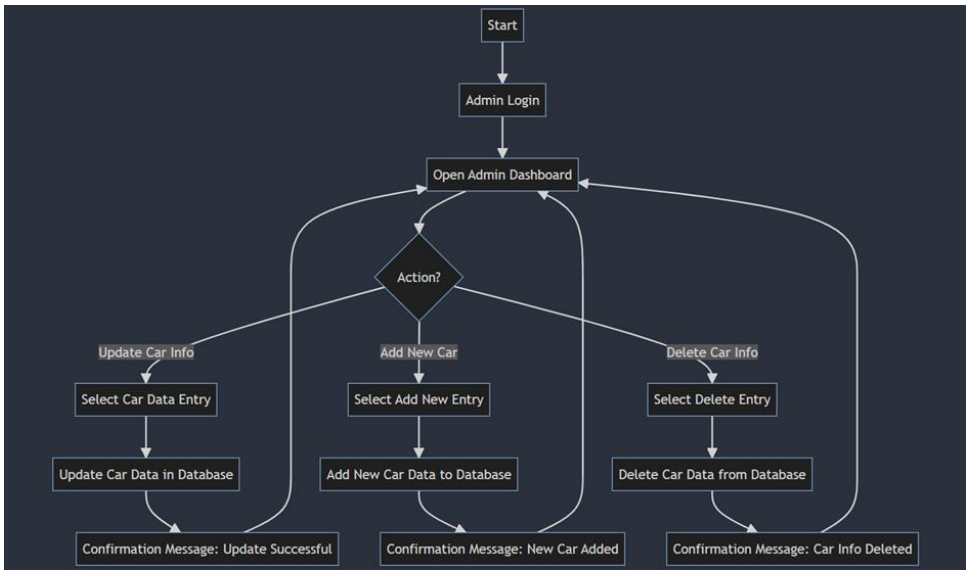
Register


Start
Is the user already registered?
No
Register
Input personal information
Input email
Yes
Choose password
Is the password strong?
No
Yes
Choose a stronger password
Registration complete
Log In
Access to car website

Logout



Admin and Database

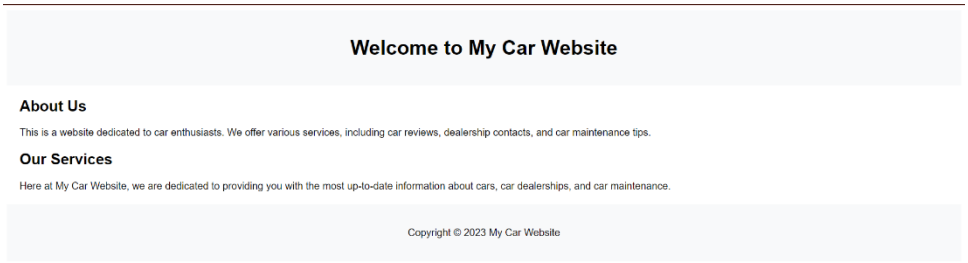


3.0 Design and Modeling

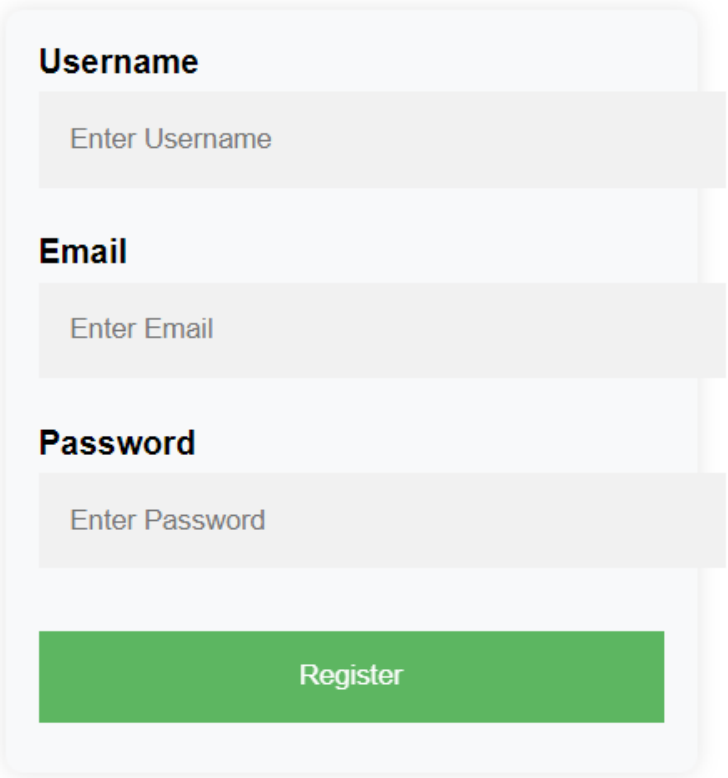
3.1 Entity Relationship Diagram (ERD)

3.2 Wireframes for major layouts of the web pages

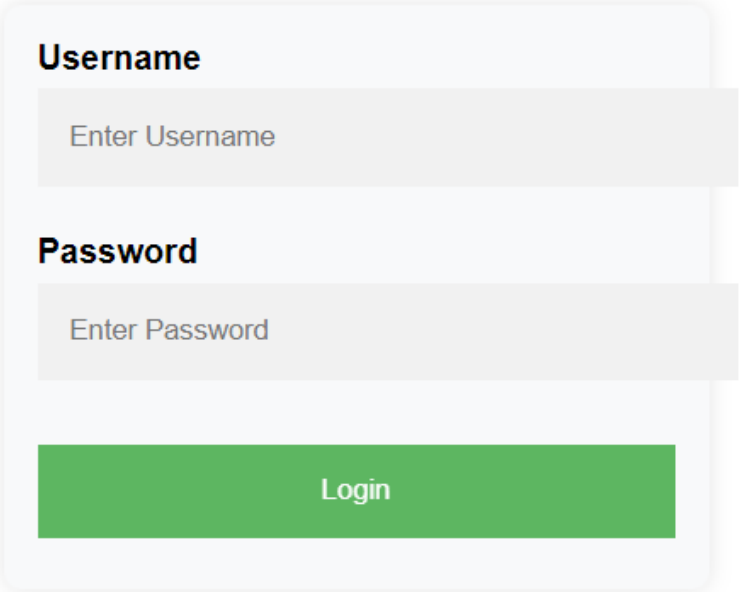
Welcome page



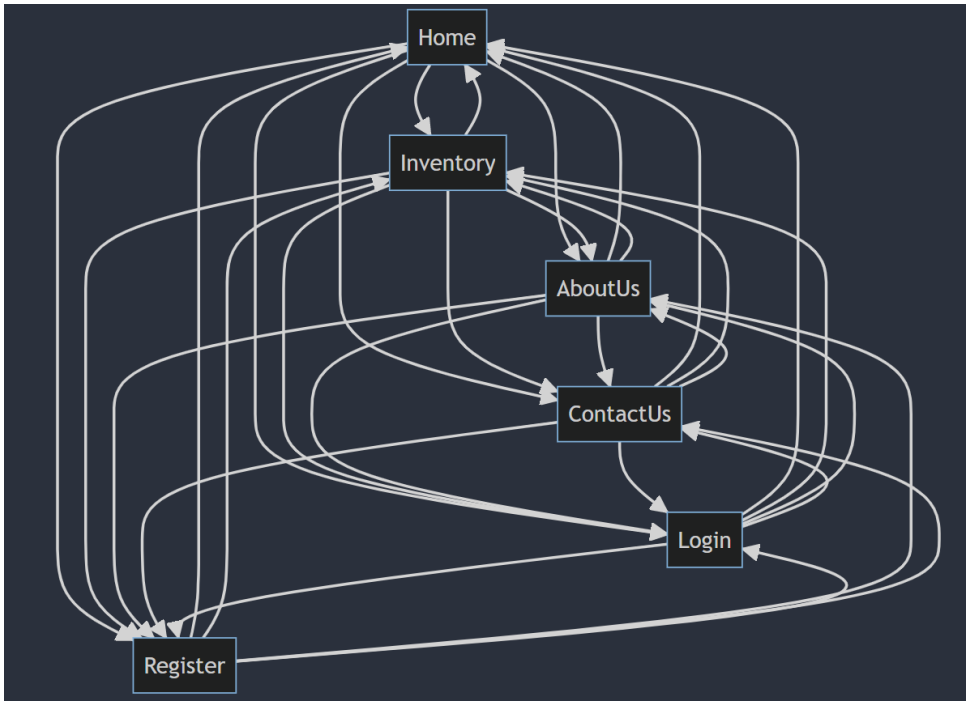
Sign up page


Username
Enter Username
Email
Enter Email
Password
Enter Password
Register

Login Page


Username
Enter Username
Password
Enter Password
Login

3.3 Website Navigational Structure



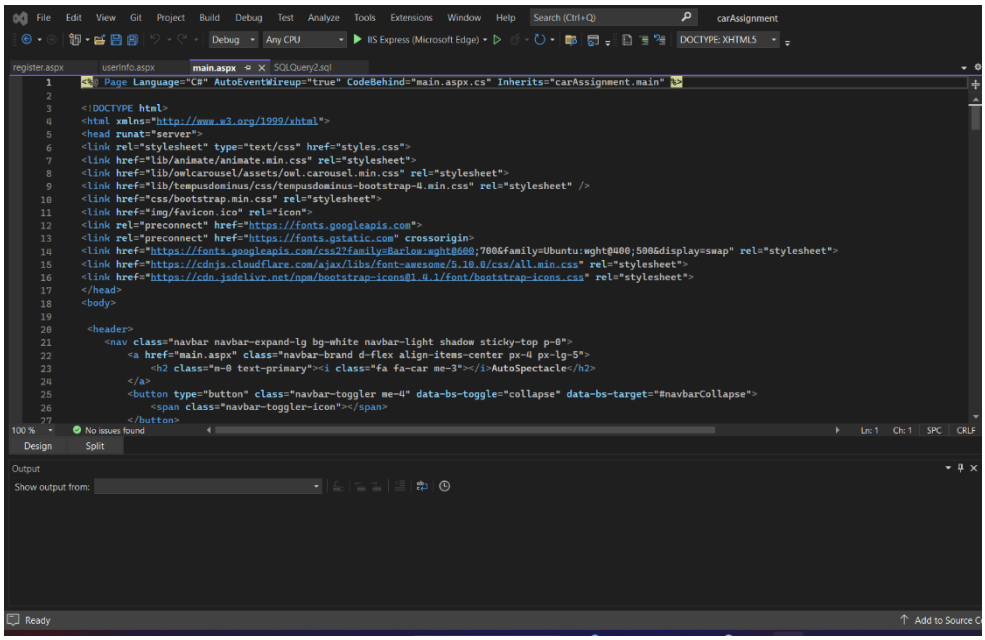
This is our car website navigational structure on the above diagram.

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

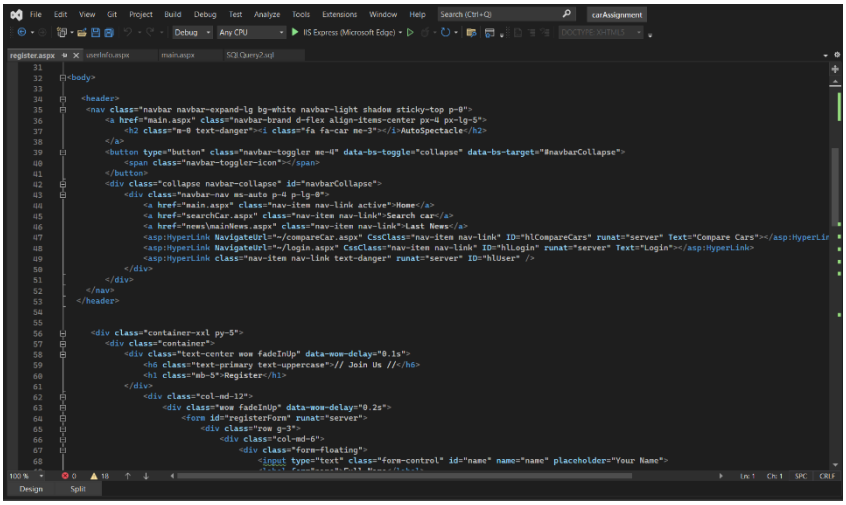


This is an HTML page containing CSS and JavaScript code to show the website with headers and sections.

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



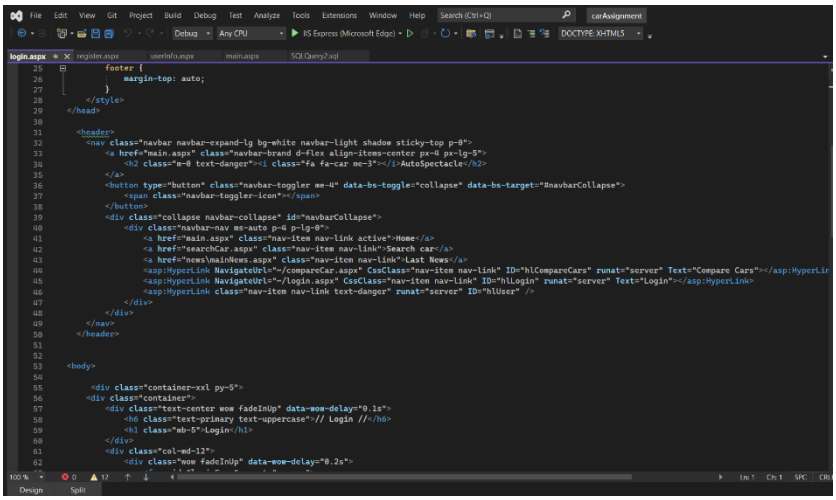
This is the source code for the register.aspx. the following shows the partial code display for the register.aspx:

```
<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

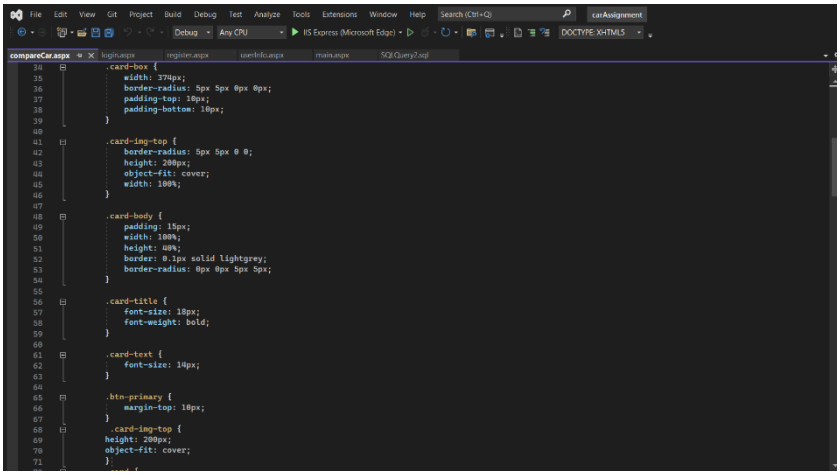


This is the login.aspx file. Below shows a fraction of the source code:

```
 <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

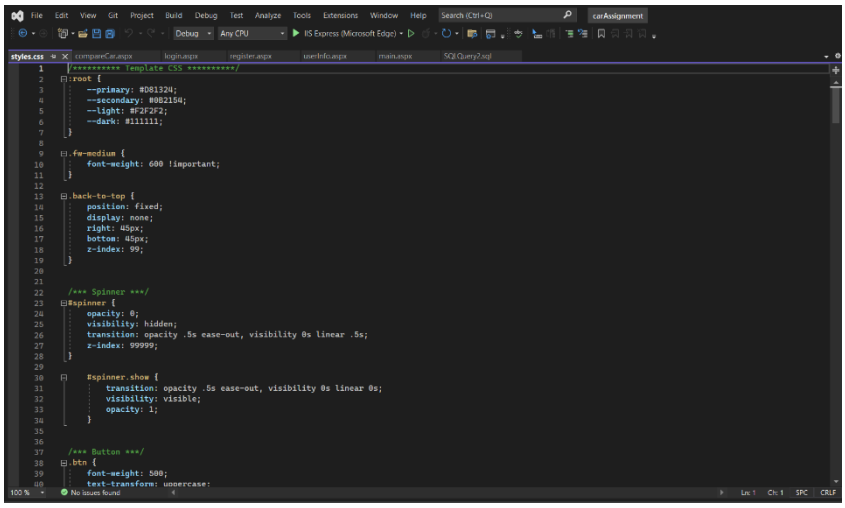


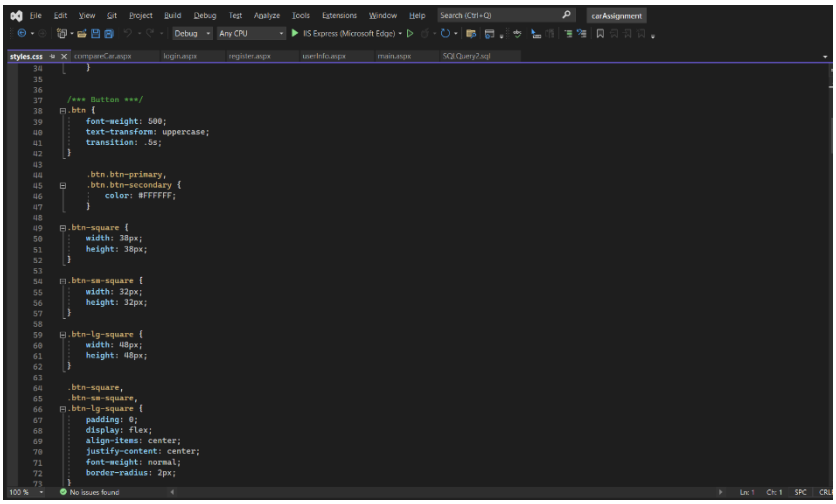
Below shows a fraction of the source code:

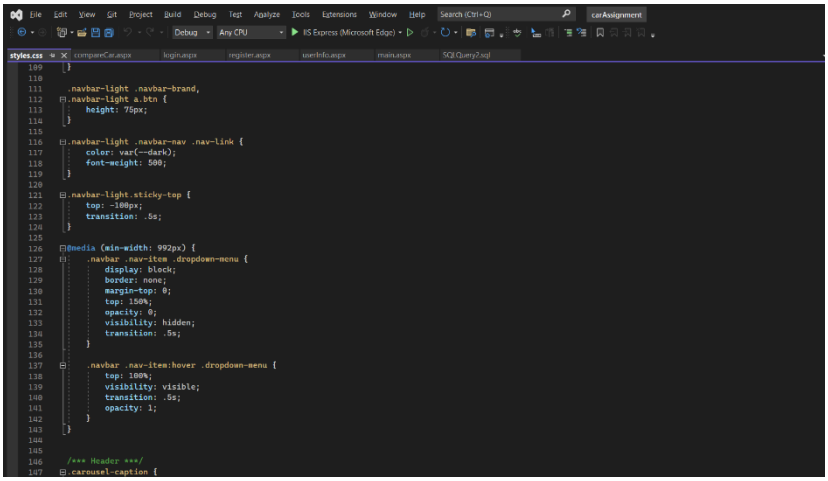
```
</div>
    <div class="container mt-5">
    <h3 class="text-center mb-4">Result:</h3>
    <div class="row">
        <asp:Repeater ID="carComparisonRepeater" runat="server">
            <ItemTemplate>
                <div class="col-md-6">
                    <div class="card mb-3">
                        <img class="card-img-top" src='<%# ResolveUrl(DataBinder.Eval(Container.DataItem, "carImage").ToString()) %>' 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>
```

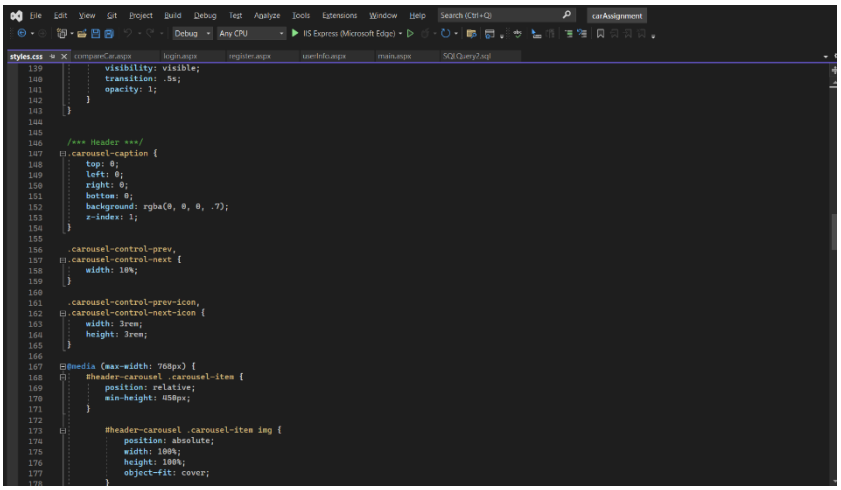
4.2 Read



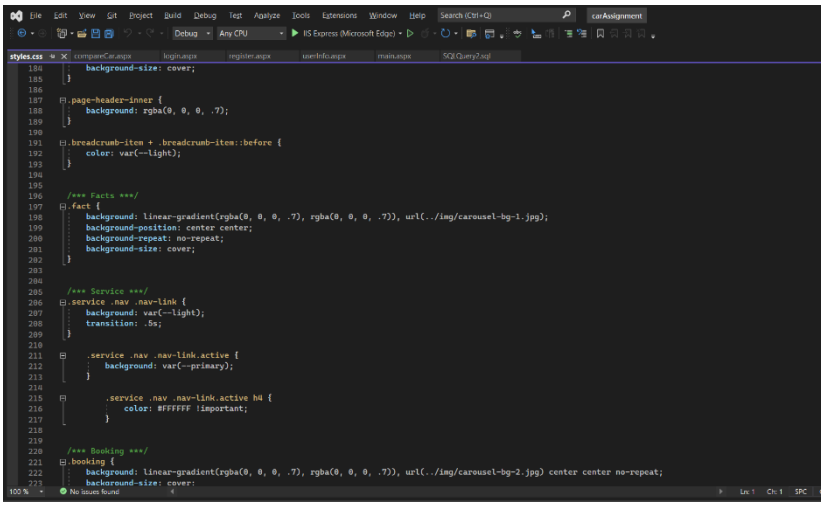




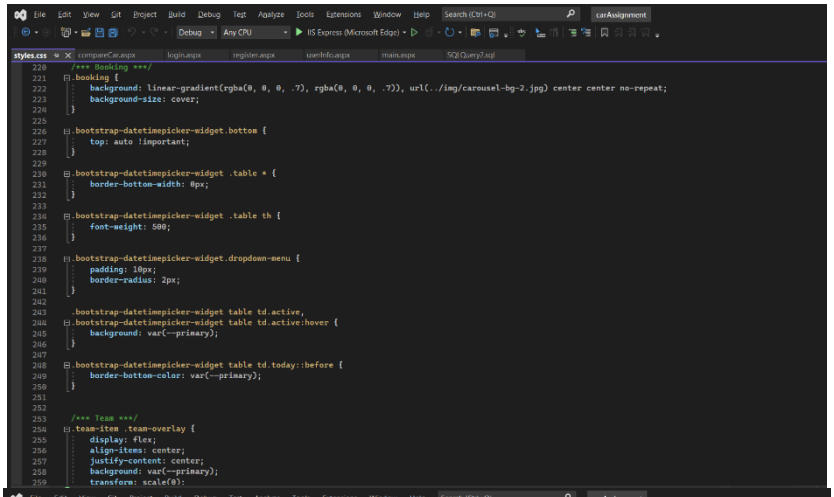
```
}

.navbar-light .navbar-brand,
.navbar-light a.btn {
    height: 75px;
}

.navbar-light .navbar-nav .nav-link {
    color: var(--dark);
    font-weight: 500;
}

.navbar-light.sticky-top {
    top: -100px;
    transition: .5s;
}

@media (min-width: 992px) {
    .navbar .nav-item .dropdown-menu {
        display: block;
        border: none;
        margin-top: 0;
        top: 150%;
        opacity: 0;
        visibility: hidden;
        transition: .5s;
    }

    .navbar .nav-item:hover .dropdown-menu {
        top: 100%;
        visibility: visible;
        transition: .5s;
        opacity: 1;
    }
}

/*** Header ***/
.carousel-caption {
```



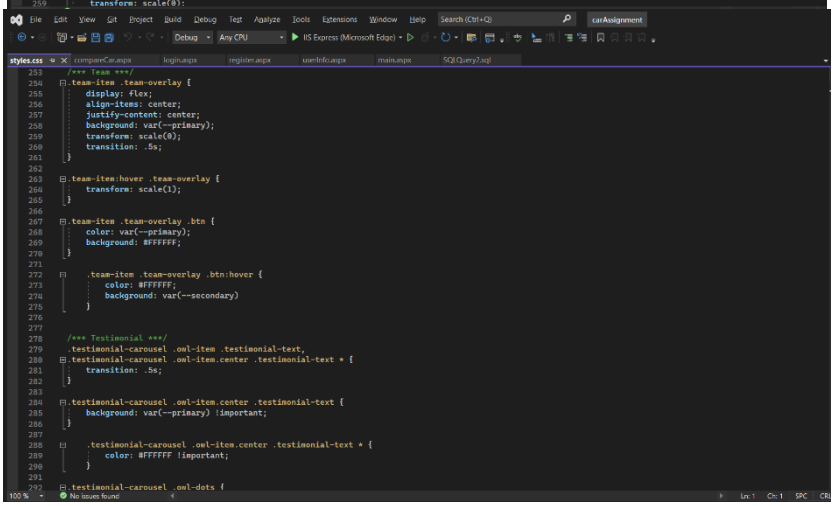
```
        visibility: visible;
        transition: .5s;
        opacity: 1;
    }
}

/*** Header ***/
.carousel-caption {
    top: 0;
    left: 0;
    right: 0;
    bottom: 0;
    background: rgba(0, 0, 0, .7);
    z-index: 1;
}

.carousel-control-prev,
.carousel-control-next {
    width: 10%;
}

.carousel-control-prev-icon,
.carousel-control-next-icon {
    width: 3rem;
    height: 3rem;
}

@media (max-width: 768px) {
    #header-carousel .carousel-item {
        position: relative;
        min-height: 450px;
    }

    #header-carousel .carousel-item img {
        position: absolute;
        width: 100%;
        height: 100%;
        object-fit: cover;
    }
```



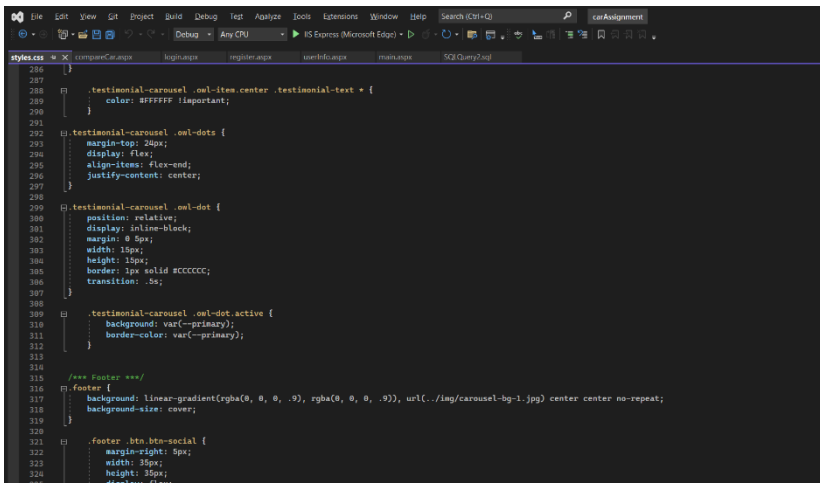
```
    background-size: cover;
}

.page-header-inner {
    background: rgba(0, 0, 0, .7);
}

.breadcrumb-item + .breadcrumb-item::before {
    color: var(--light);
}


/*** Facts ***/
.fact {
    background: linear-gradient(rgba(0, 0, 0, .7), rgba(0, 0, 0, .7)), url(../img/carousel-bg-1.jpg);
    background-position: center center;
    background-repeat: no-repeat;
    background-size: cover;
}


/*** Service ***/
.service .nav .nav-link {
    background: var(--light);
    transition: .5s;
}

.service .nav .nav-link.active {
    background: var(--primary);
}

.service .nav .nav-link.active h4 {
    color: #FFFFFF !important;
}


/*** Booking ***/
.booking {
    background: linear-gradient(rgba(0, 0, 0, .7), rgba(0, 0, 0, .7)), url(../img/carousel-bg-2.jpg) center center no-repeat;
    background-size: cover;
```



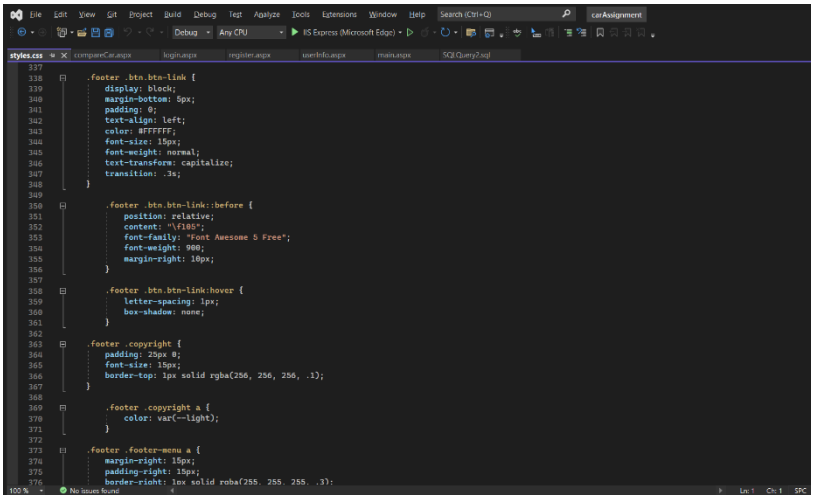
```
/*** Booking ***/
.booking {
    background: linear-gradient(rgba(0, 0, 0, .7), rgba(0, 0, 0, .7)), url(../img/carousel-bg-2.jpg) center center no-repeat;
    background-size: cover;
}

.bootstrap-datetimepicker-widget.bottom {
    top: auto !important;
}

.bootstrap-datetimepicker-widget .table * {
    border-bottom-width: 0px;
}

.bootstrap-datetimepicker-widget .table th {
    font-weight: 500;
}

.bootstrap-datetimepicker-widget.dropdown-menu {
    padding: 10px;
    border-radius: 2px;
}

.bootstrap-datetimepicker-widget table td.active,
.bootstrap-datetimepicker-widget table td.active:hover {
    background: var(--primary);
}

.bootstrap-datetimepicker-widget table td.today::before {
    border-bottom-color: var(--primary);
}


/*** Team ***/
.team-item .team-overlay {
    display: flex;
    align-items: center;
    justify-content: center;
    background: var(--primary);
    transform: scale(0);
```



```
/*** Team ***/
.team-item .team-overlay {
    display: flex;
    align-items: center;
    justify-content: center;
    background: var(--primary);
    transform: scale(0);
    transition: .5s;
}

.team-item:hover .team-overlay {
    transform: scale(1);
}

.team-item .team-overlay .btn {
    color: var(--primary);
    background: #FFFFFF;
}

    .team-item .team-overlay .btn:hover {
        color: #FFFFFF;
        background: var(--secondary)
    }


/*** Testimonial ***/
.testimonial-carousel .owl-item .testimonial-text,
.testimonial-carousel .owl-item.center .testimonial-text * {
    transition: .5s;
}

.testimonial-carousel .owl-item.center .testimonial-text {
    background: var(--primary) !important;
}

    .testimonial-carousel .owl-item.center .testimonial-text * {
        color: #FFFFFF !important;
    }

.testimonial-carousel .owl-dots {
```



```
}

    .testimonial-carousel .owl-item.center .testimonial-text * {
        color: #FFFFFF !important;
    }

.testimonial-carousel .owl-dots {
    margin-top: 24px;
    display: flex;
    align-items: flex-end;
    justify-content: center;
}

.testimonial-carousel .owl-dot {
    position: relative;
    display: inline-block;
    margin: 0 5px;
    width: 15px;
    height: 15px;
    border: 1px solid #CCCCCC;
    transition: .5s;
}

    .testimonial-carousel .owl-dot.active {
        background: var(--primary);
        border-color: var(--primary);
    }


/*** Footer ***/
.footer {
    background: linear-gradient(rgba(0, 0, 0, .9), rgba(0, 0, 0, .9)), url(../img/carousel-bg-1.jpg) center center no-repeat;
    background-size: cover;
}

    .footer .btn.btn-social {
        margin-right: 5px;
        width: 35px;
        height: 35px;
```

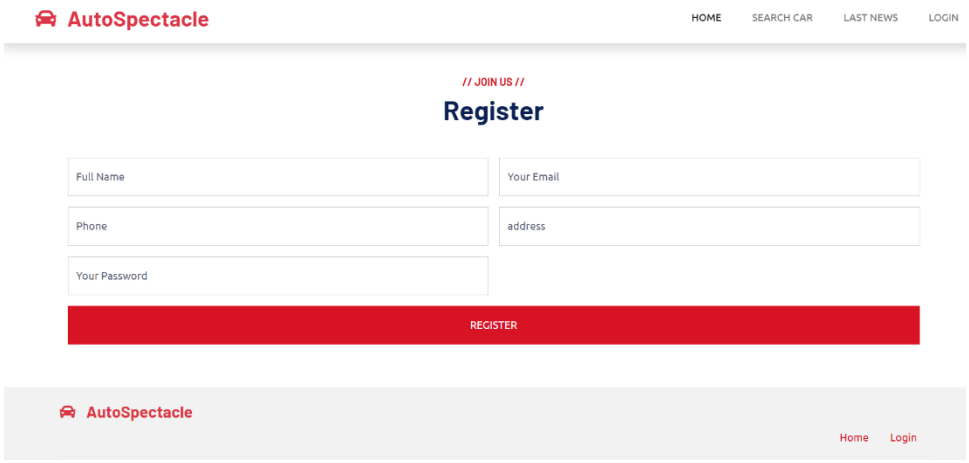


```
.footer .btn.btn-link {
    display: block;
    margin-bottom: 5px;
    padding: 0;
    text-align: left;
    color: #FFFFFF;
    font-size: 15px;
    font-weight: normal;
    text-transform: capitalize;
    transition: .3s;
}

    .footer .btn.btn-link::before {
        position: relative;
        content: "\f105";
        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;
    padding-right: 15px;
    border-right: 1px solid rgba(255, 255, 255, .3);
```

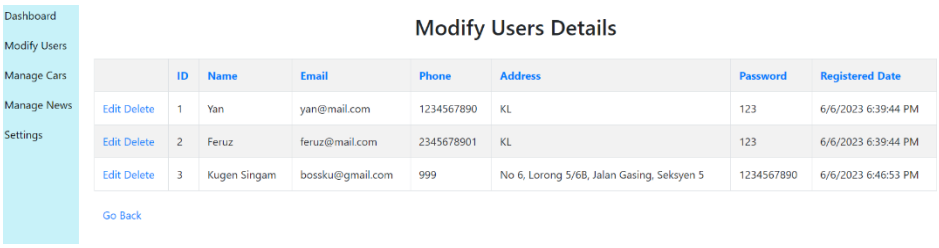
This CSS code includes a set of style rules for HTML content. Here's a rundown of the important points:

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. web kit-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.

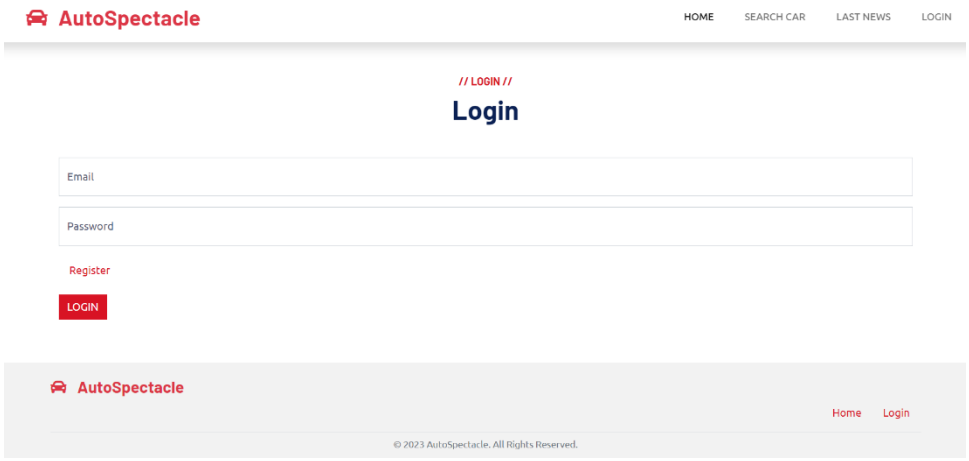
4.3 Update



First, the user must register as a member.



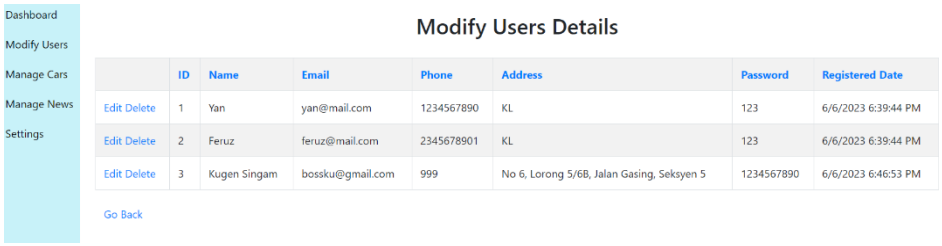
After the user has registered successfully then it will pop up in the database.

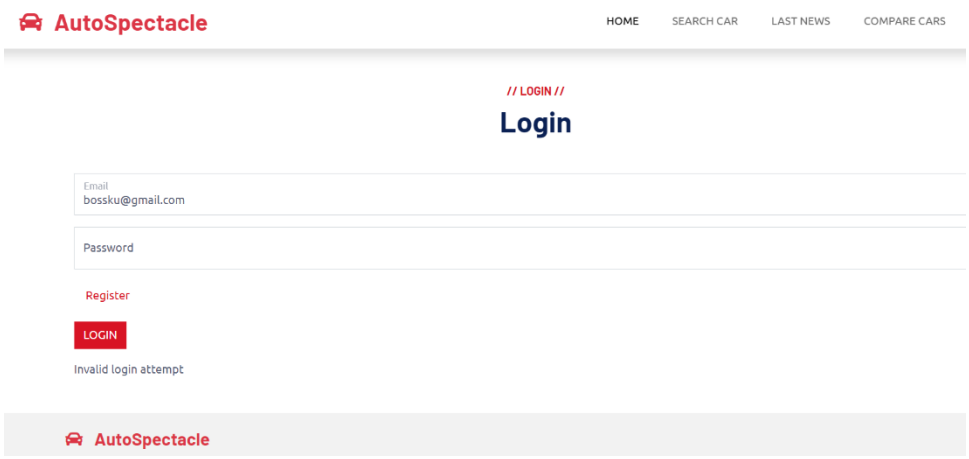


Finally, the user will be able to login to the account

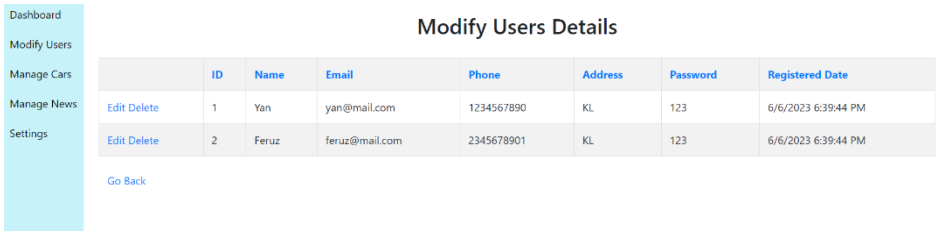
4.4 Delete

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



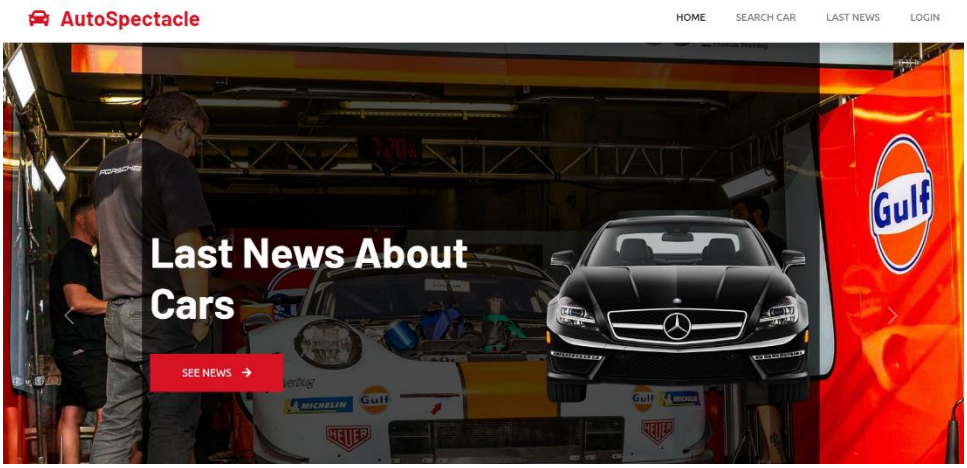


After the data has been deleted, then the user will not be able to login to the account using their credentials.

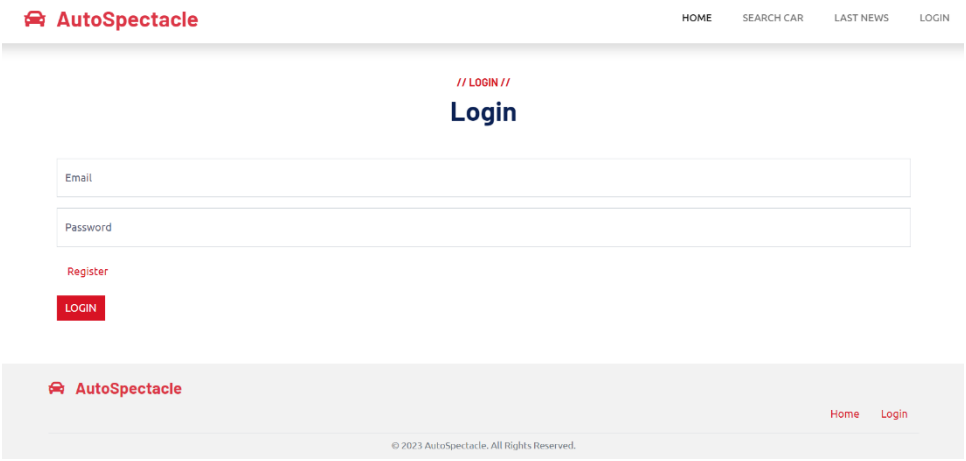


4.5 Login

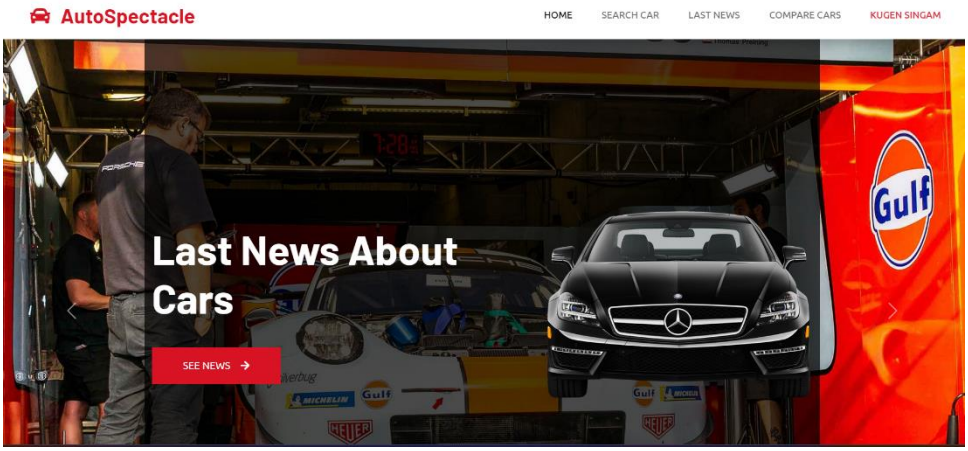
Before the members login to their page this will be the homepage



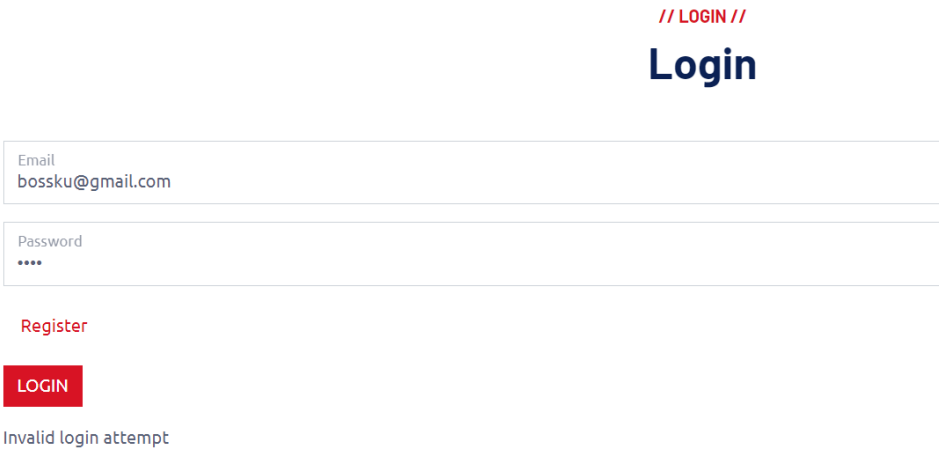
This is the login page for the member



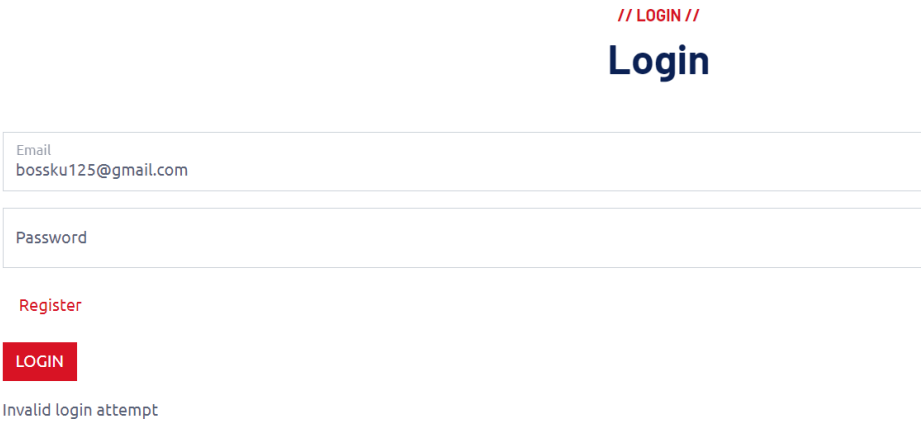
After the members login with their credentials then they will be able to move to the homepage



This is the homepage that the user will get into



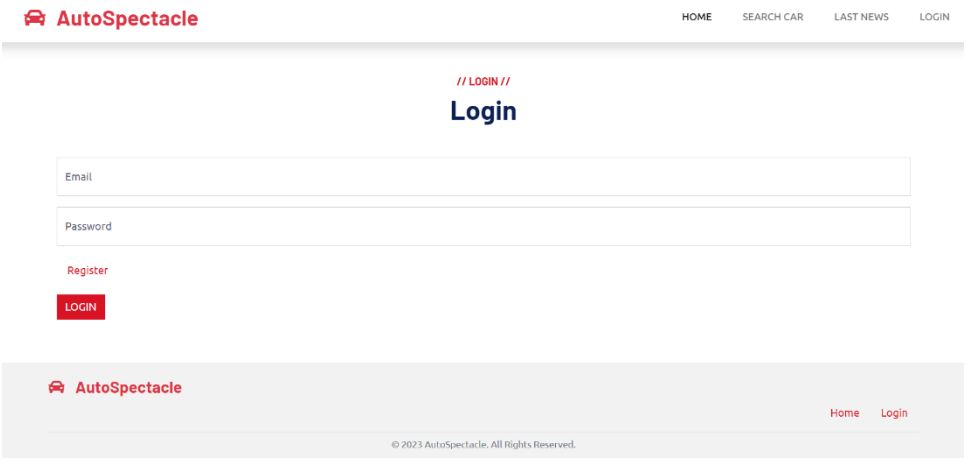
Error username and password



Invalid username and password

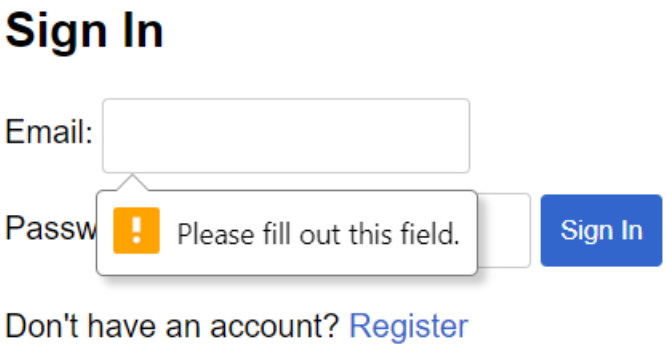
Once everything is successful then the user will be able to use the account

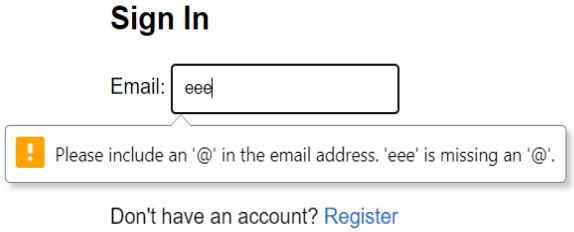
4.6 Log out



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

4.7 Form Validation





Sign In

Email: kugenath007@gmail.com

Password: Sign In

Don't have Please fill out this field.

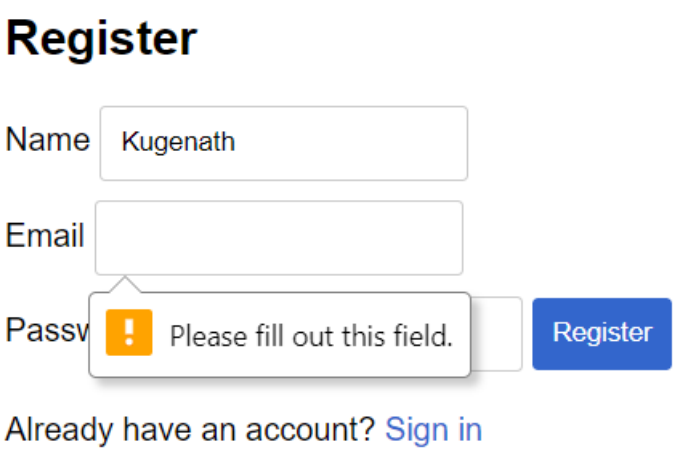
Register

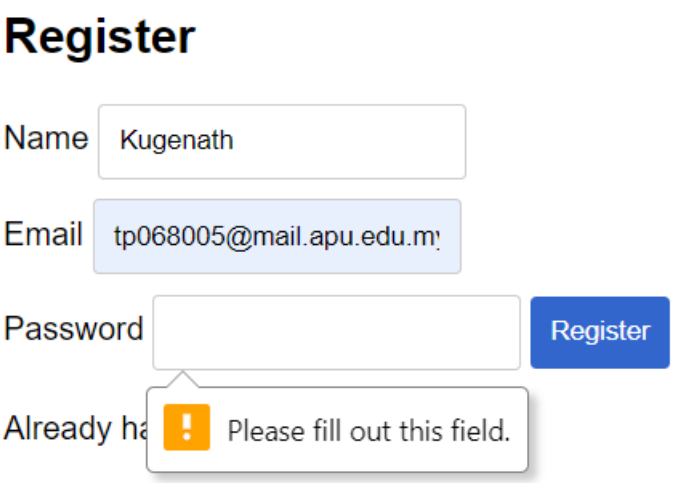
Name

Email Please fill out this field.

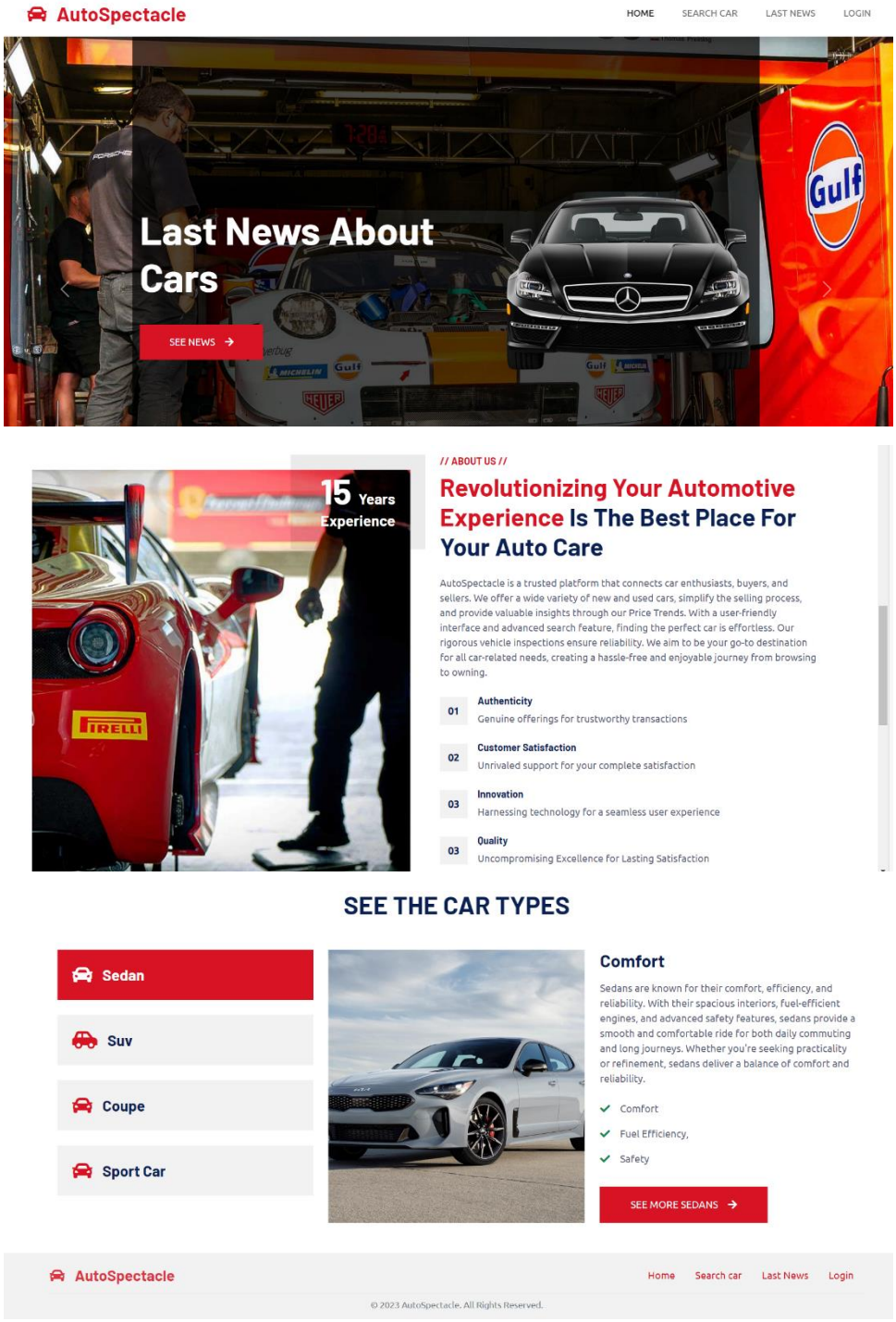
Password Register

Already have an account? Sign in


Register
Name
Kugenath
Email
Passv
Please fill out this field.
Register
Already have an account? Sign in

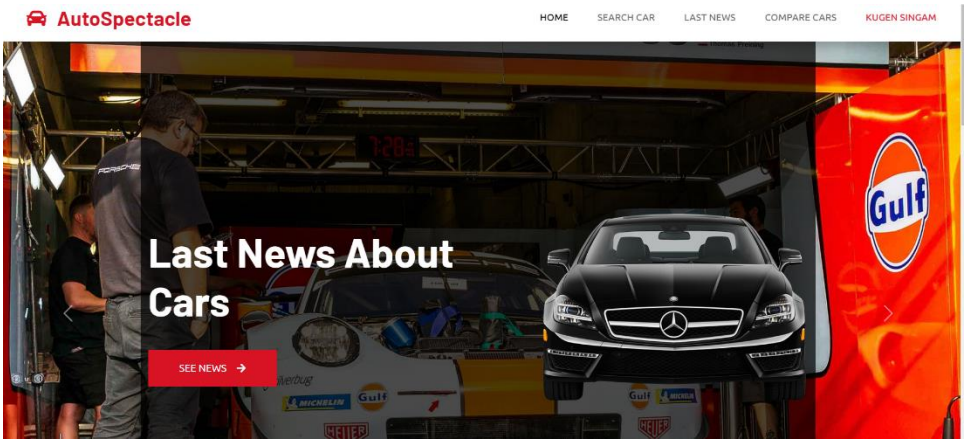

Register
Name
Kugenath
Email
tp068005@mail.apu.edu.m
Password
Register
Already ha
Please fill out this field.

5.0 User Guidance

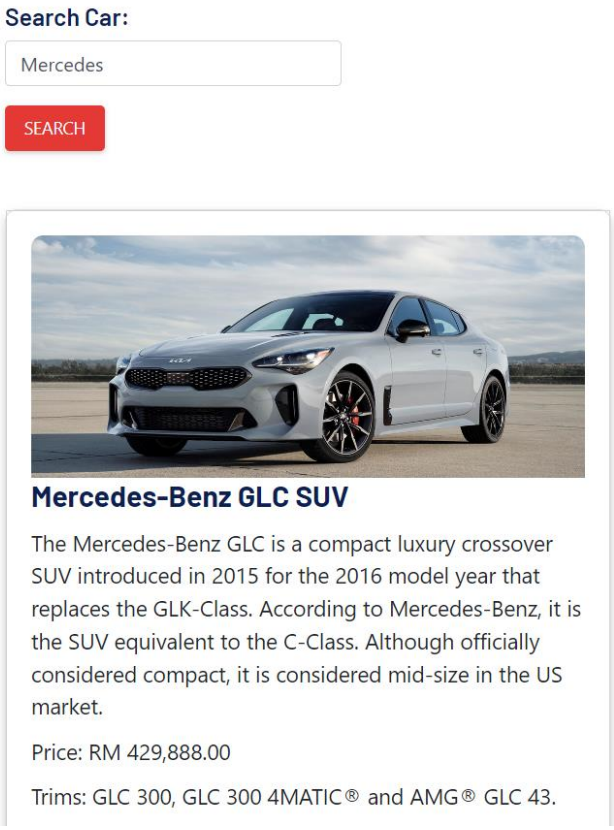


This is the homepage of our car website. First of all, at the beginning of the page is the AutoSpectacle which is the name of the website, and at the top right-hand side is the navigation bar for the user to move to the next page. Below that, the user will be able to search for the respective car that 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

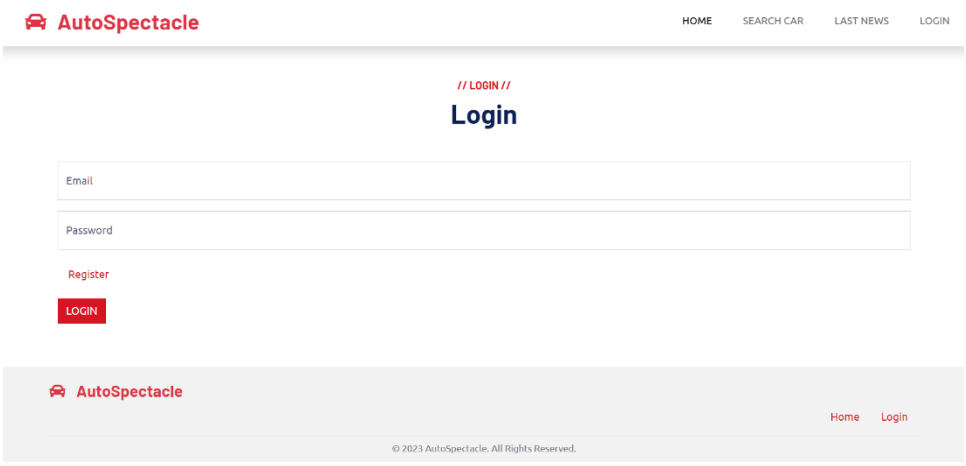
even more then they will be able to see car type that the user will be able to select the car type as there is a brief introduction for it. This is the page shown when the user has not logged in to the website.



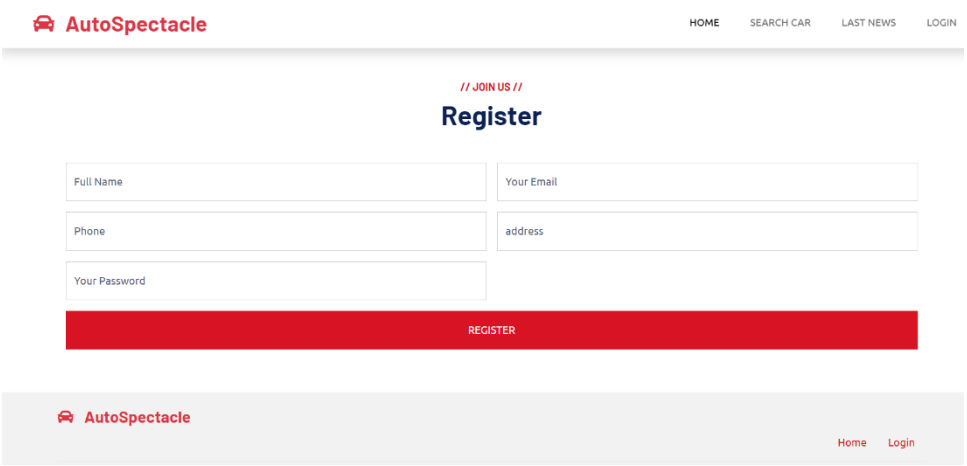
This is the homepage shown after the user have login to the website. As you can see from the top right-hand side of the page, there is the name of the user who has already logged on into the website. Once the user has logged in to the website, then they will be able to see more details about the website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



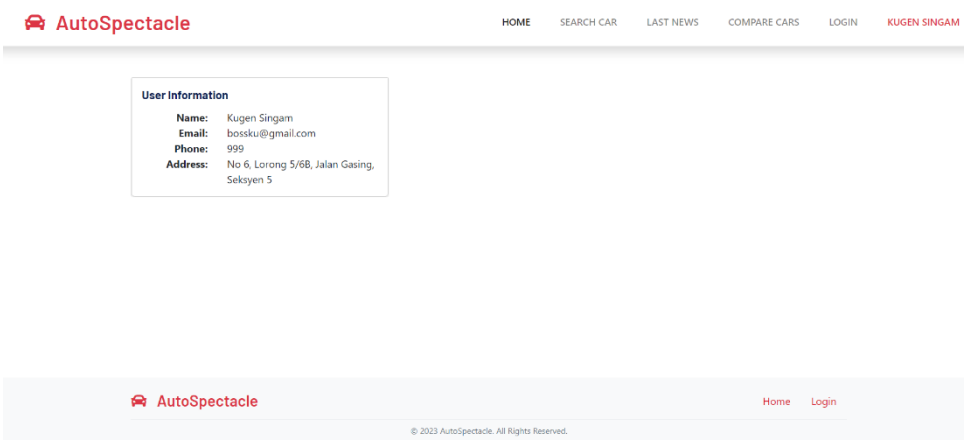
On the next page of our website is the Search Car website where the user will be able to search for the car that they would like to use. Also, on this website the user will be able to choose the car that they want to such as the SUV, Sedan, Coupe or Sport Car which also depends on the user's comfort 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.



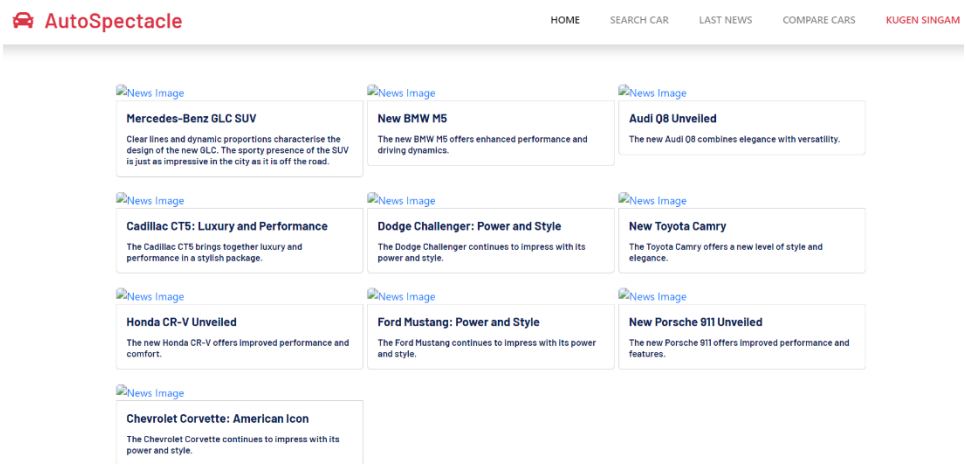
For this part of the page, the customer will be able to sign in their credentials once they have registered an account. All the user needs to do is to put in their email and password. Once they are done with that, then they will be able to sign in. Let's say if the user doesn't have an account yet, then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

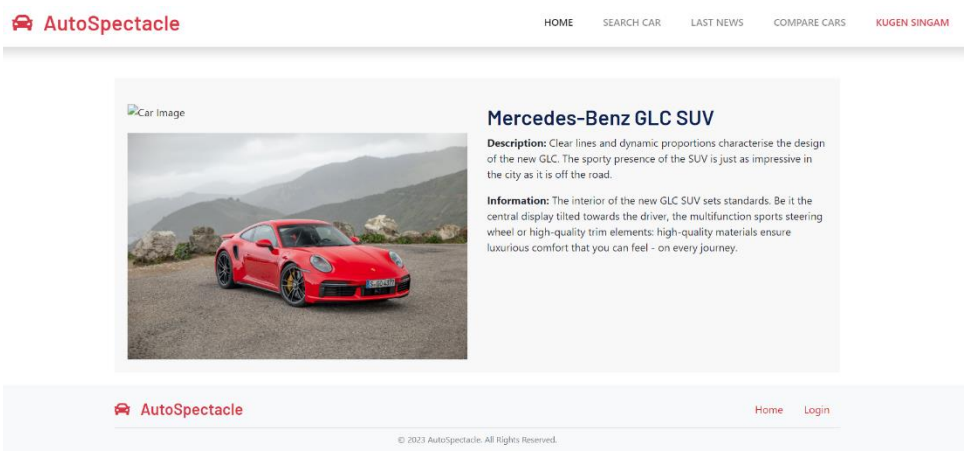


On this part of the page, the user will be able to register their details here. The user will need to key in their details such as their Full Name, Email, Phone, Address and also their password. Once the user has already keyed in their details then they will need to click on the register button. Once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

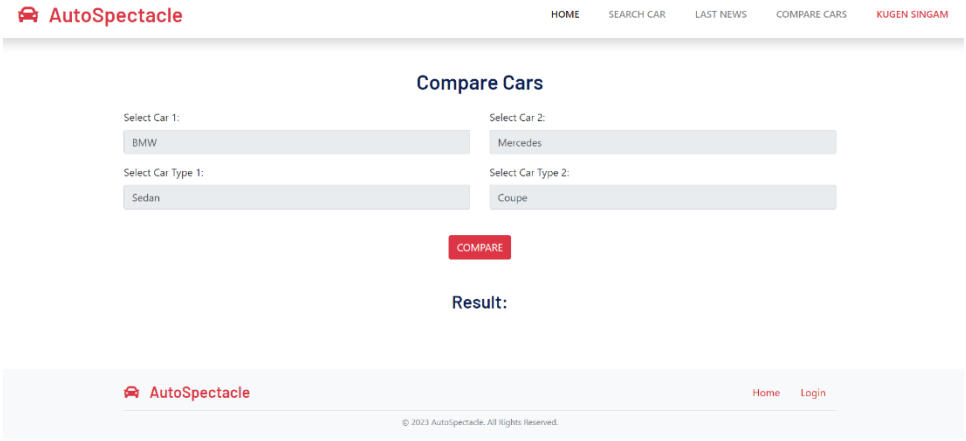


On this part of the page, the user will be able to view their personal details that they have already signed up for. For example, the user information that they will be able to view is their Name, Email, Phone and their address where they have keyed in during their registration time. Furthermore, at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



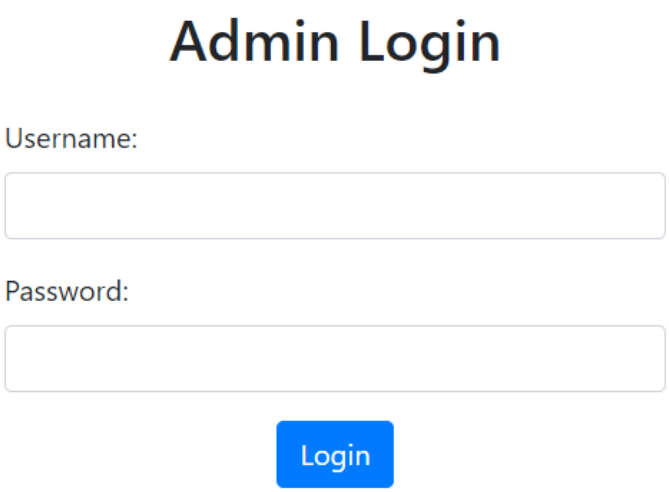


On this part of the website, the user will be able to see the last news which has been provided by the company. For example, Mercedes-Benz GLC SUV. Clear lines and dynamic proportions characterize the design of the new GLC. The sporty presence of the SUV is just as impressive in the city as it is off 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.

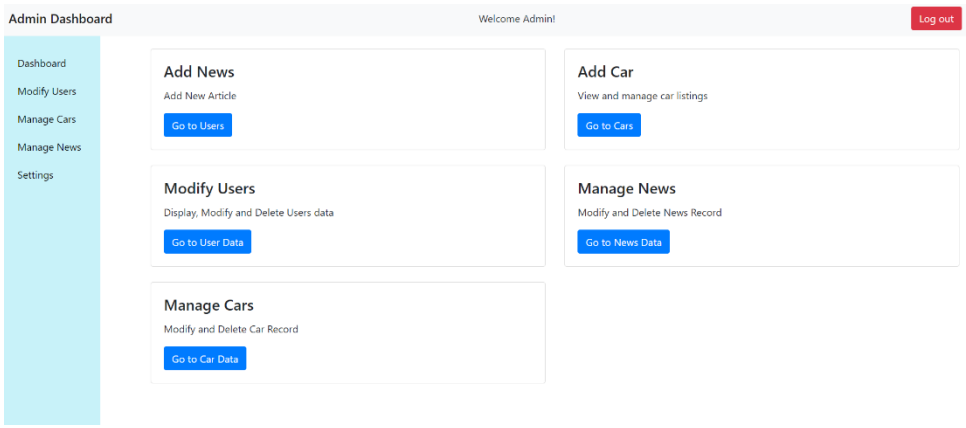


On this particular website, the user will be able to compare cars with the cars they love. For example, a BMW and a Mercedes can be compared. Not only that, but the user will be able to also select the car type that they would love to compare such as the Sedan type or the Coupe type of car. Once they 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



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



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	bossku@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	Horsepowe
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

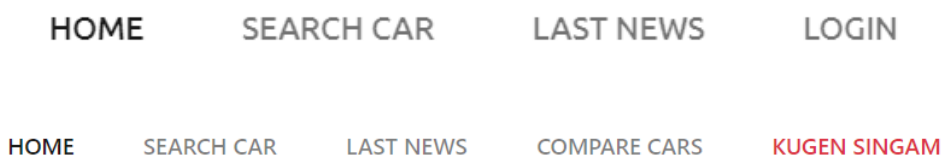
On this part of the page, the admin will also be able to manage the cars for the user to see. There are a few examples pf car that have been stated in the admin page for the user to see on the website. The admin will also be able to edit and delete the managed cards. Not only that, if there are new arrivals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

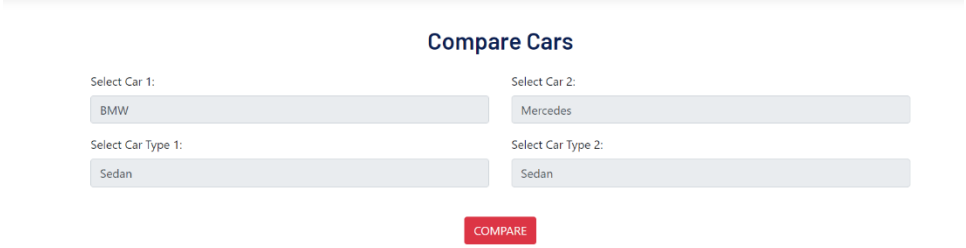
On this part of the page, the admin will be able to manage the news for the user to see the news. For example, if the admin deletes the news here, then the user will not be able to view the news on the website. The admin is also able to edit the news, so when it is edited here and then it will also be 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



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.



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.

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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.

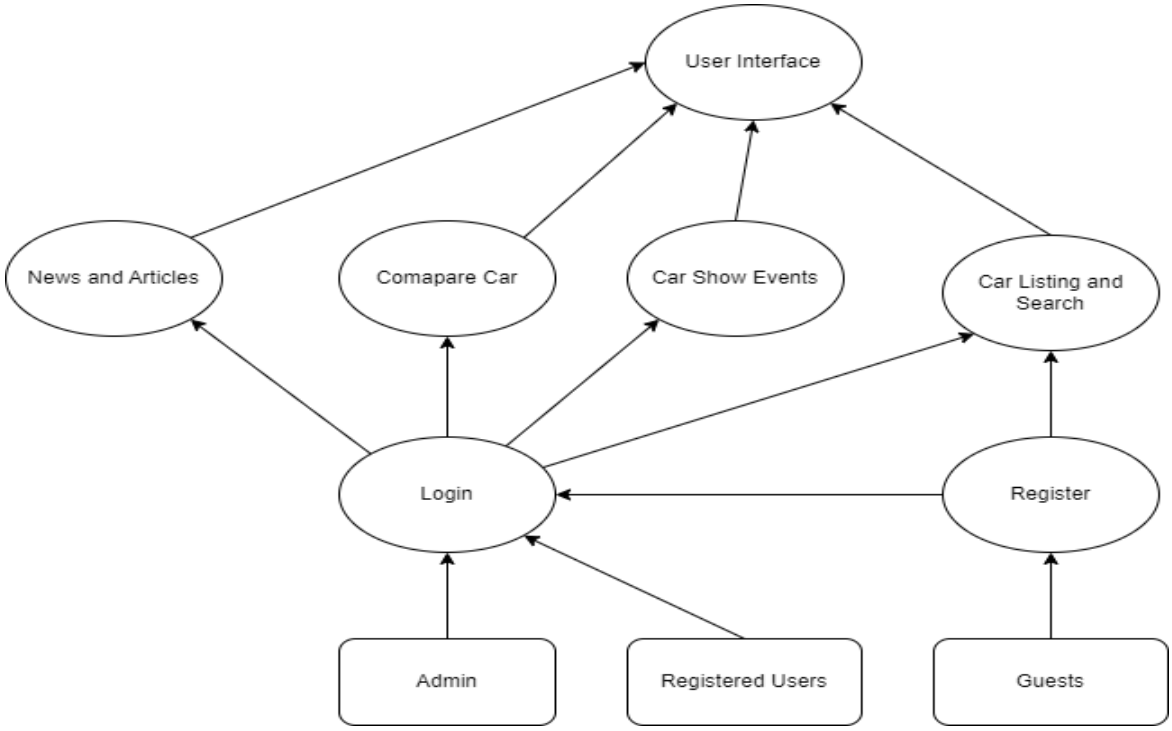

Figure 2: Shows the Diagram of 'AutoSpectacle.com'

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.