

Mitchell Coding Challenge:

By: Supriya Kulkarni

Organization of file:

1) MitchellChallenge\MitchellChallenge\BusinessLogic\Interface\IVehicleBusiness.cs

Is the interface that has the methods the API needs to have .

2) MitchellChallenge\MitchellChallenge\BusinessLogic\Interface\VehicleBusiness.cs

Implements the above interface .

3) MitchellChallenge\MitchellChallenge\Controllers\VehicleController.cs is the controller

4) MitchellChallenge\MitchellChallenge\DataHelper\VehicleHelper.cs is the Data base helper that actually performs Database operations using the entity framwework.

5) MitchellChallenge\MitchellChallenge\Models\VehicleModel.cs is the model.

6) MitchellChallenge\MitchellChallenge\Views\Home\Index.cshtml is the client that calls the restful api methods.

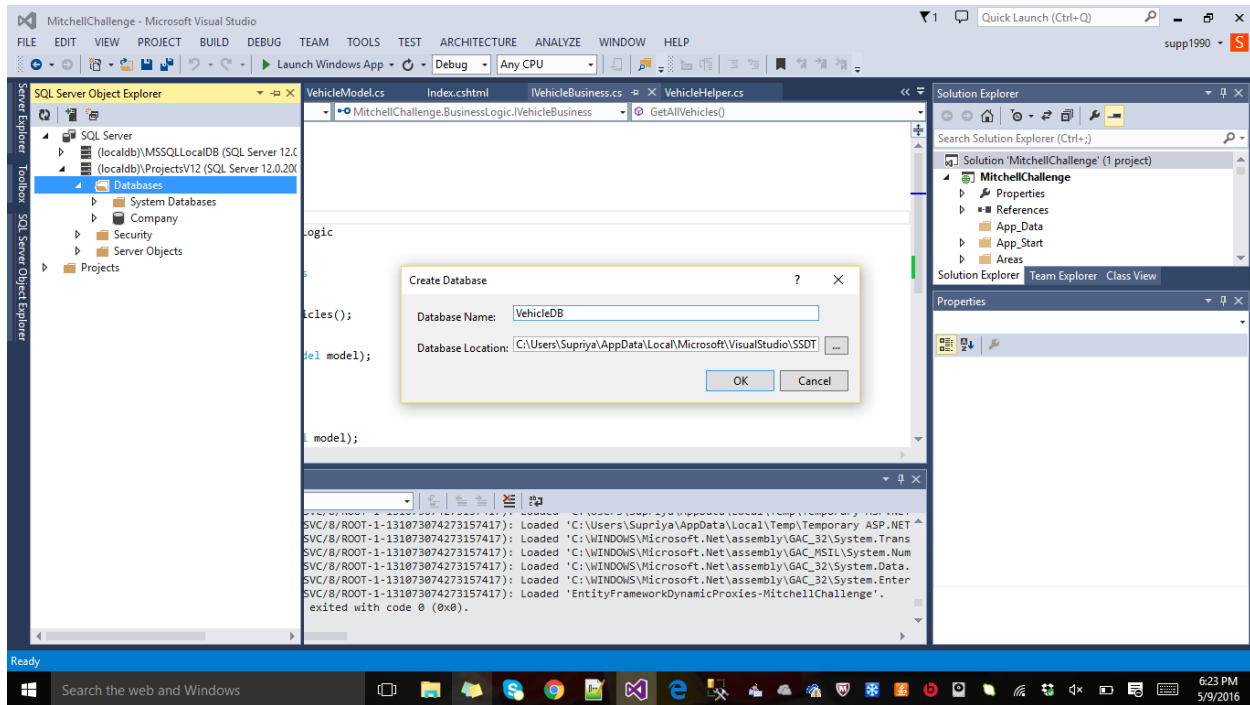
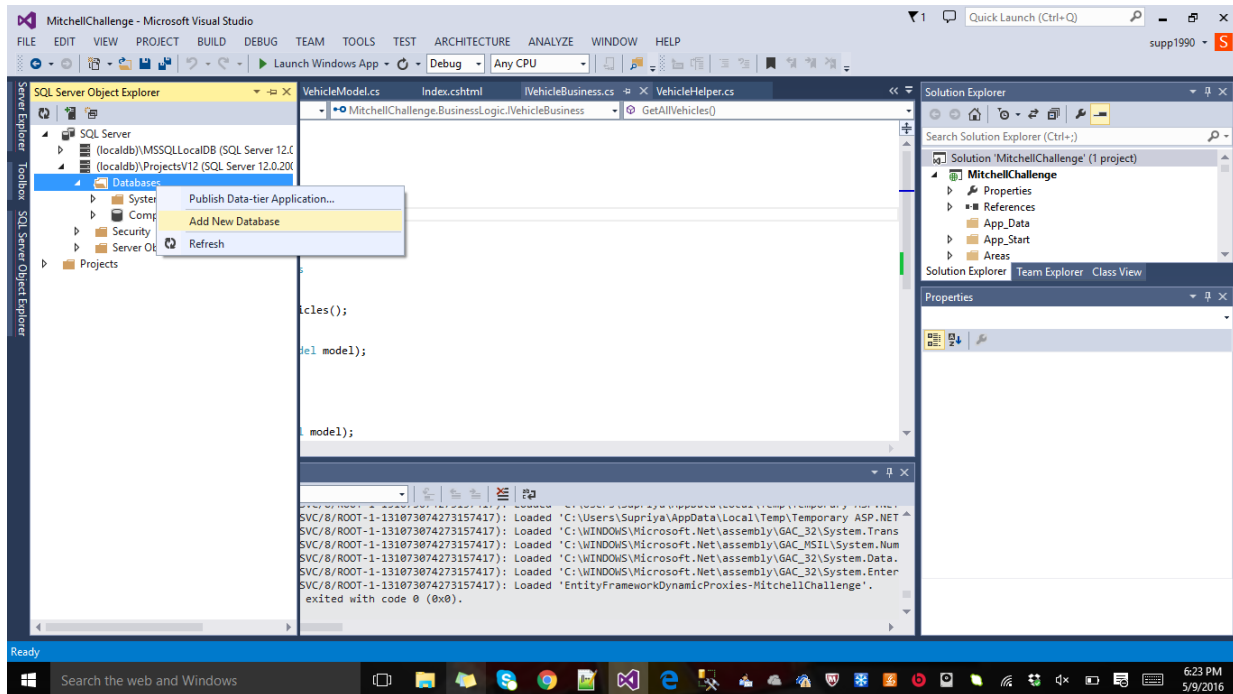
Features Implemented:

- 1) REST API with all required operations.
- 2) Validations on client side and data annotation used at model side.
- 3) Client that consumes this API.
- 4) Used knockout JS and bootstrap .

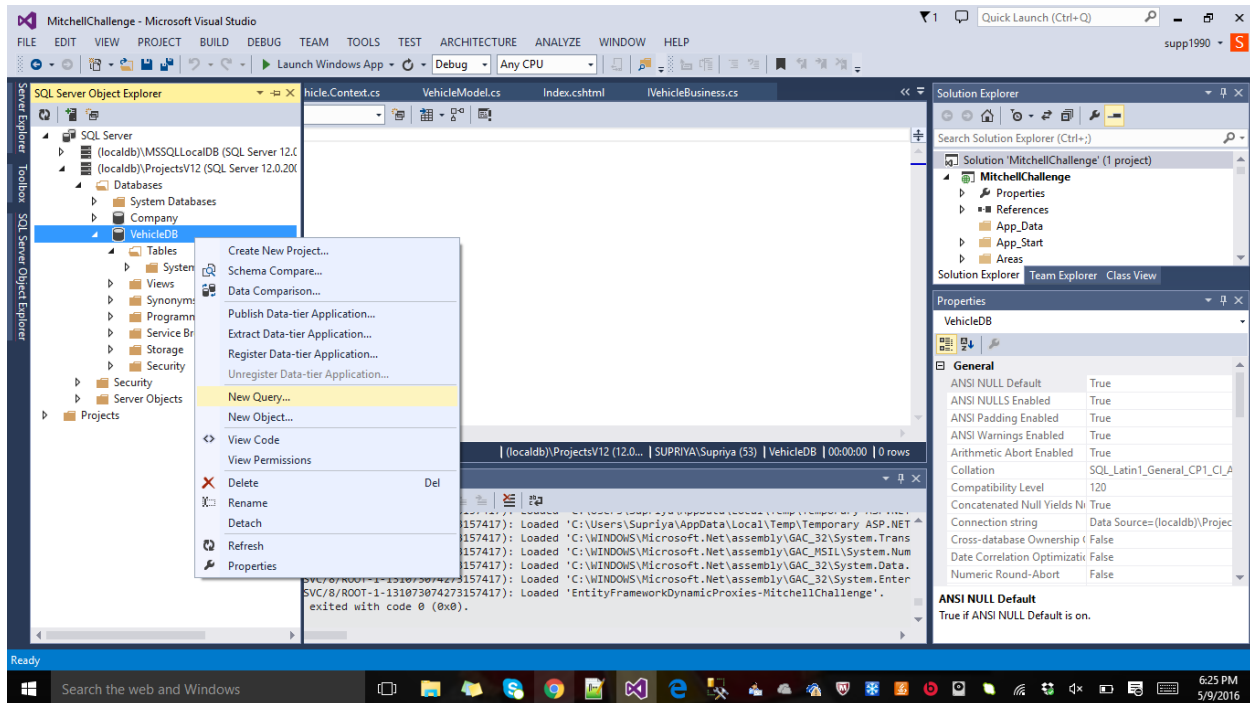
Running

The project needs Visual Studio 2013 or above. The RESTFul API is written as ASP.NET MVC Web API using entity framework and this project also has a client that uses this API. Please use the below steps to run the project:

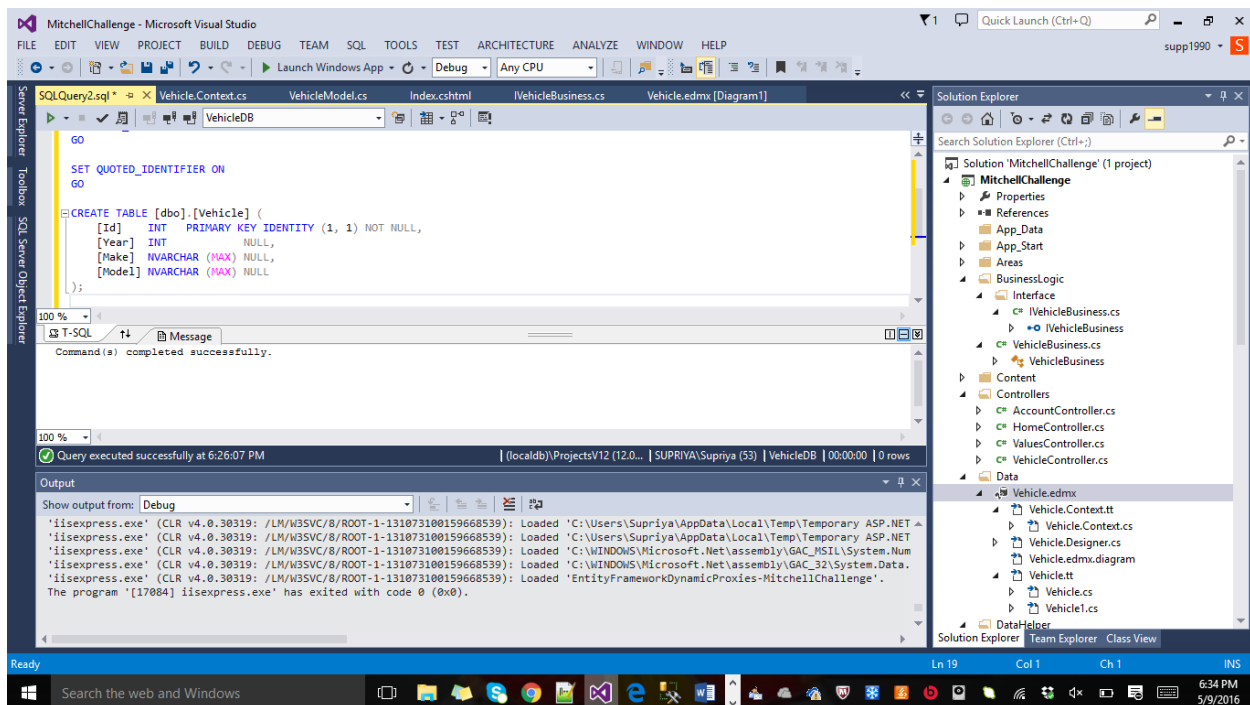
- 1) Create a Database called 'VehicleDB' through SQL Server Explorer:



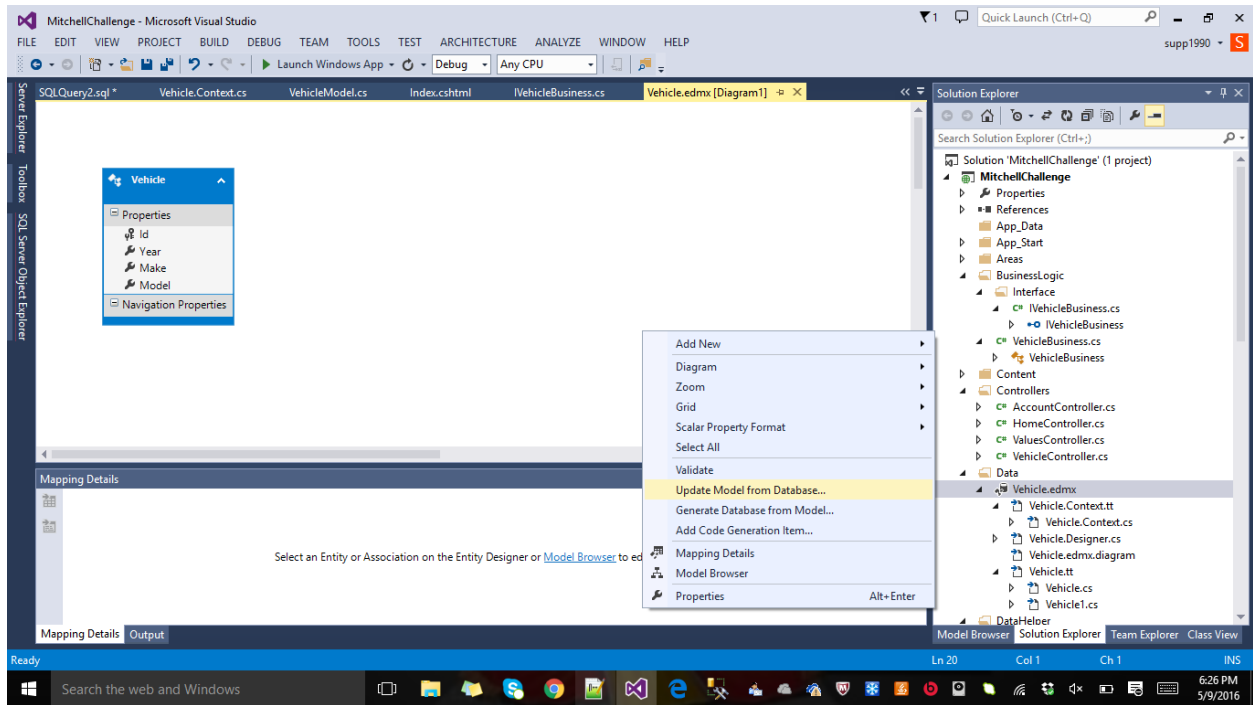
2)Open a new query window by right clicking on the Database just created



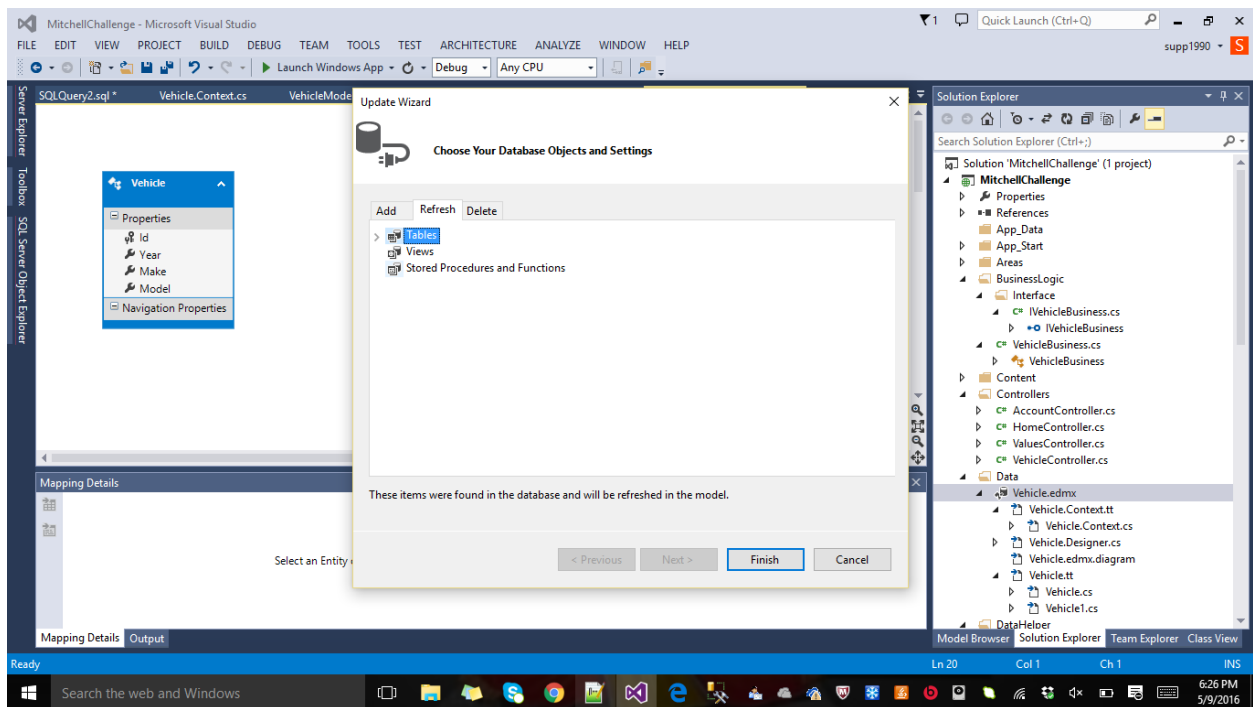
3) Copy the contents of script.sql in the query window and execute it.



4) Click on the Vehicle.edmx file located in the Data Folder in the Mitchell Challenge Project and then click on 'Update Model from Database'



5) Under the Refresh Tab select the Tables and click on finish.



6) Then click on the 'Launch Windows App' to build and run the project.











Output screen shots:

1)

Mitchell Coding Challenge

Vehicle API Client

List of Vehicles

Id	Make	Model	Year	Actions
1	BMW	qwert	2010	 
2	Merecedes	Benz	2011	 
3	Swiss	SwissModel	2012	 
4	Acura	Alpine	1990	 
5	Bentley	Buick	1967	 

Add New Vehicle

Make

Model

Year











SaveReset

2)

Mitchell Coding Challenge

Vehicle API Client

List of Vehicles

Id	Make	Model	Year	Actions
1	BMW	qwert	2010	 
2	Merecedes	Benz	2011	 
3	Swiss	SwissModel	2012	 
4	Acura	Alpine	1990	 
5	Bentley	Buick	1967	 

Update Vehicle

Make

Model

Year

UpdateCancel

Output Screenshots of the Restful API:

1)

→ C localhost:29797/api/Vehicle/GetById/5

is XML file does not appear to have any style information associated with it. The document tree is shown below.

```
/VehicleModel xmlns:i="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://schemas.datacontract.org/2004/07/MitchellChallenge.Mode
<Id>5</Id>
<Make>Bentley</Make>
<Model>Buick</Model>
<Year>1967</Year>
/VehicleModel
```

2)

← → C localhost:29797/api/Vehicle/Get

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
▼ <ArrayOfVehicleModel xmlns:i="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://schemas.datacontract.org/2004/07/MitchellChallenge.Models">
  ▼ <VehicleModel>
    <Id>1</Id>
    <Make>BMW</Make>
    <Model>qwert</Model>
    <Year>2010</Year>
  </VehicleModel>
  ▼ <VehicleModel>
    <Id>2</Id>
    <Make>Mercedes</Make>
    <Model>Benz</Model>
    <Year>2011</Year>
  </VehicleModel>
  ▼ <VehicleModel>
    <Id>3</Id>
    <Make>Swiss</Make>
    <Model>SwissModel</Model>
    <Year>2012</Year>
  </VehicleModel>
  ▼ <VehicleModel>
    <Id>4</Id>
    <Make>Acura</Make>
    <Model>Alpine</Model>
    <Year>1990</Year>
  </VehicleModel>
  ▼ <VehicleModel>
    <Id>5</Id>
    <Make>Bentley</Make>
    <Model>Buick</Model>
    <Year>1967</Year>
  </VehicleModel>
</ArrayOfVehicleModel>
```