"Car Lot" is an ASP.NET application developed using .NET 5 MVC with Entity Framework Core.

The MSSQL database is created automatically on startup.

The application has API endpoints that return server data in JSON.

(e. g. localhost:[port]/api/cars/all)

Packaged used:

- AutoMapper.Extensions.Microsoft.DependencyInjection
- Microsoft.AspNetCore.Mvc.NewtonsoftJson
- Microsoft.EntityFrameworkCore
- Microsoft.EntityFrameworkCore.Design
- Microsoft.EntityFrameworkCore.SqlServer
- Microsoft.EntityFrameworkCore.Tools

The application uses 4 tables that work together: **Cars**, **Makes**, **Models** and **Owners**. It supports all CRUD operations.

Whenever a new car is added, it checks if the Owner, Make or Model of the car are already in the table, and if they are, it doesn't add any new records (other than the Car itself).

A Car can only have a single Owner and a single Model (and Make).

An Owner can have multiple Cars.

A Make can have multiple Models and a Model can only have one Make.