College Of Arts & Sciences

COSC 333 Web Programing

Final Report

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Submitted to:

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Fall 2023

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Introduction

We were required to complete a project for the Web Programming course that involved creating a website's front end with a specific goal in mind.

Accordingly, the project we chose to implement is a car rental e-commerce website. Were the client is showcased various services and car types to choose from with the facility to connect with both us the engineers or the Business "Website" Owners.

This report summarizes our project, giving an overview of the motivation behind this project and the process we went through to reach our final project. It also includes screenshots of our website and a briefing of the features we implemented on the website.

Motivation

When we were younger, the mere thought of cars sparked our imaginations, fueling a deep-seated passion. So, when the opportunity arose to create a website for our course project, excitement immediately lit up within us. Inspired by our shared childhood dreams and love for cars, we eagerly dove into the work, giving life to a project that embodies not just a course requirement but a genuine reflection of our enthusiasm for the world of automobiles.

Our Project

Overview

Our eCommerce platform for car rentals has a modern, polished look that facilitates easy online automobile reservations. It has an easy-to-use interface and is divided into sections for different services for cars in addition to a contact page. With its elegant orange-to-white color scheme, the design complements our brand well and gives users a memorable and engaging experience.
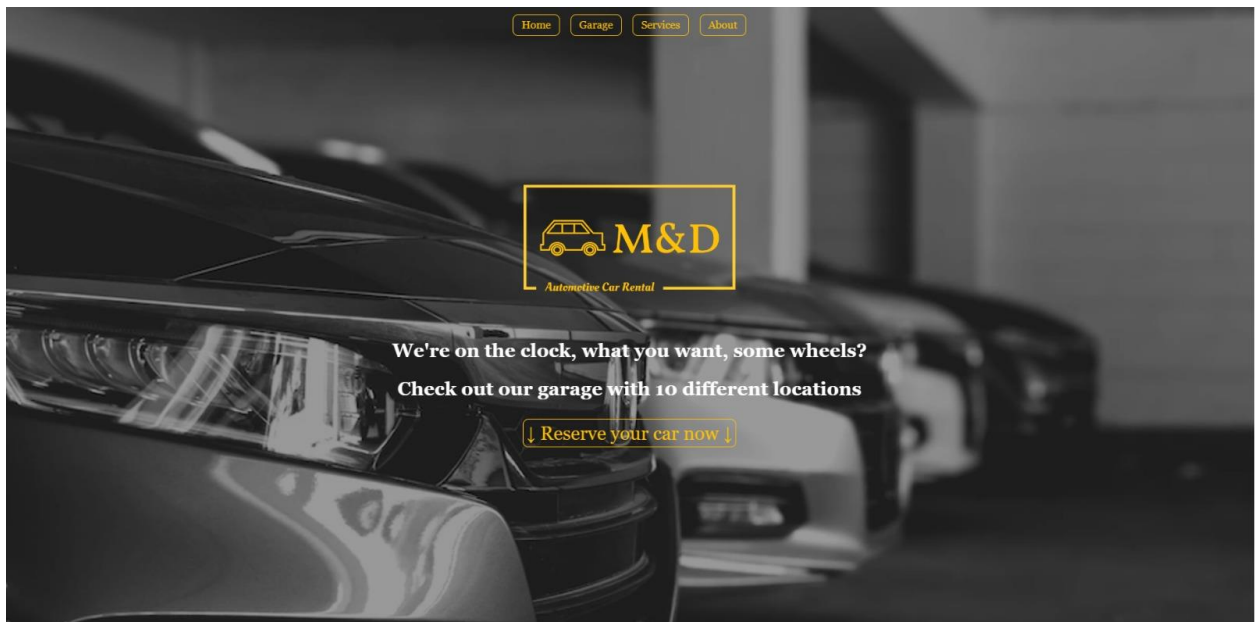

Figure I : Landing Page

Features

Our website includes many features that makes it standout to users. Among these features is the Fade-In effect. This is done by using the keyframe property in CSS.

```css
@keyframes fadeIn {
  0% {
    opacity: 0;
  }
  100% {
    opacity: 1;
  }
}
.fadein {
  animation: fadeIn
  cubic-bezier(1, 0, 1, 1) 1.5s forwards;
}
```

Figure II : Code for Fade in

Another feature of our website is the responsive. We made sure that the website is device-friendly, and that our users can enjoy the website from the comfort of their handheld devices.
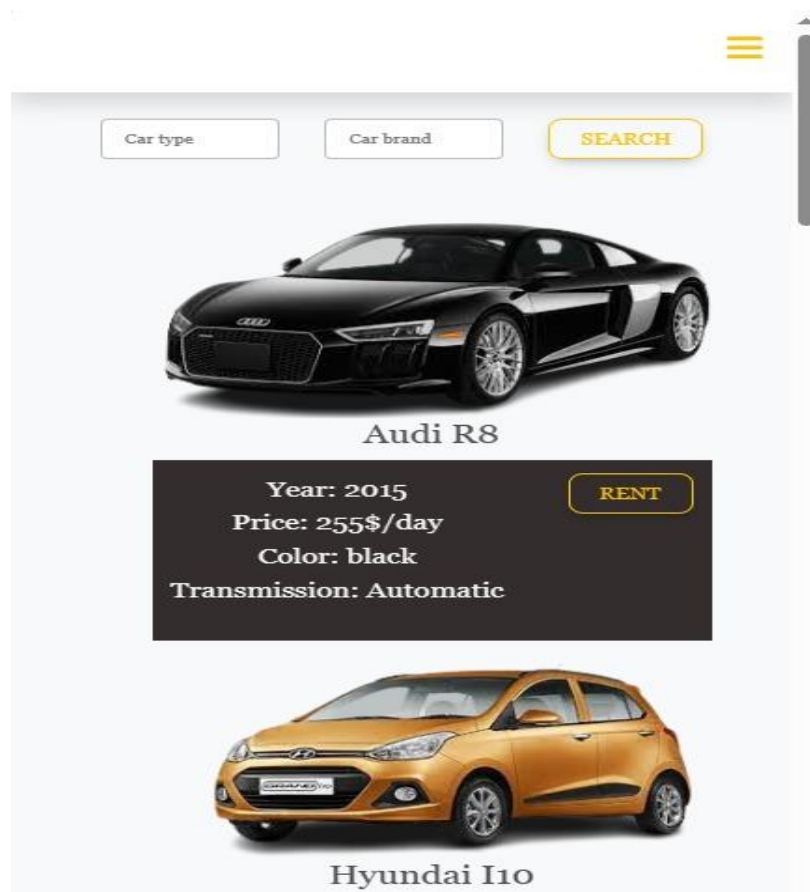

Figure III : Responsive Garage

Our website also features filters for cars. This means that the user can filter out the category they want to see.
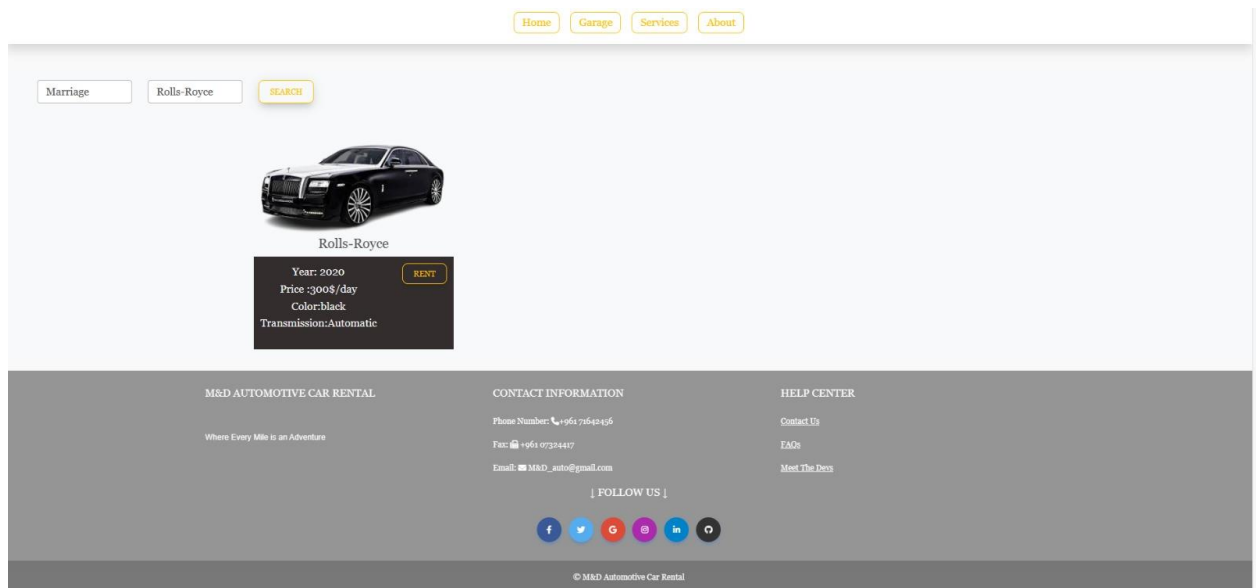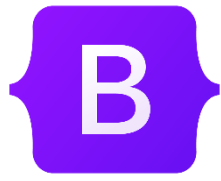

Figure IV : Filtered Garage

```
// filter cars with jquery
$("#searchbtn").on("click", filtercars);
Codeium: Refactor | Explain | Generate JSDoc
function filtercars() {
  var filterValue1 = $("#filter1").val().toLowerCase();
  var filterValue2 = $("#filter2").val().toLowerCase();

  $(".col-xs-12").each(function() {
    var divClass = $(this).attr("class").toLowerCase();
    if(divClass.includes(filterValue1) && divClass.includes(filterValue2)) {
      $(this).show();
    } else {
      $(this).hide();
    }
  });
}
```
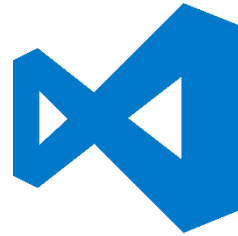
Figure V : Filtering Algorithm

Technologies Utilized

Bootstrap

JavaScript

Visual Studio Code

HTML 5

GitHub

CSS

jQuery

Next Step

After Our Delightful experience with COSC 333 we decided to continue our track at university in software engineering and we will be taking COSC 434 hopefully the following semester. Thanks for being a part of our journeys as you (Dr.Roaa Soloh) played a part in our orientation towards falling in love with software engineering and web development and we hope to complete this journey with your assistance.