7/6/2021

Web Engineering

Name:

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|---|---|
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| Mohammad Abdul Rafay | BSE183009 |

Assignment: 05

Submitted to: Respected Sir Samir Obaid

Course: Web Engineering

Course Code: SE3523

Dated: 06th July, 2021

Web Engineering
SE3523

# Contents

## Web Page:

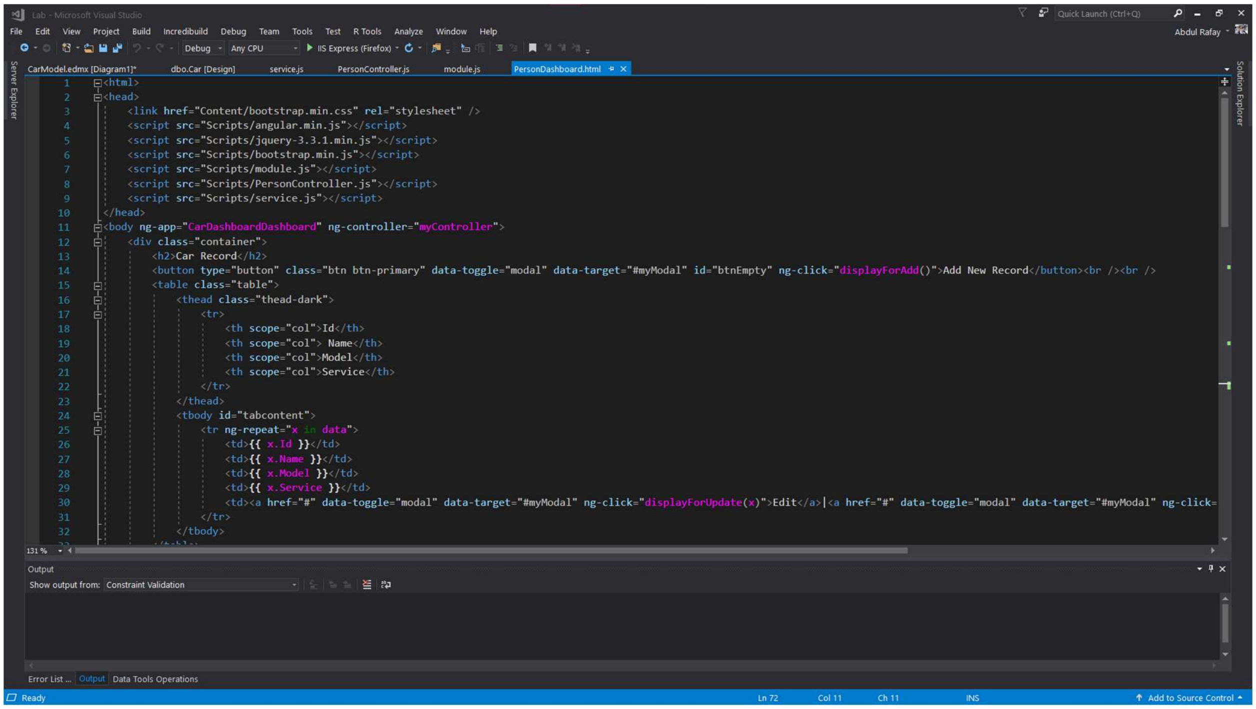
### HTML File Code:

```
<html>
<head>
    <link href="Content/bootstrap.min.css" rel="stylesheet" />
    <script src="Scripts/angular.min.js"></script>
    <script src="Scripts/jquery-3.3.1.min.js"></script>
    <script src="Scripts/bootstrap.min.js"></script>
    <script src="Scripts/module.js"></script>
    <script src="Scripts/PersonController.js"></script>
    <script src="Scripts/service.js"></script>
</head>
<body ng-app="CarDashboardDashboard" ng-controller="myController">
    <div class="container">
        <h2>Car Record</h2>
        <button type="button" class="btn btn-primary" data-toggle="modal" data-
target="#myModal" id="btnEmpty" ng-click="displayForAdd()">Add New Record</button><br
/><br />
        <table class="table">
            <thead class="thead-dark">
                <tr>
                    <th scope="col">Id</th>
                    <th scope="col"> Name</th>
                    <th scope="col">Model</th>
                    <th scope="col">Service</th>
                </tr>
            </thead>
            <tbody id="tabcontent">
                <tr ng-repeat="x in data">
                    <td>{{ x.Id }}</td>
                    <td>{{ x.Name }}</td>
                    <td>{{ x.Model }}</td>
                    <td>{{ x.Service }}</td>
                    <td><a href="#" data-toggle="modal" data-target="#myModal" ng-
click="displayForUpdate(x)">Edit</a>|<a href="#" data-toggle="modal" data-
target="#myModal" ng-click="displayForRemove(x)">Delete</a></td>
                </tr>
            </tbody>
        </table>
    </div>
    <div class="modal" id="myModal" tabindex="-1" role="dialog" aria-
labelledby="myModalLabel" aria-hidden="true">
        <div class="modal-dialog">
            <div class="modal-content">
                <div class="modal-header">
                    <h4 class="modal-title" id="myModalLabel">{{operation}}</h4>
                    <button type="button" class="close" data-dismiss="modal">×</button>
                </div>
                <div class="modal-body">
                    <form>
                        <div class="form-group">
                            <label for="EmployeeId">ID</label>
                            <input type="text" class="form-control" ng-model="Id"
placeholder="Id" />
                        </div>
                        <div class="form-group">
```

```
                            <label for="Name">Name</label>
                            <input type="text" class="form-control" ng-model="Name" 
placeholder="Name" />
                        </div>
                        <div class="form-group">
                            <label for="Name">Model</label>
                            <input type="text" class="form-control" ng-model="Model" 
placeholder="Model" />
                        </div>
                        <div class="form-group">
                            <label for="Name">Service</label>
                            <input type="text" class="form-control" ng-model="Service" 
placeholder="Service" />
                        </div>
                </div>
            </div>
            </form>
        </div>
        <div class="modal-footer">
            <!-- <button type="button" class="btn btn-primary" id="btnAdd">Add</button> -
->
            <button type="button" class="btn btn-success" data-target="myModal" data-
dismiss="modal" ng-click="addNewRecord()" id="btnAdd">Add</button>
            <button type="button" class="btn btn-danger" data-bind="myModal" data-
dismiss="modal" ng-click="deleteRecord()" id="btnDelete">Delete</button>
            <button type="button" class="btn btn-primary" data-bind="myModal" data-
dismiss="modal" ng-click="updateRecord()" id="btnUpdate">Update</button>
            <button type="button" class="btn btn-default" data-
dismiss="modal">Close</button>
        </div>
    </div>
    </div>
    </div>

</body>
</html>
```

## HTML Code Screenshot:



```
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    <script src="Scripts/angular.min.js"></script>
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                    <td>{{ x.Model }}</td>
                    <td>{{ x.Service }}</td>
                    <td><a href="#" data-toggle="modal" data-target="#myModal" ng-click="displayForUpdate(x)">Edit</a>|<a href="#" data-toggle="modal" data-target="#myModal" ng-click=
                </tr>
            </tbody>
```
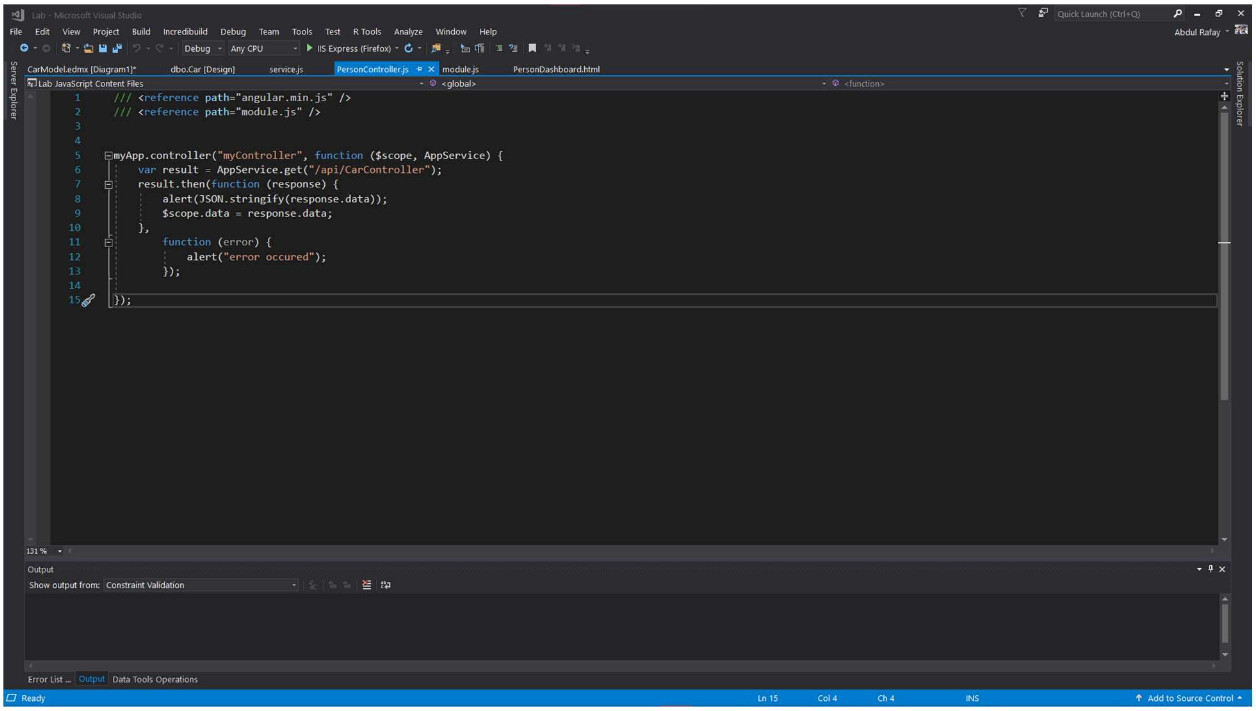

## Webpage Controller:

```
/// <reference path="angular.min.js" />
/// <reference path="module.js" />


myApp.controller("myController", function ($scope, AppService) {
    var result = AppService.get("/api/CarController");
    result.then(function (response) {
        alert(JSON.stringify(response.data));
        $scope.data = response.data;
    },
        function (error) {
            alert("error occured");
        });

});
```

# Web Page Controller Screenshot:



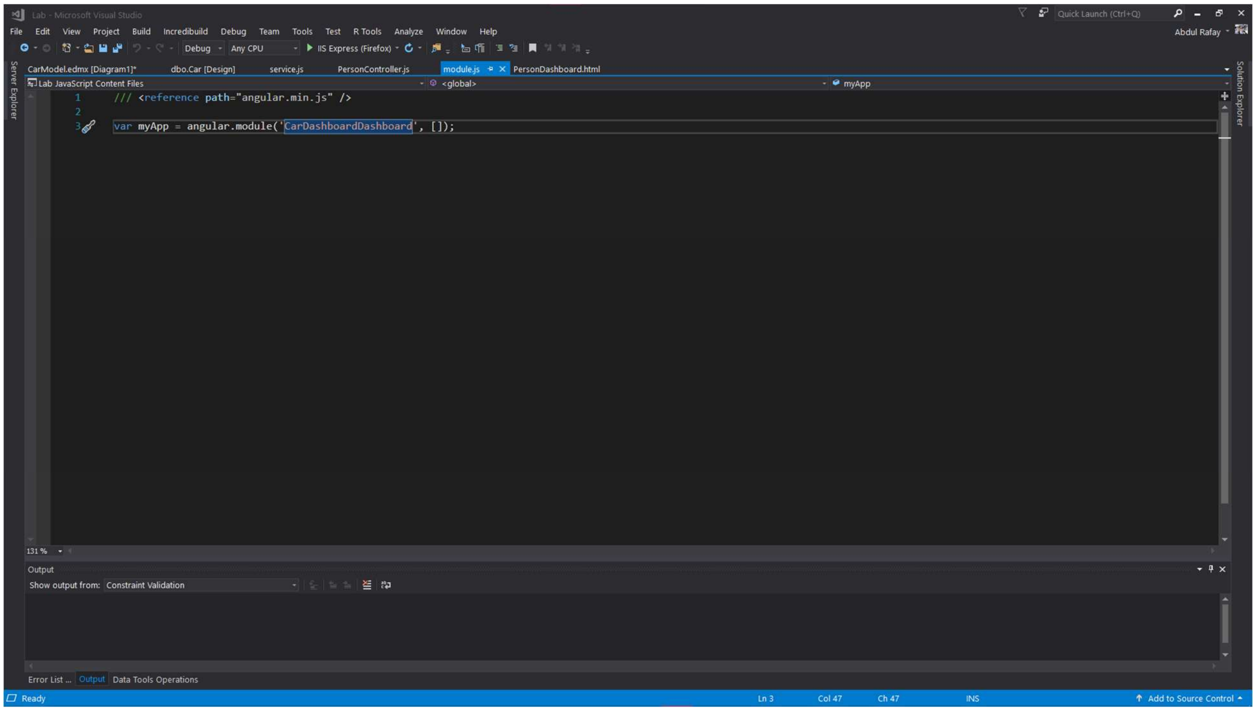
Lab - Microsoft Visual Studio
File Edit View Project Build Incredibuild Debug Team Tools Test R Tools Analyze Window Help
Debug Any CPU IIS Express (Firefox)
CarModel.edmx [Diagram1]* dbo.Car [Design] service.js PersonController.js module.js PersonDashboard.html
Lab JavaScript Content Files <global> <function>
Output
Show output from: Constraint Validation
Error List ... Output Data Tools Operations
Ready Ln 15 Col 4 Ch 4 INS Add to Source Control

```javascript
/// <reference path="angular.min.js" />
/// <reference path="module.js" />


myApp.controller("myController", function ($scope, AppService) {
    var result = AppService.get("/api/CarController");
    result.then(function (response) {
        alert(JSON.stringify(response.data));
        $scope.data = response.data;
    },
        function (error) {
            alert("error occured");
        });

});
```

# Module.Js File:

```javascript
/// <reference path="angular.min.js" />

var myApp = angular.module('CarDashboardDashboard', []);
```

# Module.JS Screenshot:

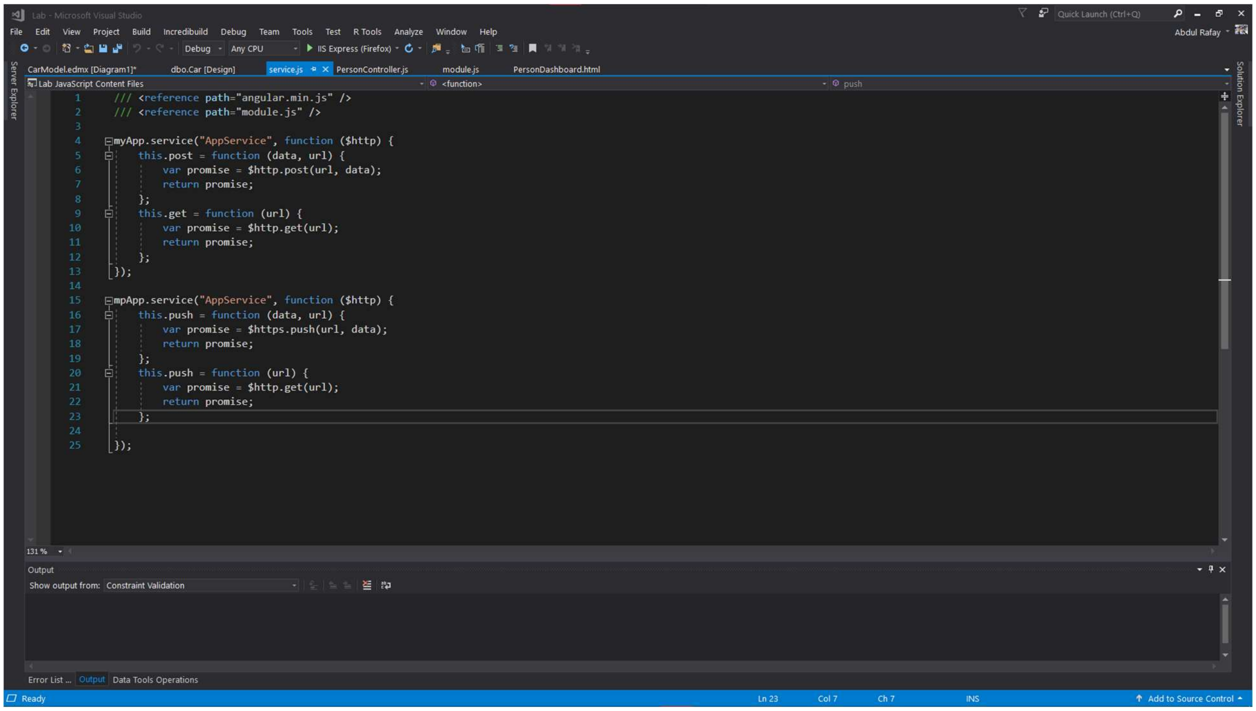


```
/// <reference path="angular.min.js" />

var myApp = angular.module('CarDashboardDashboard', []);
```

# Service.Js File:

```
/// <reference path="angular.min.js" />
/// <reference path="module.js" />

myApp.service("AppService", function ($http) {
    this.post = function (data, url) {
        var promise = $http.post(url, data);
        return promise;
    };
    this.get = function (url) {
        var promise = $http.get(url);
        return promise;
    };
});

mpApp.service("AppService", function ($http) {
    this.push = function (data, url) {
        var promise = $https.push(url, data);
        return promise;
    };
    this.push = function (url) {
        var promise = $http.get(url);
        return promise;
    };

});
```

## Service.Js Screenshots:



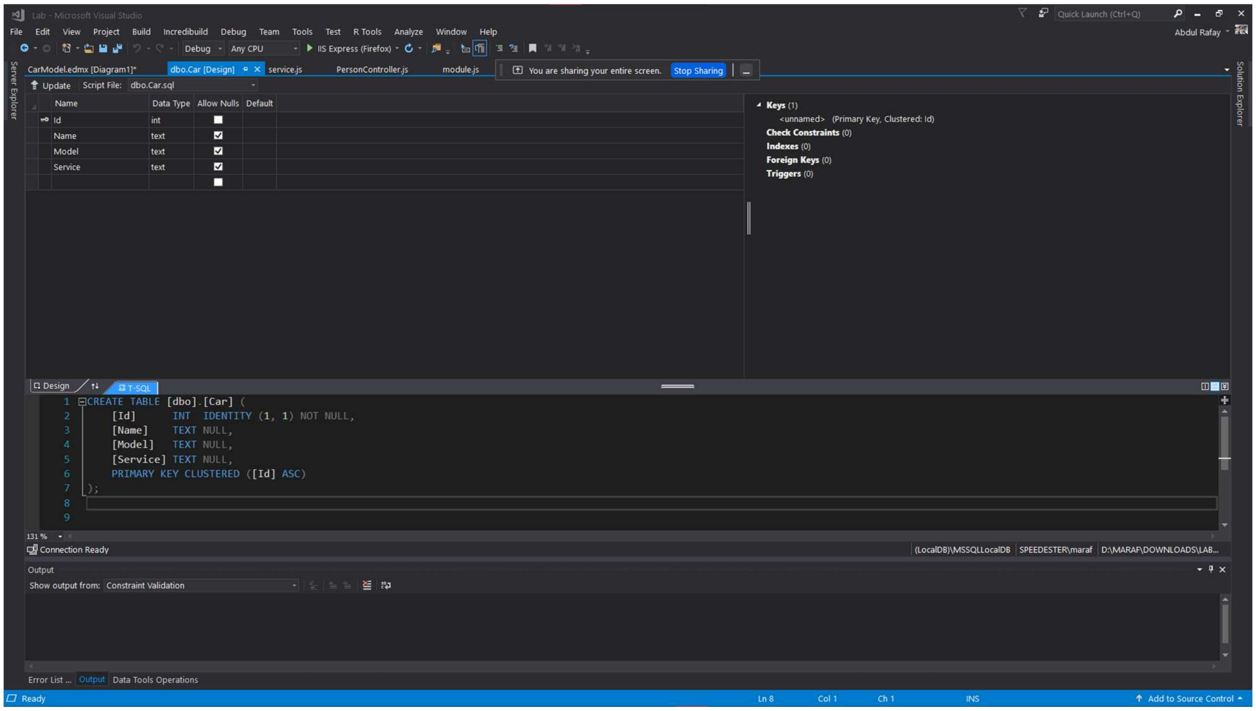
```
/// <reference path="angular.min.js" />
/// <reference path="module.js" />

myApp.service("AppService", function ($http) {
    this.post = function (data, url) {
        var promise = $http.post(url, data);
        return promise;
    };
    this.get = function (url) {
        var promise = $http.get(url);
        return promise;
    };
});

mpApp.service("AppService", function ($http) {
    this.push = function (data, url) {
        var promise = $https.push(url, data);
        return promise;
    };
    this.push = function (url) {
        var promise = $http.get(url);
        return promise;
    };

});
```

# Database:

## Table:

```
CREATE TABLE [dbo].[Car] (
    [Id]      INT  IDENTITY (1, 1) NOT NULL,
    [Name]    TEXT NULL,
    [Model]   TEXT NULL,
    [Service] TEXT NULL,
    PRIMARY KEY CLUSTERED ([Id] ASC)
);
```

# Screenshot of the Table:



Script File: dbo.Car.sql

| Name | Data Type | Allow Nulls | Default |
|---|---|---|---|
| Id | int | □ | |
| Name | text | ☑ | |
| Model | text | ☑ | |
| Service | text | ☑ | |
| | | □ | |

Keys (1)
<unnamed> (Primary Key, Clustered: Id)
Check Constraints (0)
Indexes (0)
Foreign Keys (0)
Triggers (0)

```
CREATE TABLE [dbo].[Car] (
    [Id]      INT  IDENTITY (1, 1) NOT NULL,
    [Name]    TEXT NULL,
    [Model]   TEXT NULL,
    [Service] TEXT NULL,
    PRIMARY KEY CLUSTERED ([Id] ASC)
);
```

Connection Ready

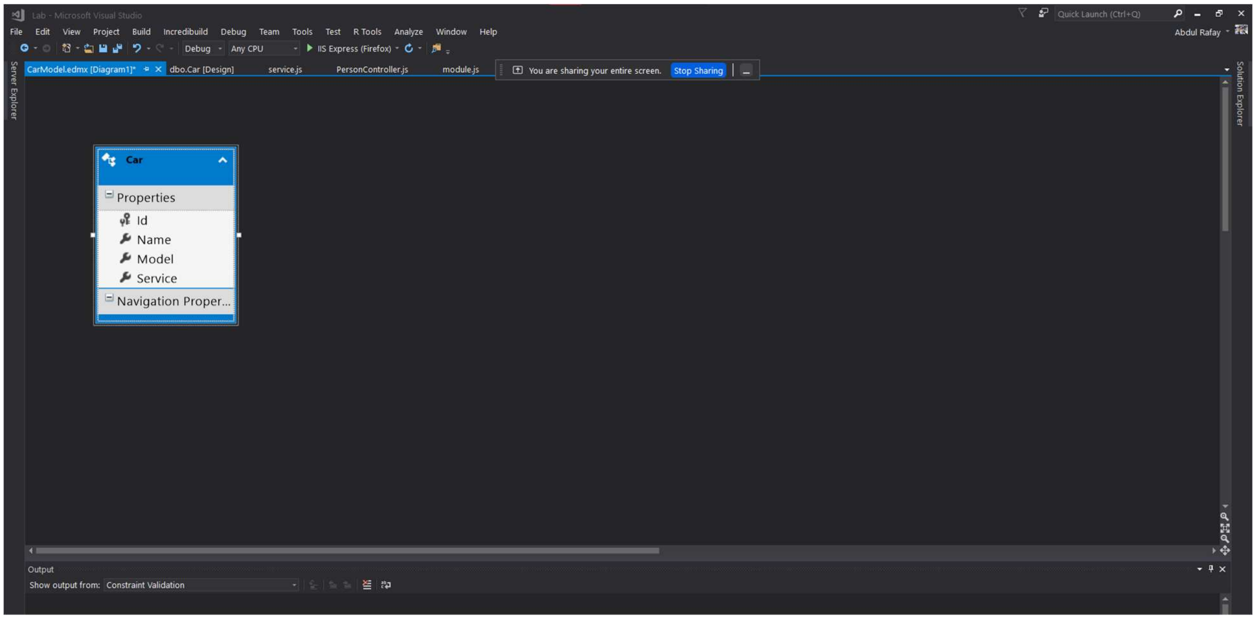
(LocalDB)\MSSQLLocalDB SPEEDESTER\maraf D:\MARAF\DOWNLOADS\LAB...

Output

Show output from: Constraint Validation

Ready

## ER Model:

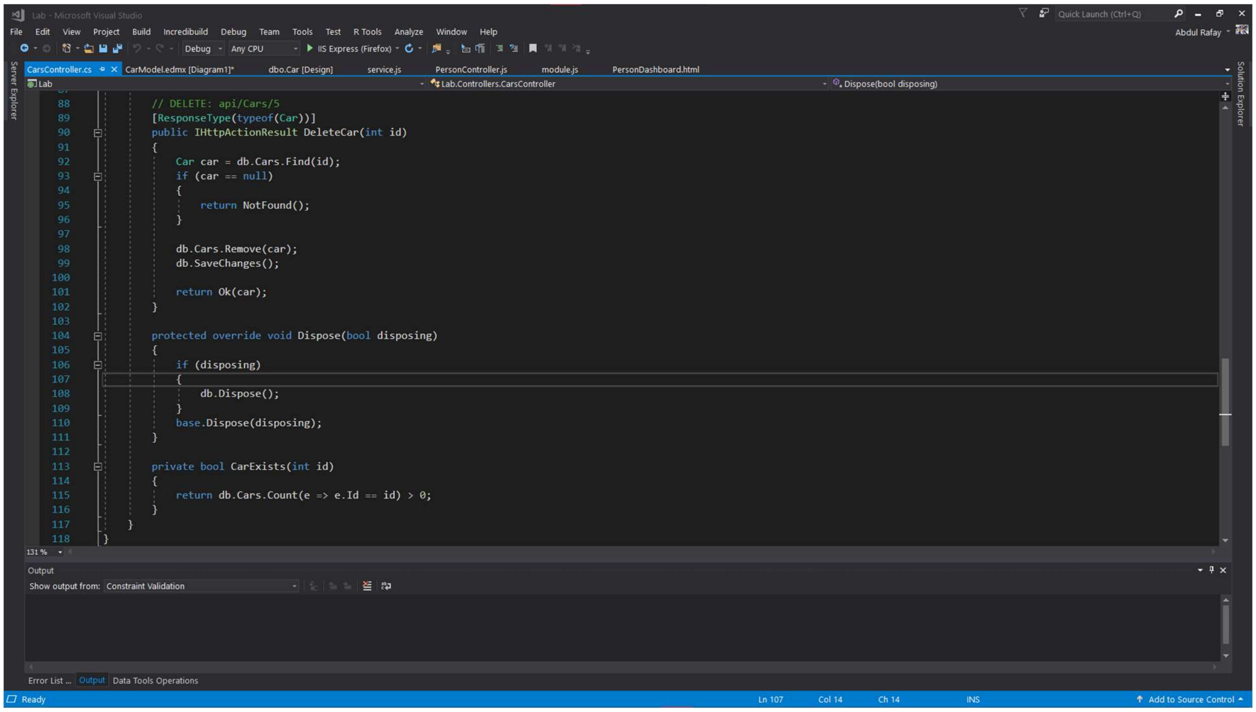

Lab - Microsoft Visual Studio
File Edit View Project Build Incredibuild Debug Team Tools Test R Tools Analyze Window Help
Debug Any CPU IIS Express (Firefox)
Quick Launch (Ctrl+Q)
Abdul Rafay
CarModel.edmx [Diagram1]* dbo.Car [Design] service.js PersonController.js module.js
You are sharing your entire screen. Stop Sharing
Server Explorer
Solution Explorer
Car
Properties
Id
Name
Model
Service
Navigation Proper...
Output
Show output from: Constraint Validation

## Car Table Controller:

### Code:

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.Entity;
using System.Data.Entity.Infrastructure;
using System.Linq;
using System.Net;
using System.Net.Http;
using System.Web.Http;
using System.Web.Http.Description;
using Lab.Models;

namespace Lab.Controllers
{
    public class CarsController : ApiController
    {
        private PersonDBEntities1 db = new PersonDBEntities1();

        // GET: api/Cars
        public IQueryable<Car> GetCars()
        {
            return db.Cars;
        }

        // GET: api/Cars/5
        [ResponseType(typeof(Car))]
        public IHttpActionResult GetCar(int id)
        {
            Car car = db.Cars.Find(id);
            if (car == null)
            {
                return NotFound();
            }

            return Ok(car);
        }

        // PUT: api/Cars/5
        [ResponseType(typeof(void))]
        public IHttpActionResult PutCar(int id, Car car)
        {
            if (!ModelState.IsValid)
            {
                return BadRequest(ModelState);
            }

            if (id != car.Id)
            {
                return BadRequest();
            }

            db.Entry(car).State = EntityState.Modified;

            try
            {
                db.SaveChanges();
            }
            catch (DbUpdateConcurrencyException)
            {
                if (!CarExists(id))
                {
                    return NotFound();
                }
                else
                {
                    throw;
                }
            }

            return StatusCode(HttpStatusCode.NoContent);
        }

        // POST: api/Cars
        [ResponseType(typeof(Car))]
        public IHttpActionResult PostCar(Car car)
        {
            if (!ModelState.IsValid)
            {
                return BadRequest(ModelState);
            }

            db.Cars.Add(car);
            db.SaveChanges();

            return CreatedAtRoute("DefaultApi", new { id = car.Id }, car);
        }

        // DELETE: api/Cars/5
        [ResponseType(typeof(Car))]
        public IHttpActionResult DeleteCar(int id)
        {
            Car car = db.Cars.Find(id);
            if (car == null)
            {
                return NotFound();
            }

            db.Cars.Remove(car);
            db.SaveChanges();

            return Ok(car);
        }

        protected override void Dispose(bool disposing)
        {
            if (disposing)
            {
                db.Dispose();
            }
            base.Dispose(disposing);
        }

        private bool CarExists(int id)
        {
            return db.Cars.Count(e => e.Id == id) > 0;
        }
    }
}
```

## Screenshot of Car table controller:



```
        // DELETE: api/Cars/5
        [ResponseType(typeof(Car))]
        public IHttpActionResult DeleteCar(int id)
        {
            Car car = db.Cars.Find(id);
            if (car == null)
            {
                return NotFound();
            }

            db.Cars.Remove(car);
            db.SaveChanges();

            return Ok(car);
        }

        protected override void Dispose(bool disposing)
        {
            if (disposing)
            {
                db.Dispose();
            }
            base.Dispose(disposing);
        }

        private bool CarExists(int id)
        {
            return db.Cars.Count(e => e.Id == id) > 0;
        }
    }
}
```