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CRUD with SPA, ASP.NET Web API and Angular.js



mdshohelrana, 26 Oct 2014 CPOL

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CRUD with SPA, ASP.NET Web API and Angular.js



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Introduction

In this article, I am going to demonstrate a simple process of CRUD in AngularJS with lot of pictorial representations. A picture is worth more than a thousand words, that for causes I believe in an article with proper screenshots. Here I will describe how you will create CRUD in angularjs. I am going to show some successful step to below:

Background

In visual studio web application, use the Client Server architecture. Here is the two process or two application that will be communicating with each other to exchange some information. From the two processes one is acts as a client process and another process acts as a server.

In traditional web applications, the client (browser) which typically makes a request for page to the server to initiates the communication. Then the server processes the request and sends the HTML of the page to the client (browser).

In Single-Page Applications (SPAs) at first the entire page is loaded in the client by the initial request, after that the subsequent action has to update by Ajax request and no need to reload the entire page. The SPA reduces the time by to respond to user actions and result is more fluid experience.

To develop the architecture of a SPA is very hard that are not similar to traditional web applications. However, the most familiar technologies like JavaScript frameworks like AngularJS, [ASP.NET Web API](#), and new styling features of CSS3 make it really easy to design and build SPAs.

In this article, I will show you how to create SPA and CRUD by using ASP.NET Web API, AngularJS.

Overview

Objectives

In this article, you will learn how to:

- create angular.js CRUD
- Create a responsive UI using Twitter-Bootstrap

Prerequisites

- Windows 7 or later with at least 4GB RAM
- [Visual Studio Express 2013 for Web](#) or greater
- SQL Server 2012, SQL Server Express, or LocalDB
- ASP.NET MVC 5
- [AngularJS in 60-ish Minutes eBook](#) or [Video](#)

Setup

In order to create this application, please follow the above prerequisites.

Exercises

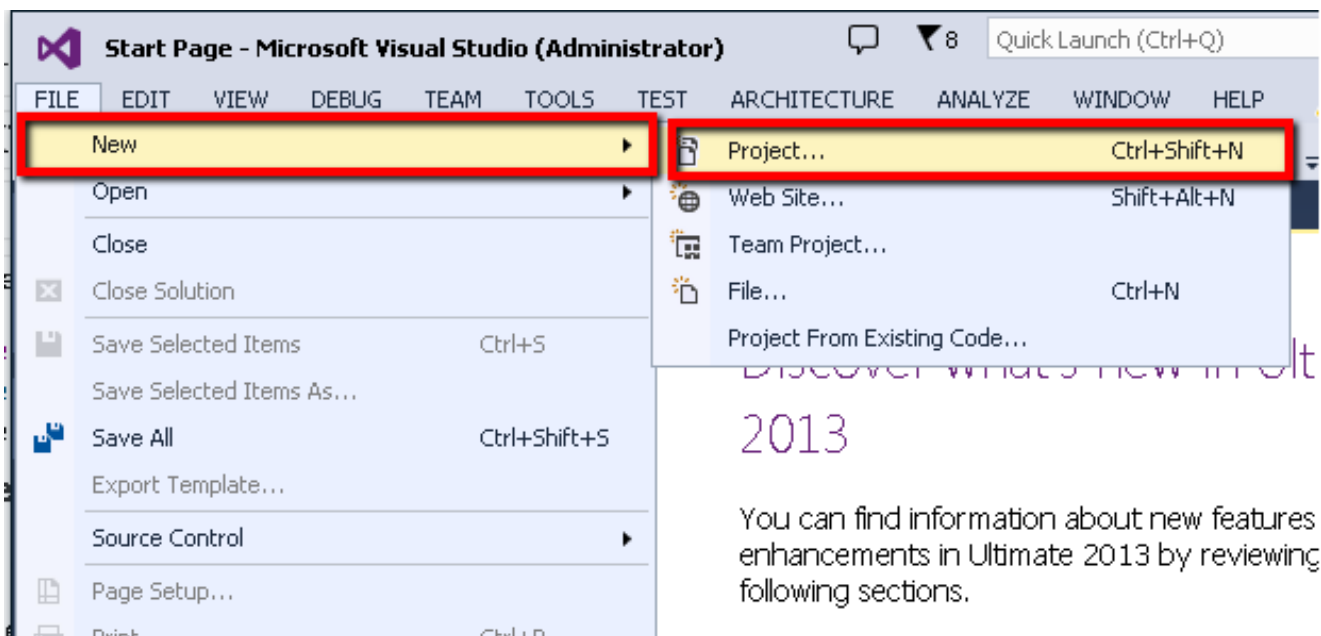
This article includes the following exercises:

1. Creating a Web API
2. Creating a SPA Interface

Exercise 1: Creating a Web API

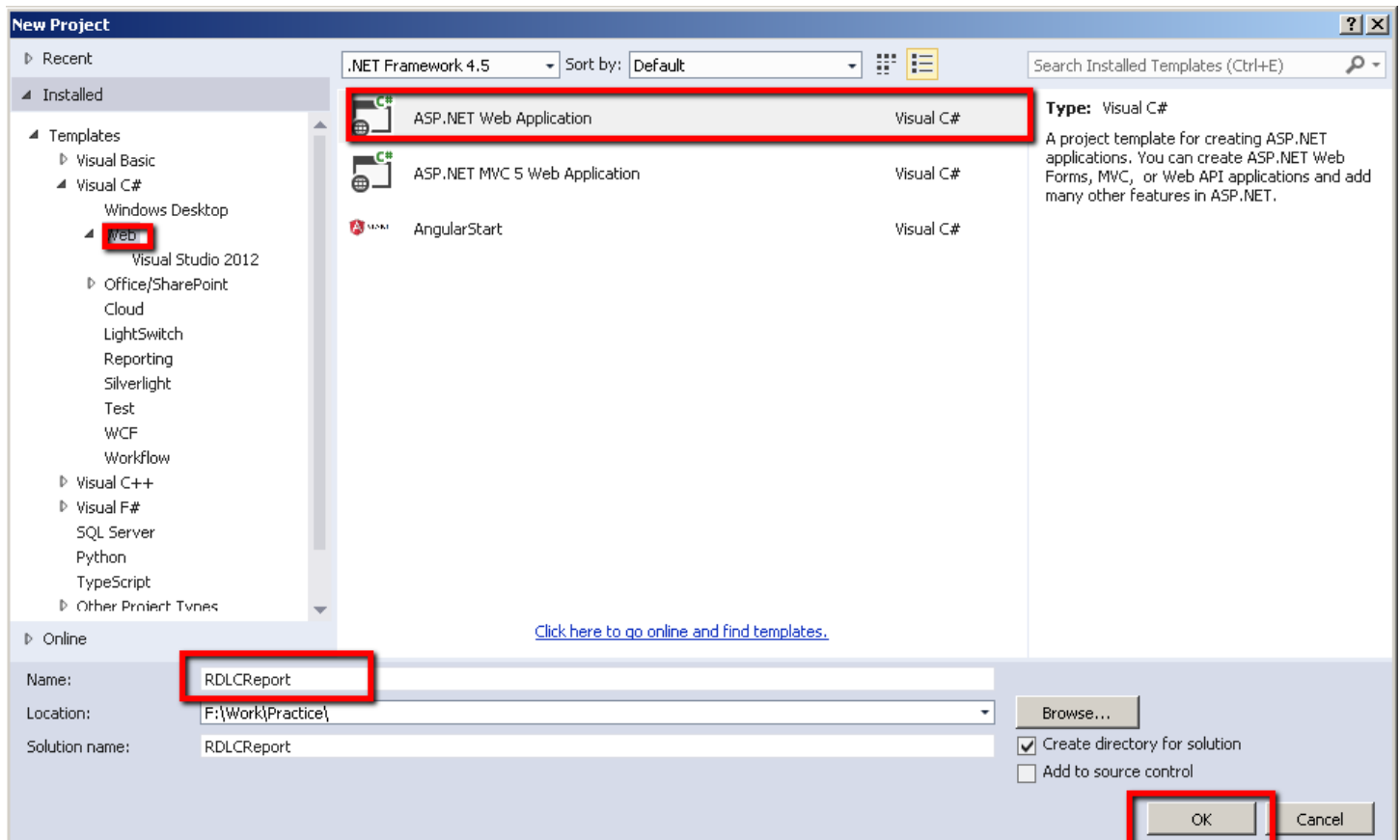
To set up a web api application

1. Open Visual **Studio Express 2013** for Web and select File | New > Project... to start a new solution.



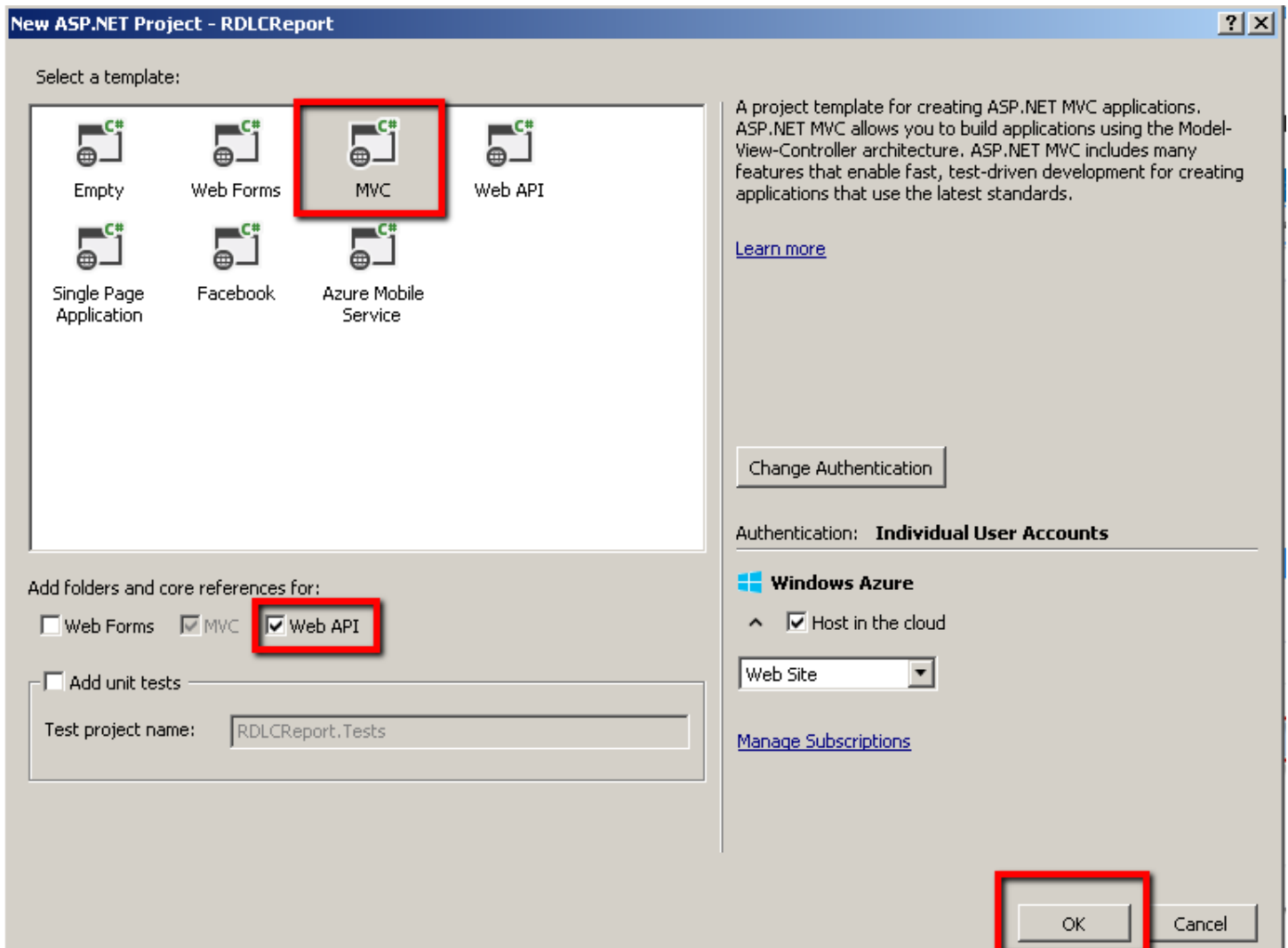
Creating a New Project

2. Create a new Web API project in Visual Studio 2013 by selecting Project new dialog box appears and select **ASP.NET Web Application** under the Visual C# | Web tab. Make sure **.NET Framework 4.5** is selected, name it **RDLReport**, choose a Location and click **OK**.



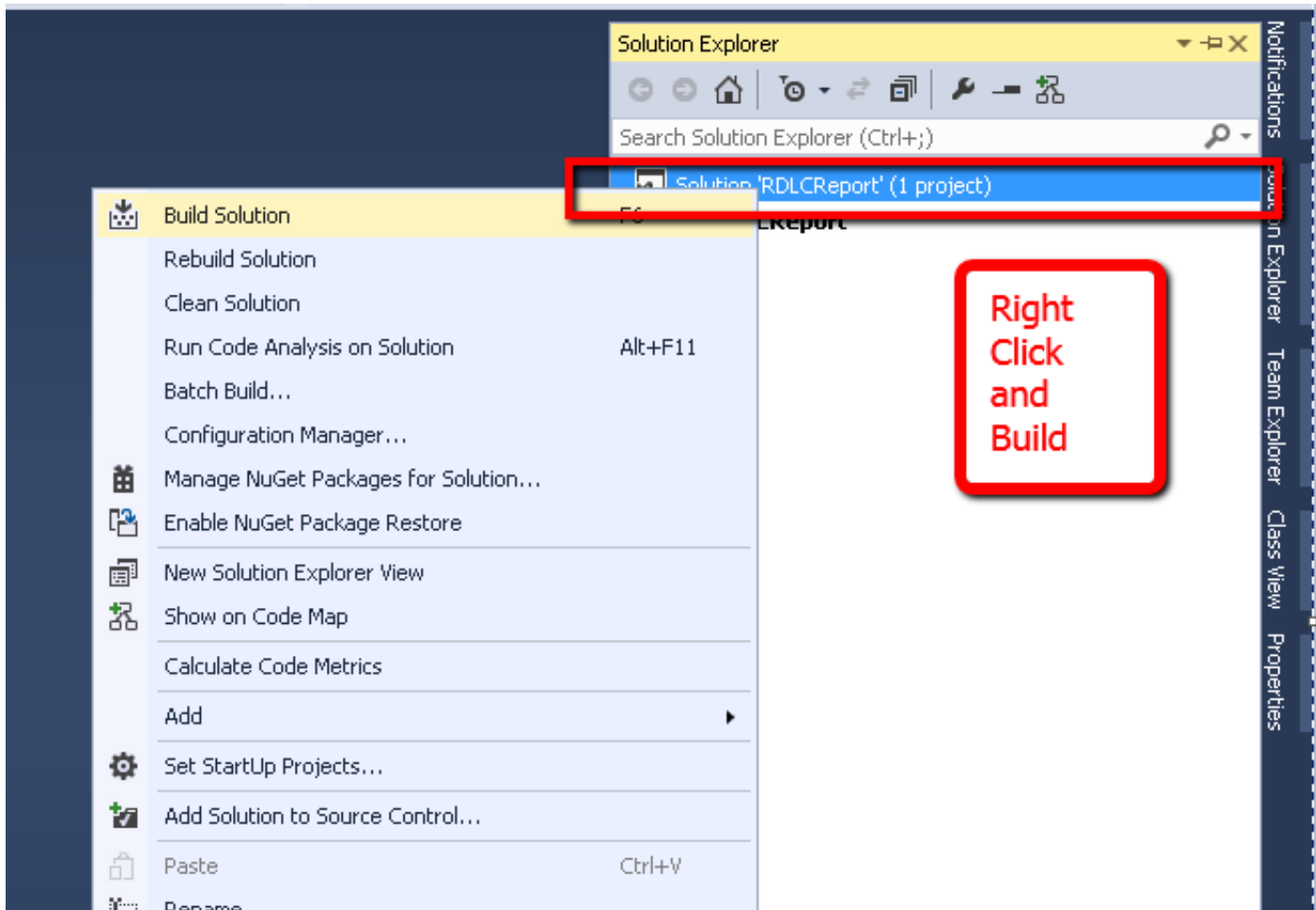
Creating a new ASP.NET Web Application project

3. In the **New ASP.NET Project** dialog box, select the **MVC** template and select the **Web API** option. Also Click **OK** to continue.



Creating a new project with the MVC template, including Web API components

4. In **Solution Explorer**, right-click the **Solution** of the **RDLReport** project and build.



Build a new solution

5. Now create database '**Inventory**' and table '**Customer**' and set primary key **Id**, Here is the Script below:

[Hide](#) [Copy Code](#)

```
USE [Inventory]
GO

DROP TABLE [dbo].[Customer]
GO

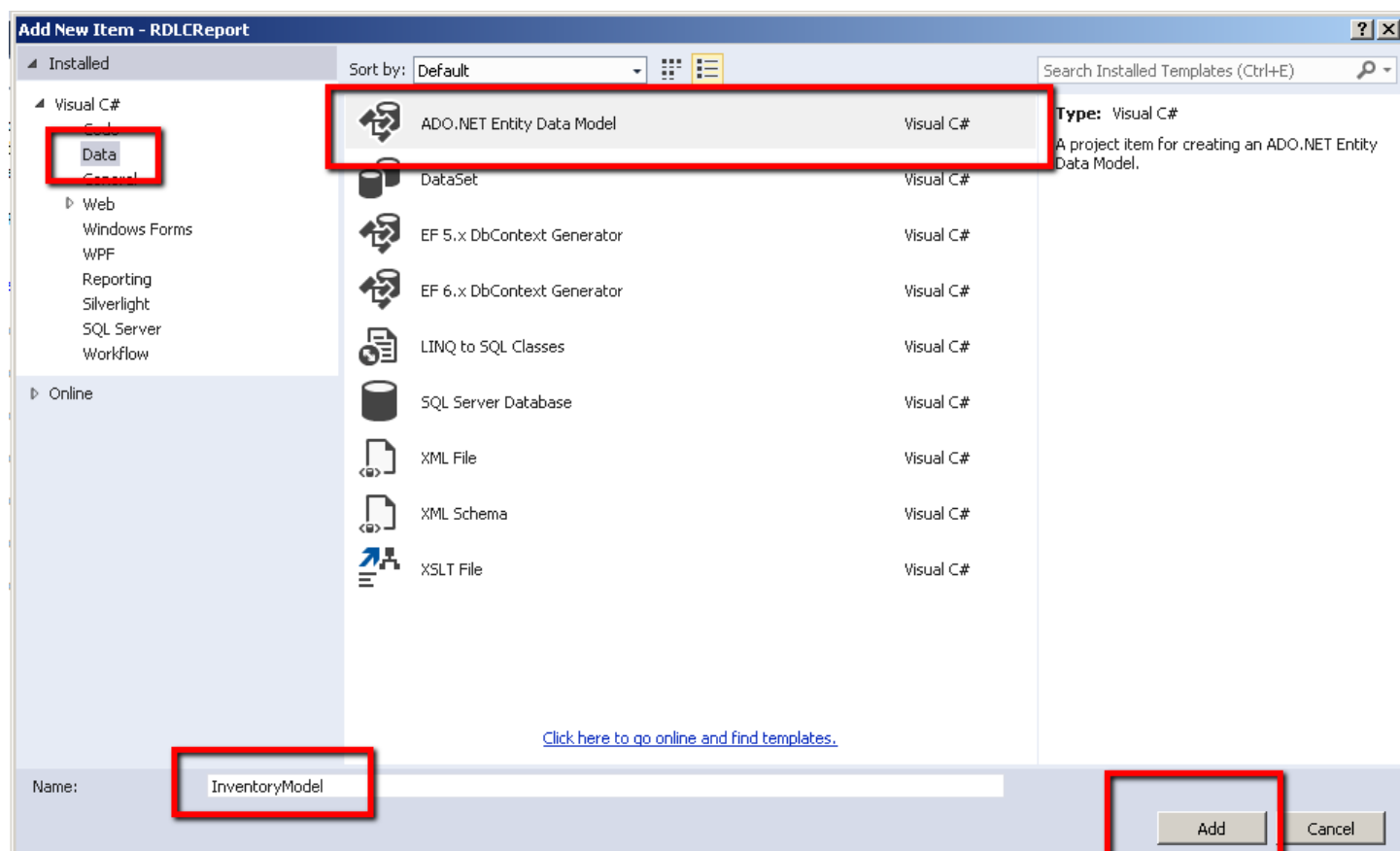
SET ANSI_NULLS ON
GO

SET QUOTED_IDENTIFIER ON
GO

CREATE TABLE [dbo].[Customer](
    [Id] [int] NOT NULL,
    [Name] [nvarchar](50) NULL,
    [Address] [nvarchar](50) NULL,
    [City] [nvarchar](50) NULL,
    [Country] [nvarchar](50) NULL,
    [DateOfBirth] [datetime] NULL,
    [Age] [int] NULL,
    CONSTRAINT [PK_Customer] PRIMARY KEY CLUSTERED
    (
        [Id] ASC
    )WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS = ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
```

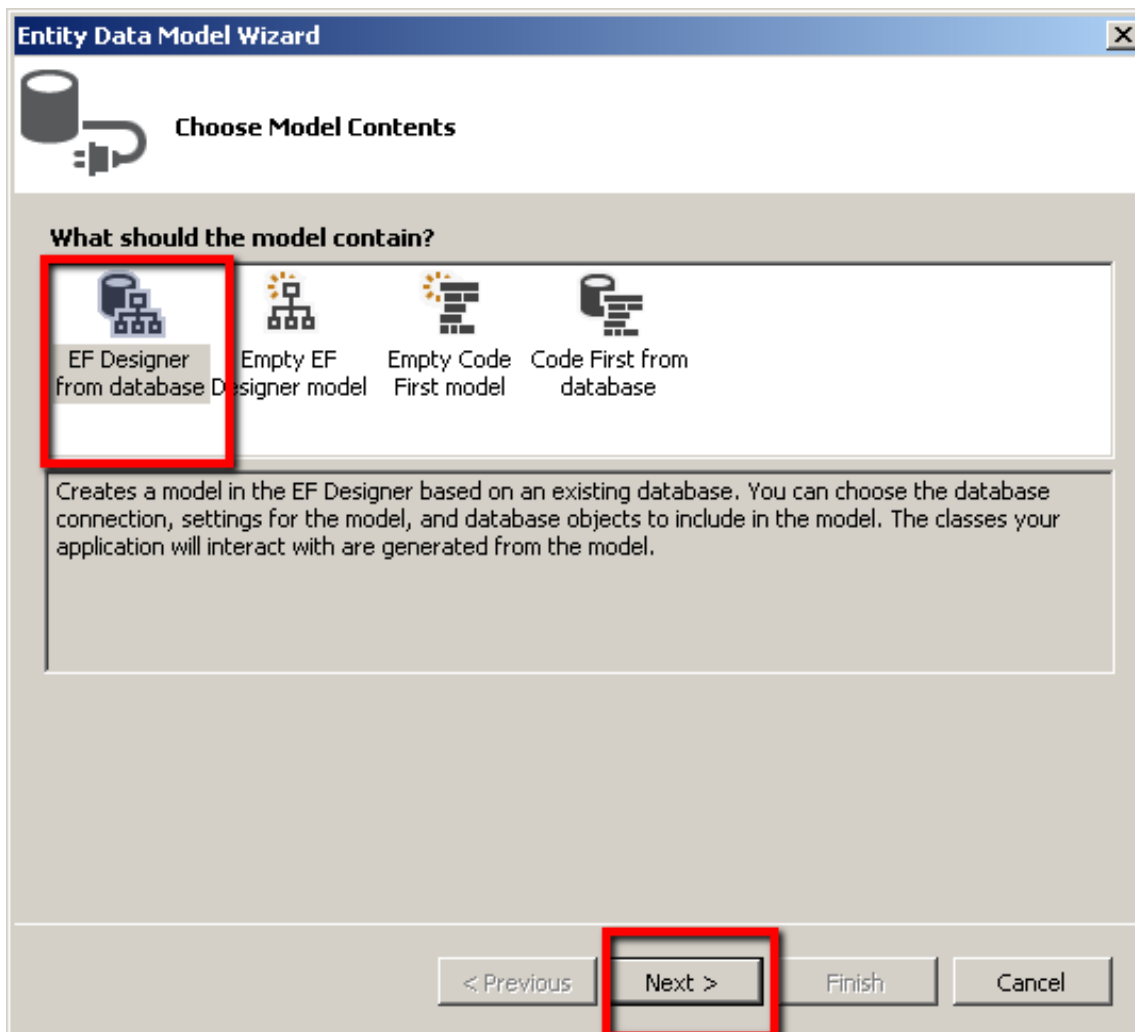
GO

6. After creating database and table, now you have to create **Entity Frame Work Model Object** by this dialog box.



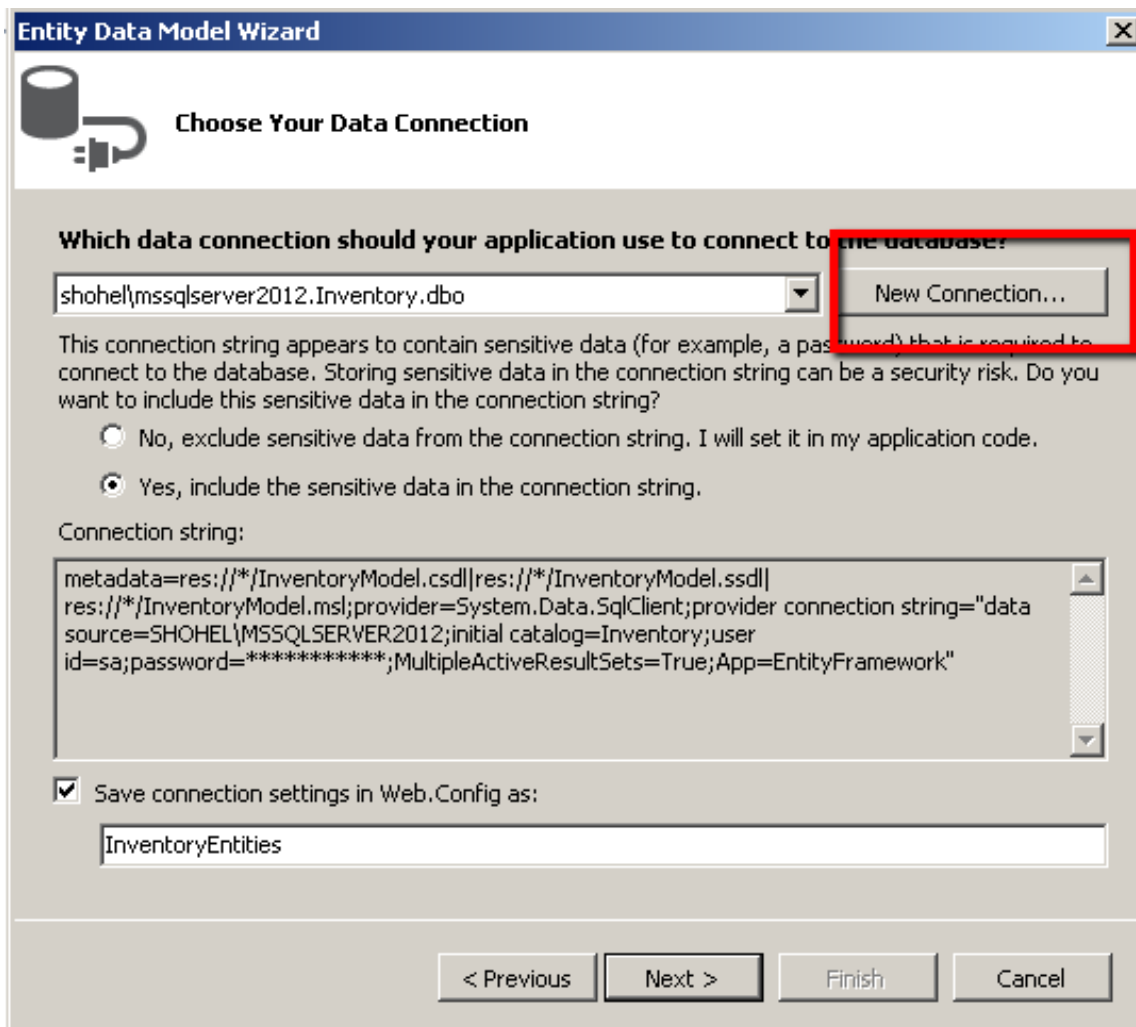
Creating Entity Framework Data Model Object

7. In the Entity Data Model Wizard, Select **EF Designer From Database**, and also press next button



Choose Entity Framework Model Contents

8. In the **Entity Data Model Wizard** Choose Your Data Connection bu clicking New Connection... button



The image shows the 'Entity Data Model Wizard' dialog box, specifically the 'Choose Your Data Connection' step. The title bar reads 'Entity Data Model Wizard'. Below the title bar is a database icon and the text 'Choose Your Data Connection'. The main question is 'Which data connection should your application use to connect to the database?'. A dropdown menu shows 'shohel\mssqlserver2012.Inventory.dbo'. To the right of the dropdown is a 'New Connection...' button, which is highlighted with a red rectangle. Below this, a warning message states: 'This connection string appears to contain sensitive data (for example, a password) that is required to connect to the database. Storing sensitive data in the connection string can be a security risk. Do you want to include this sensitive data in the connection string?'. There are two radio buttons: 'No, exclude sensitive data from the connection string. I will set it in my application code.' and 'Yes, include the sensitive data in the connection string.' The 'Yes' option is selected. Below the radio buttons is a text area labeled 'Connection string:' containing the following text: `metadata=res://*/InventoryModel.csdl|res://*/InventoryModel.ssdl|res://*/InventoryModel.msl;provider=System.Data.SqlClient;provider connection string="data source=SHOHEL\MSSQLSERVER2012;initial catalog=Inventory;user id=sa;password=*****;MultipleActiveResultSets=True;App=EntityFramework"`. At the bottom, there is a checkbox labeled 'Save connection settings in Web.Config as:' which is checked. Below the checkbox is a text box containing 'InventoryEntities'. At the very bottom are four buttons: '< Previous', 'Next >', 'Finish', and 'Cancel'.

Choose Connection String From Connection Properties Dialog Box

9. In the **Connection Properties Window Dialog box**, write server name, sql authentication and select database name, then finish

Connection Properties

Enter information to connect to the selected data source or click "Change" to choose a different data source and/or provider.

Data source:
Microsoft SQL Server (SqlClient) Change...

Server name:
SHOHEL\MSSQLSERVER2012 Refresh

Log on to the server

☐ Use Windows Authentication

☒ Use SQL Server Authentication

User name: sa

Password: [masked] Save my password

Connect to a database

☒ Select or enter a database name:
Inventory

☐ Attach a database file:
Browse...

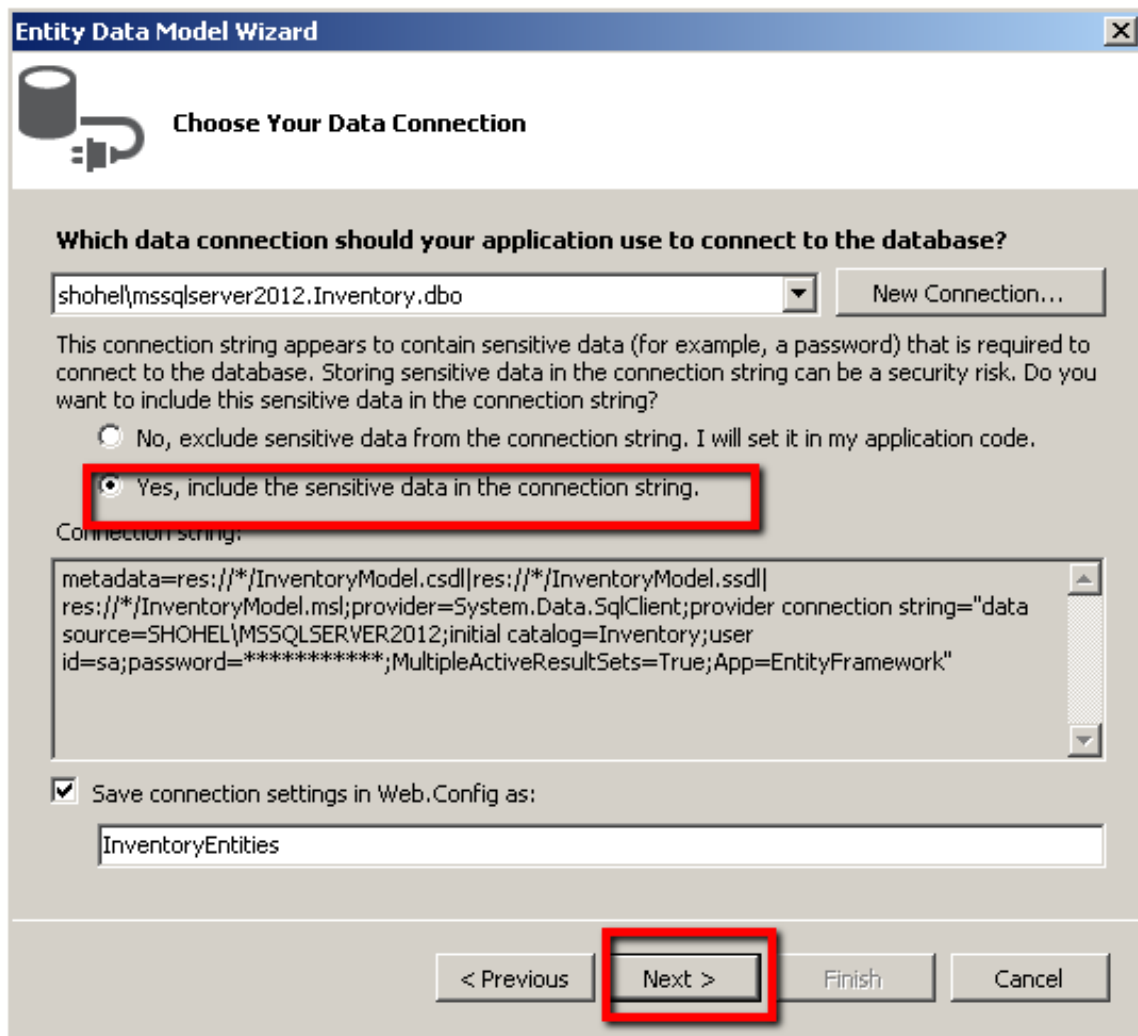
Logical name:
[empty]

Advanced...

Test Connection OK Cancel

Choose Connection String From this window

10. In the **Entity Data Model Wizard**, Select yes, Include the sensitive data in the connection string, then press next button



The image shows the 'Entity Data Model Wizard' window, specifically the 'Choose Your Data Connection' step. The window has a title bar with the text 'Entity Data Model Wizard' and a close button. Below the title bar is a header area with a database icon and the text 'Choose Your Data Connection'. The main content area asks the question 'Which data connection should your application use to connect to the database?'. There is a dropdown menu showing 'shohel\mssqlserver2012.Inventory.dbo' and a 'New Connection...' button. Below this, a warning message states: 'This connection string appears to contain sensitive data (for example, a password) that is required to connect to the database. Storing sensitive data in the connection string can be a security risk. Do you want to include this sensitive data in the connection string?'. There are two radio buttons: 'No, exclude sensitive data from the connection string. I will set it in my application code.' and 'Yes, include the sensitive data in the connection string.'. The 'Yes' option is selected and highlighted with a red rectangle. Below the radio buttons is a text box labeled 'Connection string:' containing the following text: 'metadata=res://*/InventoryModel.csdl|res://*/InventoryModel.ssdl|res://*/InventoryModel.msl;provider=System.Data.SqlClient;provider connection string="data source=SHOHEL\MSSQLSERVER2012;initial catalog=Inventory;user id=sa;password=*****;MultipleActiveResultSets=True;App=EntityFramework"'. Below the text box is a checkbox labeled 'Save connection settings in Web.Config as:' which is checked. Below the checkbox is a text box containing 'InventoryEntities'. At the bottom of the window are four buttons: '< Previous', 'Next >', 'Finish', and 'Cancel'. The 'Next >' button is highlighted with a red rectangle.

Entity Data Model Wizard

Choose Your Data Connection

Which data connection should your application use to connect to the database?

shohel\mssqlserver2012.Inventory.dbo New Connection...

This connection string appears to contain sensitive data (for example, a password) that is required to connect to the database. Storing sensitive data in the connection string can be a security risk. Do you want to include this sensitive data in the connection string?

☐ No, exclude sensitive data from the connection string. I will set it in my application code.

☒ Yes, include the sensitive data in the connection string.

Connection string:

metadata=res://*/InventoryModel.csdl|res://*/InventoryModel.ssdl|res://*/InventoryModel.msl;provider=System.Data.SqlClient;provider connection string="data source=SHOHEL\MSSQLSERVER2012;initial catalog=Inventory;user id=sa;password=*****;MultipleActiveResultSets=True;App=EntityFramework"

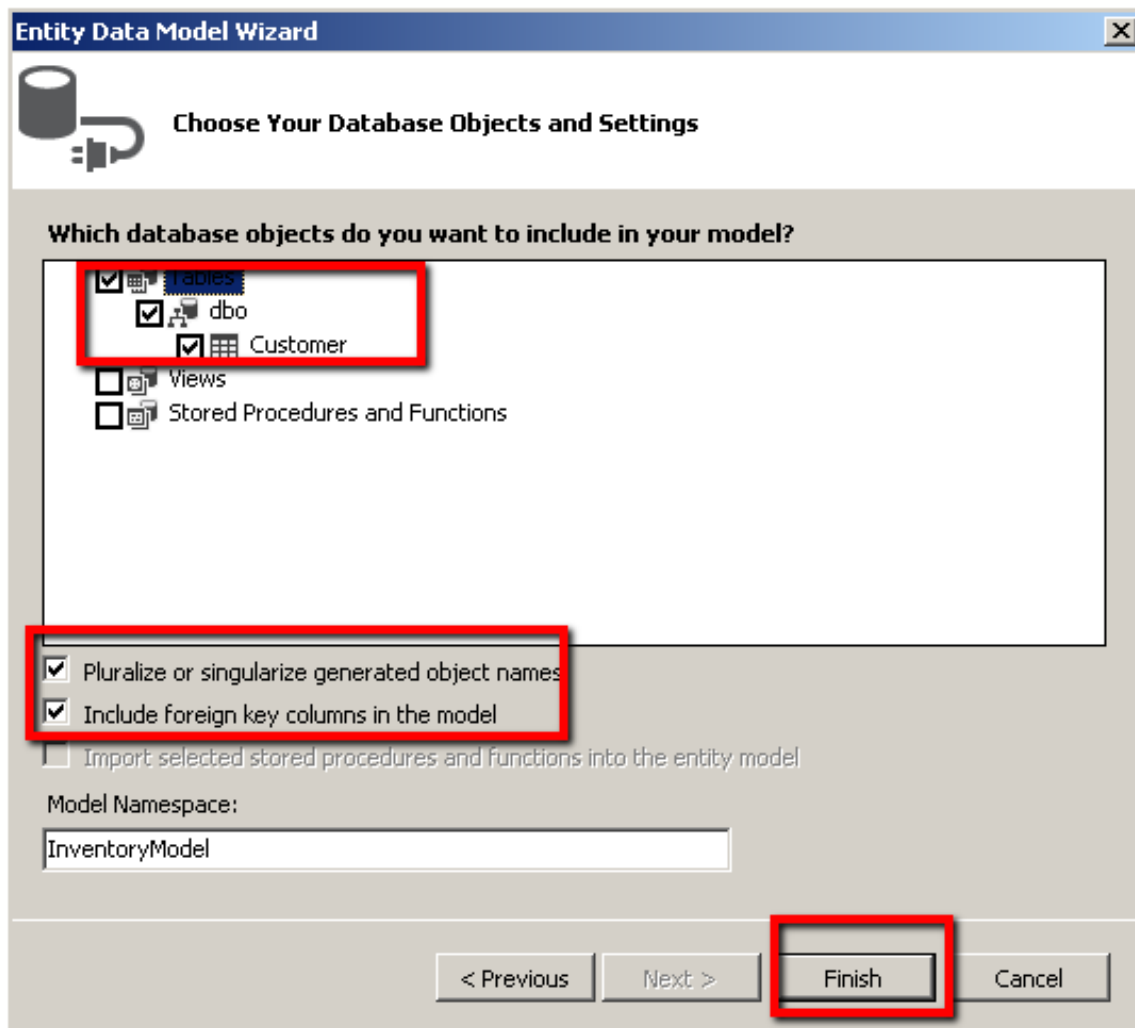
☒ Save connection settings in Web.Config as:

InventoryEntities

< Previous Next > Finish Cancel

Choose sensitive data in the connection string.

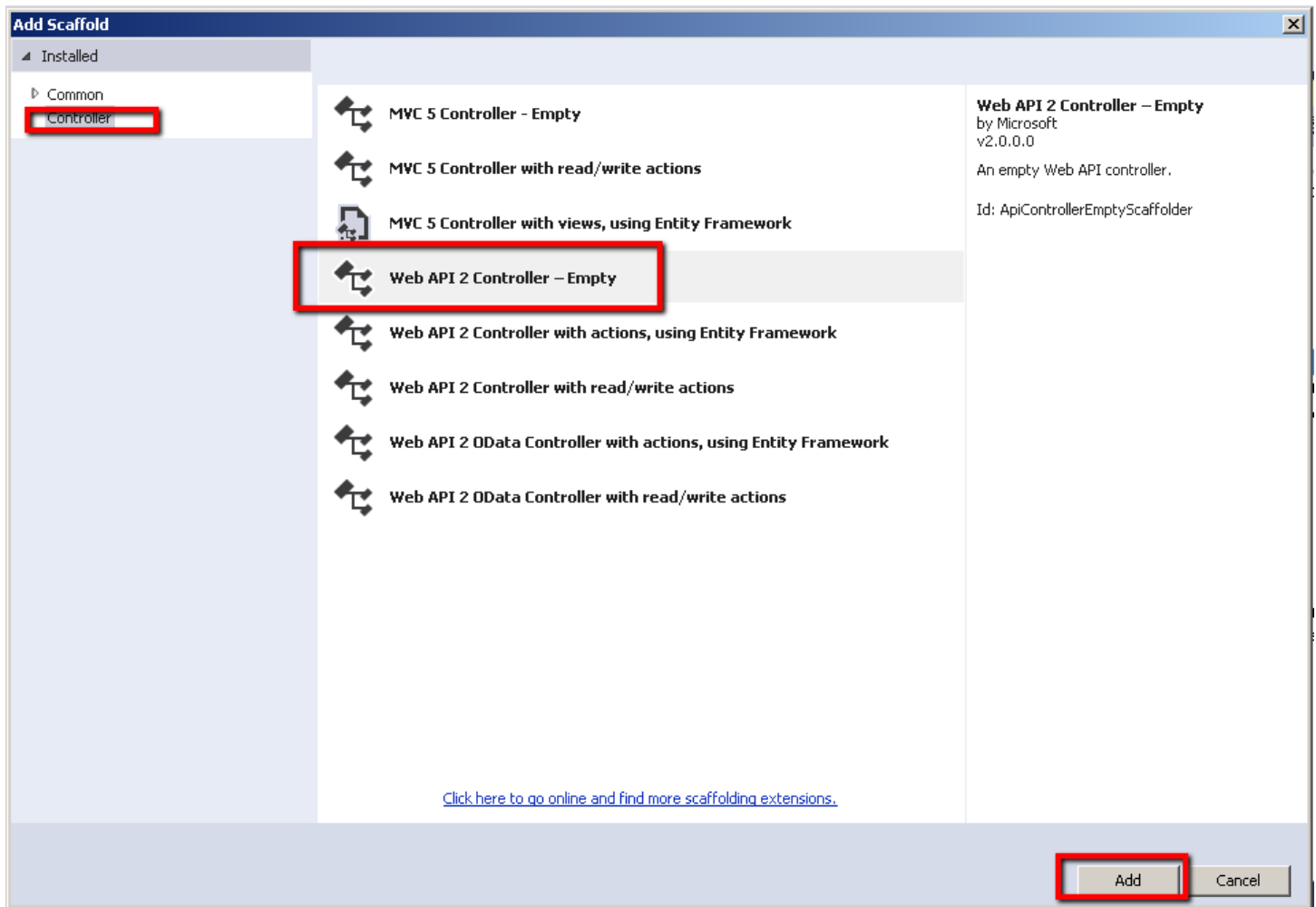
11. In the **Entity Data Model Wizard**, select table and press finish button



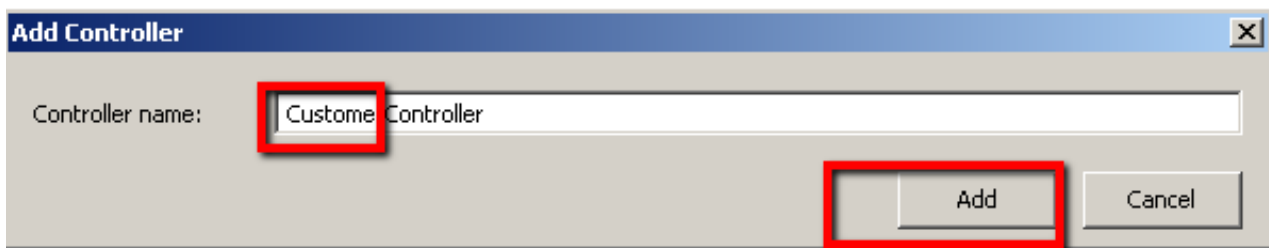
Creating Customer table model object

12. **Build solution** after completing above process

13. In **Solution Explorer**, right-click the **Controllers** folder of the **RDLCReport** project and select **Add | New Controller Item....** and Now create CustomerController by this way



choose api controller



Choose Api Controller Name

14. The **CustomerController.cs** file is then added to the **Controllers** folder of the **RDLCReport** project, containing an empty **CustomerController** class. Add the following assembly before **RDLCReport.Controllers** namespace

Hide Copy Code

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

15. In the **CustomerController.cs** file, Add the following code into the **CustomerController** class.

Hide Copy Code

```
InventoryEntities db = new InventoryEntities();
```

[Hide](#) [Copy Code](#)

```
//get all customer
[HttpGet]
public IEnumerable<Customer> Get()
{
    return db.Customers.AsEnumerable();
}

//get customer by id
public Customer Get(int id)
{
    Customer customer = db.Customers.Find(id);
    if (customer == null)
    {
        throw new HttpResponseException(Request.CreateResponse(HttpStatusCode.NotFound));
    }
    return customer;
}
```

[Hide](#) [Copy Code](#)

```
//insert customer
public HttpResponseMessage Post(Customer customer)
{
    if (ModelState.IsValid)
    {
        db.Customers.Add(customer);
        db.SaveChanges();
        HttpResponseMessage response = Request.CreateResponse(HttpStatusCode.Created,
customer);
        response.Headers.Location = new Uri(Url.Link("DefaultApi", new { id = customer.Id
}));
        return response;
    }
    else
    {
        return Request.CreateErrorResponse(HttpStatusCode.BadRequest, ModelState);
    }
}
```

[Hide](#) [Copy Code](#)

```
//update customer
public HttpResponseMessage Put(int id, Customer customer)
{
    if (!ModelState.IsValid)
    {
        return Request.CreateErrorResponse(HttpStatusCode.BadRequest, ModelState);
    }
    if (id != customer.Id)
    {
        return Request.CreateResponse(HttpStatusCode.BadRequest);
    }
    db.Entry(customer).State = EntityState.Modified;
    try
    {
        db.SaveChanges();
    }
    catch (DbUpdateConcurrencyException ex)
    {
        return Request.CreateErrorResponse(HttpStatusCode.NotFound, ex);
    }
}
```

```
    }  
    return Request.CreateResponse(HttpStatusCode.OK);  
}
```

[Hide](#) [Copy Code](#)

```
//delete customer by id  
public HttpResponseMessage Delete(int id)  
{  
    Customer customer = db.Customers.Find(id);  
    if (customer == null)  
    {  
        return Request.CreateResponse(HttpStatusCode.NotFound);  
    }  
    db.Customers.Remove(customer);  
    try  
    {  
        db.SaveChanges();  
    }  
    catch (DbUpdateConcurrencyException ex)  
    {  
        return Request.CreateErrorResponse(HttpStatusCode.NotFound, ex);  
    }  
    return Request.CreateResponse(HttpStatusCode.OK, customer);  
}
```

[Hide](#) [Copy Code](#)

```
//prevent memory leak  
protected override void Dispose(bool disposing)  
{  
    db.Dispose();  
    base.Dispose(disposing);  
}
```

Exercise 2: Creating the SPA Interface

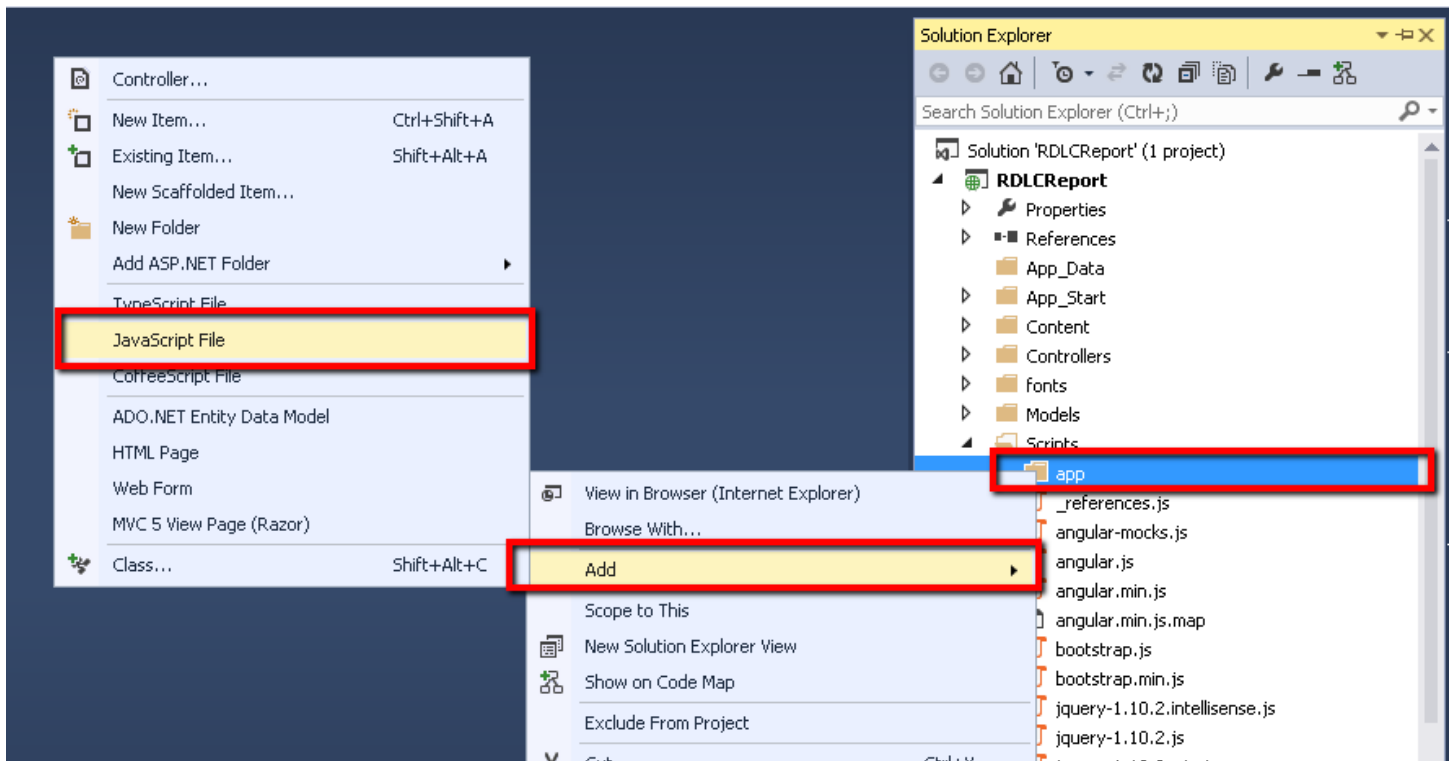
To do:

1. Open the **Package Manager Console** from **Tools > Library Package Manager**. Type the following command to install the **AngularJS.Core** NuGet package.

[Hide](#) [Copy Code](#)

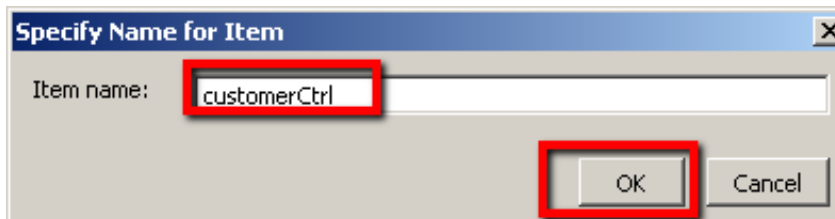
```
Install-Package AngularJS.Core
```

2. In **Solution Explorer**, right-click the **Scripts** folder of the **RDLReport** project and select **Add | New Folder**. Name the folder **app** and press **Enter**.
3. Right-click the **app** folder you just created and select **Add | JavaScript File**.



Creating a new JavaScript file

4. In the **Specify Name for Item** dialog box, type *quiz-controller* in the **Item name** text box and click **OK**.



Naming the new JavaScript file

5. In the **customerCtrl.js** file, add the following code to declare and initialize the AngularJS.

Hide Shrink ▲ Copy Code

```
//create angularjs controller
var app = angular.module('app', []); //set and get the angular module
app.controller('customerController', ['$scope', '$http', customerController]);

//angularjs controller method
function customerController($scope, $http) {

    //declare variable for main ajax load and entry or edit mode
    $scope.loading = true;
    $scope.addMode = false;

    //get all customer information
    $http.get('/api/Customers/').success(function (data) {
        $scope.customers = data;
        $scope.loading = false;
    })
    .error(function () {
        $scope.error = "An Error has occurred while loading posts!";
        $scope.loading = false;
    });
};
```

```

//by pressing toggleEdit button ng-click in html, this method will be hit
$scope.toggleEdit = function () {
    this.customer.editMode = !this.customer.editMode;
};

//by pressing toggleAdd button ng-click in html, this method will be hit
$scope.toggleAdd = function () {
    $scope.addMode = !$scope.addMode;
};

//Inser Customer
$scope.add = function () {
    $scope.loading = true;
    $http.post('/api/Customer/', this.newcustomer).success(function (data) {
        alert("Added Successfully!!");
        $scope.addMode = false;
        $scope.customers.push(data);
        $scope.loading = false;
    }).error(function (data) {
        $scope.error = "An Error has occured while Adding Customer! " + data;
        $scope.loading = false;
    });
};

//Edit Customer
$scope.save = function () {
    alert("Edit");
    $scope.loading = true;
    var frien = this.customer;
    alert(frien);
    $http.put('/api/Customer/' + frien.Id, frien).success(function (data) {
        alert("Saved Successfully!!");
        frien.editMode = false;
        $scope.loading = false;
    }).error(function (data) {
        $scope.error = "An Error has occured while Saving customer! " + data;
        $scope.loading = false;
    });
};

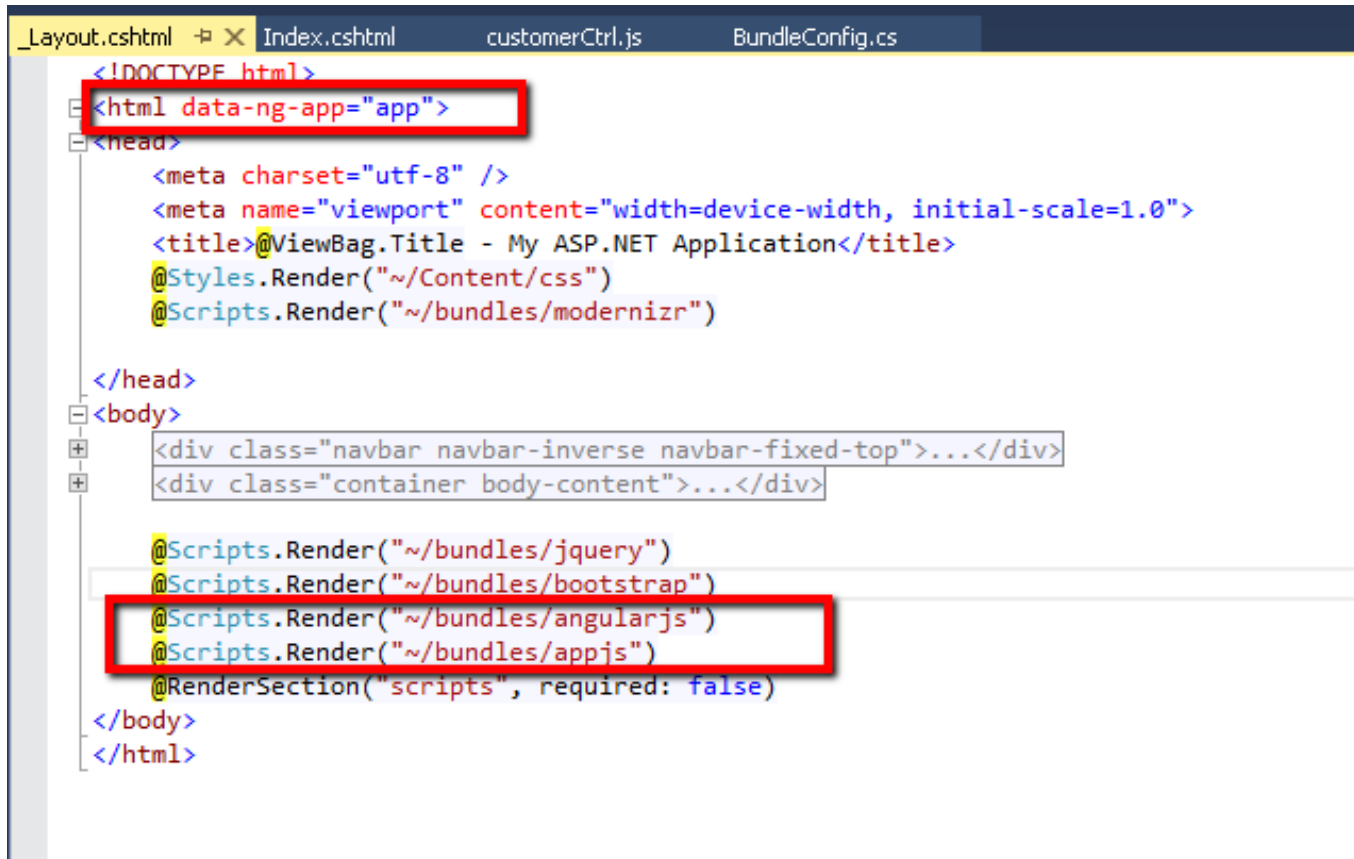
//Delete Customer
$scope.deletecustomer = function () {
    $scope.loading = true;
    var Id = this.customer.Id;
    $http.delete('/api/Customer/' + Id).success(function (data) {
        alert("Deleted Successfully!!");
        $.each($scope.customers, function (i) {
            if ($scope.customers[i].Id === Id) {
                $scope.customers.splice(i, 1);
                return false;
            }
        });
        $scope.loading = false;
    }).error(function (data) {
        $scope.error = "An Error has occured while Saving Customer! " + data;
        $scope.loading = false;
    });
};
}

```

6. In the **customerCtrl.js**, All of the above code, you can put into this javascript function.


```
(function () {  
    'use strict';  
  
    /*Write above code here*/  
  
})();
```

7. In _Layout.cshtml page which path is **Views> Shared> _Layout.cshtml**, add the following line



```
<!DOCTYPE html>  
<html data-ng-app="app">  
<head>  
    <meta charset="utf-8" />  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <title>@ViewBag.Title - My ASP.NET Application</title>  
    @Styles.Render("~/Content/css")  
    @Scripts.Render("~/bundles/modernizr")  
</head>  
<body>  
    <div class="navbar navbar-inverse navbar-fixed-top">...</div>  
    <div class="container body-content">...</div>  
  
    @Scripts.Render("~/bundles/jquery")  
    @Scripts.Render("~/bundles/bootstrap")  
    @Scripts.Render("~/bundles/angularjs")  
    @Scripts.Render("~/bundles/appjs")  
    @RenderSection("scripts", required: false)  
</body>  
</html>
```

Creating angular bootstrapping

8. In **BundleConfig.cs** file, add two line, which path is **App_Start> BundleConfig.cs**

```

public class BundleConfig
{
    // For more information on bundling, visit http://go.microsoft.com/fwlink/?LinkId=301862
    // reference
    public static void RegisterBundles(BundleCollection bundles)
    {
        bundles.Add(new ScriptBundle("~/bundles/jquery").Include(
            "~/Scripts/jquery-{version}.js"));

        bundles.Add(new ScriptBundle("~/bundles/jqueryval").Include(
            "~/Scripts/jquery.validate*"));

        // Use the development version of Modernizr to develop with and learn from. Then, when you're
        // ready for production, use the build tool at http://modernizr.com to pick only the tests you need.
        bundles.Add(new ScriptBundle("~/bundles/modernizr").Include(
            "~/Scripts/modernizr-*"));

        bundles.Add(new ScriptBundle("~/bundles/bootstrap").Include(
            "~/Scripts/bootstrap.js",
            "~/Scripts/respond.js"));

        bundles.Add(new StyleBundle("~/Content/css").Include(
            "~/Content/bootstrap.css",
            "~/Content/site.css"));

        bundles.Add(new ScriptBundle("~/bundles/angularjs").Include(
            "~/Scripts/angular.min.js"));

        bundles.Add(new ScriptBundle("~/bundles/appjs").Include(
            "~/Scripts/app/customerCtrl.js"));
    }
}

```

Add java script file

9. In Views> Home> Index.cshtml file add following code

Hide Shrink ▲ Copy Code

```

<div data-ng-controller="customerController" class="container">
    <div class="row">
        <div class="col-md-12">
            <strong class="error">{{ error }}</strong>
            <p data-ng-hide="addMode"><a data-ng-click="toggleAdd()" href="javascript:;" class="btn btn-primary">Add New</a></p>
            <form name="addCustomer" data-ng-show="addMode" style="width:600px;margin:0px auto;">
                <div class="form-group">
                    <label for="cid" class="col-sm-2 control-label">ID:</label>
                    <div class="col-sm-10">
                        <input type="text" class="form-control" id="cid" placeholder="please enter id" data-ng-model="newcustomer.Id" required />
                    </div>
                </div>
                <div class="form-group">
                    <label for="cname" class="col-sm-2 control-label">Name:</label>
                    <div class="col-sm-10">
                        <input type="text" class="form-control" id="cname" placeholder="please enter your name" data-ng-model="newcustomer.Name" required />
                    </div>
                </div>
                <div class="form-group">
                    <label for="address" class="col-sm-2 control-label">Address:</label>
                    <div class="col-sm-10">
                        <input type="text" class="form-control" id="address" placeholder="please enter your address" data-ng-model="newcustomer.Address" required />
                    </div>
                </div>
                <div class="form-group">

```

```

        <label for="city" class="col-sm-2 control-label">City:</label>
        <div class="col-sm-10">
            <input type="text" class="form-control" id="city" placeholder="please enter
your city" data-ng-model="newcustomer.City" required />
        </div>
    </div>
    <div class="form-group">
        <label for="country" class="col-sm-2 control-label">Country:</label>
        <div class="col-sm-10">
            <input type="text" class="form-control" id="country" placeholder="please
enter your country" data-ng-model="newcustomer.Country" required />
        </div>
    </div>
    <div class="form-group">
        <label for="age" class="col-sm-2 control-label">Age:</label>
        <div class="col-sm-10">
            <input type="text" class="form-control" id="age" placeholder="please enter
your age" data-ng-model="newcustomer.Age" required />
        </div>
    </div>
    <br />
    <div class="form-group">
        <div class="col-sm-offset-2 col-sm-10">
            <input type="submit" value="Add" data-ng-click="add()" data-ng-
disabled="!addCustomer.$valid" class="btn btn-primary" />
            <input type="button" value="Cancel" data-ng-click="toggleAdd()" class="btn
btn-primary" />
        </div>
    </div>
    <br />
</form>
</div>
</div>
<div class="row">
    <div class="col-md-12">
        <br />
        <br />
    </div>
</div>
<div class="row">
    <div class="col-md-12">
        <div class="table-responsive">
            <table class="table table-bordered table-hover" style="width:800px">
                <tr>
                    <th>#</th>
                    <td>FirstName</td>
                    <th>LastName</th>
                    <th>Address</th>
                    <th>City</th>
                    <th>PostalCode</th>
                    <th>Country</th>
                </tr>
                <tr data-ng-repeat="customer in customers">
                    <td><strong data-ng-hide="customer.editMode">{{ customer.Id }}</strong></td>
                    <td>
                        <p data-ng-hide="customer.editMode">{{ customer.Name }}</p>
                        <input data-ng-show="customer.editMode" type="text" data-ng-
model="customer.Name" />
                    </td>
                    <td>
                        <p data-ng-hide="customer.editMode">{{ customer.Address }}</p>
                        <input data-ng-show="customer.editMode" type="text" data-ng-
model="customer.Address" />
                    </td>
                </tr>
            </table>
        </div>
    </div>
</div>

```

```

        <p data-ng-hide="customer.editMode">{{ customer.City }}</p>
        <input data-ng-show="customer.editMode" type="text" data-ng-
model="customer.City" />
        </td>
        <td>
        <p data-ng-hide="customer.editMode">{{ customer.Country }}</p>
        <input data-ng-show="customer.editMode" type="text" data-ng-
model="customer.Country" />
        </td>
        <td>
        <p data-ng-hide="customer.editMode">{{ customer.Age }}</p>
        <input data-ng-show="customer.editMode" type="text" data-ng-
model="customer.Age" />
        </td>
        <td>
        <p data-ng-hide="customer.editMode"><a data-ng-
click="toggleEdit(customer)" href="javascript:;">Edit</a> | <a data-ng-
click="deletecustomer(customer)" href="javascript:;">Delete</a></p>
        <p data-ng-show="customer.editMode"><a data-ng-click="save(customer)"
href="javascript:;">Save</a> | <a data-ng-click="toggleEdit(customer)"
href="javascript:;">Cancel</a></p>
        </td>
        </tr>
    </table>
    <hr />
</div>
</div>
</div>
<div id="mydiv" data-ng-show="loading">
    
</div>
</div>

```

10. Run and enjoy the CRUD in angularjs, the out put is:

Application name
Home
About
Contact
Register
Log in

Customers View

Add New

#	FirstName	LastName	Address	City	PostalCode	Country
1	Shohel	Rana	dfasdasdfasd	sdf	44	Edit Delete
2	eee	ee	eee	eee	555	Edit Delete
3	fsdf	sadf	asdfasd	asdf	555	Edit Delete
4	fsdf	dfa	dfasd	sdfasd	55	Edit Delete

© 2014 - My ASP.NET Application

output

Conclusion

I think this article will be very helpful for the beginners who are want to learn AngularJS, WebApi, Twitter-Bootstrap, SPA and

SQL-SERVER Data First. I am not good at English, If I mistake anything please forgive me. Thanks for having patience.

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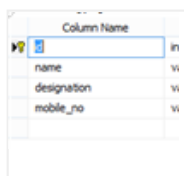


mdshohelrana

 Software Developer (Senior)
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I am expert in Asp.Net (WebForm, MVC), Html5, Javascript, jQuery, JSON, CSS3, AngularJs, KnockoutJs, Breezejs, WCF, Restful service, EF, C# .NET, XAML, XML, UML, SQL-SERVER

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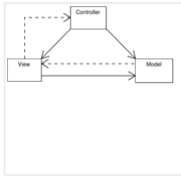
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Re: Customers vs Customer

mdshohelrana 13-Jun-15 19:23

Re: Customers vs Customer

qwerty@mailinator.com 16-Aug-15 21:06

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Re: Great Article

mdshohelrana 8-Jun-15 20:49

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mdshohelrana 13-Jun-15 22:03

CRUD with SPA, ASP.NET Web API and Angular 

latif127 3-Jun-15 18:37

Excellent! 

Zenu 25-May-15 10:44

Re: Excellent! 

mdshohelrana 26-May-15 16:24

Another Newbie Question 

Member 11676328 9-May-15 6:23

My vote of 5 

M Rayhan 3-Feb-15 20:07

Crud using AngularJS and MVC Web API 

Member 10527748 9-Jan-15 18:52

Re: Crud using AngularJS and MVC Web API 

mdshohelrana 11-Jan-15 2:08

Tried fitting to my own schema... struggling w/ edit function 

Member 10983977 7-Jan-15 8:56

Re: Tried fitting to my own schema... struggling w/ edit function 

mdshohelrana 7-Jan-15 19:37

Good one 

zala gopal 23-Dec-14 23:13

Worked the first time! 

Member 11067451 12-Nov-14 13:48

Re: Worked the first time! 

mdshohelrana 15-Nov-14 23:09

My vote of 5 

Mahsa Hassankashi 9-Nov-14 2:09

Some issues (Ajax Loader, 405 on Put Verb) 

Rinaldo J. Sassaroli 29-Oct-14 9:19

Re: Some issues (Ajax Loader, 405 on Put Verb) 

Rinaldo J. Sassaroli 29-Oct-14 9:40

Re: Some issues (Ajax Loader, 405 on Put Verb) 

mdshohelrana 29-Oct-14 16:26

Re: Some issues (Ajax Loader, 405 on Put Verb) 

mdshohelrana 29-Oct-14 16:21

newbie question 

benny856694 27-Oct-14 21:23

Re: newbie question 

mdshohelrana 27-Oct-14 22:26

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benny856694 27-Oct-14 22:28

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Humayun Kabir Mamun 26-Oct-14 19:36

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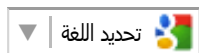
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