C#.NET CAPSTONE: GC Car Dealership

NOTE: Points should be awarded for items that are written correctly in themselves, but don't actually work because other things are broken. There is a total of 10 points available for this lab.

Intro: Grand Circus wants to start a new venture by making an API to show its wide selection of cars. This API can then be used by any web application that wants to show this information to everyday customers.

Task:

1. Build an API that will provide information about cars. This information will be stored in a database.

What Will the Application Do?Build an ASP.NET MVC Web Application to access the car API. The application will access the data and search it.

- Car API:
    - **1 Point:** The API can show information about cars by using make, model, year, color.
    - PI should be able to send the information back to the client using JSON. **1 Point:** The A
- Web application:
    - **1 Point:** The web application that you need to build will be a client for the Car API.
    - **1 Point:** The web app should provide search capabilities to the user.
    - **1 Point:** The user can search for cars by make, model, year, color, or a combination of any.

Build Specifications

- **1 Point:** Start by building the database. You mainly need a table to store information about cars (make, model, year, color). The Car API will utilize this database.
- **1 Point:** Build the application using ASP.NET MVC. The application will access the Car API, then use the API to provide search capabilities to the user.

Additional Requirements

- **1 Point:** For answering the Lab Summary while submitting to the LMS.
- **-2 Points:** If there are any syntax errors or if the program does not run.

Extended Challenges

- **1 Point:** Add additional CRUD functions to your API. Allow the MVC program to also write, edit, and delete from the database via API.
- **1 Point:** Use Identity Framework to save a user's favorite cars to a Cars table.
  Hint: The Db that Identity Framework points to should be *separate* from the Db your API is pulling from.

E: 9-10 **M:** 6 - 8 **D:** 0 - 5