

Working With MVC - 02

by Amandeep S. Patti

<https://www.linkedin.com/in/aspatti>



Microsoft Visual Studio

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Ready



Microsoft Visual Studio



1



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-



X

- File Edit View Debug Team Tools Architecture Test Analyze Window Help
- New ▾
 - Project... Ctrl+Shift+N
 - Web Site... Shift+Alt+N
 - Team Project...
 - File... Ctrl+N
 - Project From Existing Code...
- Open
- Close
- Close Solution
- Save Selected Items Ctrl+S
- Save Selected Items As...
- Save All Ctrl+Shift+S
- Export Template...
- Source Control ▾
- Page Setup...
- Print... Ctrl+P
- Account Settings...
- Recent Files ▾
- Recent Projects and Solutions ▾
- Exit Alt+F4

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Solution Explorer

Team Explorer

Explorer

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Ready

Recent

.NET Framework 4.5.2

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Installed

Templates

Visual C#

Windows



Android

Cloud

Extensibility

iOS

LightSwitch

Office/SharePoint

Reporting

Silverlight

Test

Online



ASP.NET Web Application

Visual C#

Type: Visual C#

A project template for creating ASP.NET applications. You can create ASP.NET Web Forms, MVC, or Web API applications and add many other features in ASP.NET.

Application Insights

Add Application Insights to project
Optimize performance and monitor usage in your live application.

aspatti@live.com (Microsoft a... ▾)

Azure Pass ▾

Send telemetry to:

New Application Insights resource ▾

Configure settings...

Name:

WorkingWithMVC02

Location:

C:\Demos

Browse...

Solution name:

WorkingWithMVC02

 Create directory for solution Add to source control

OK

Cancel

Click here to go online and find templates.

Select a template:

ASP.NET 4.5.2 Templates

Empty



Web Forms



MVC



Web API

Single Page
ApplicationAzure API App
(Preview)Azure Mobile
Service**ASP.NET 5 Templates**

Get ASP.NET 5 RC

Add folders and core references for:

 Web Forms MVC Web API Add unit tests

Test project name: WorkingWithMVC02.Tests

A project template for creating ASP.NET MVC applications. ASP.NET MVC allows you to build applications using the Model-View-Controller architecture. ASP.NET MVC includes many features that enable fast, test-driven development for creating applications that use the latest standards.

[Learn more](#)[Change Authentication](#)Authentication: **Individual User Accounts**

Microsoft Azure

 Host in the cloud

Web App

OK

Cancel

Change Authentication



For applications that don't require any user authentication.

No Authentication

Individual User Accounts

Work And School Accounts

Windows Authentication

[Learn more](#)

OK

Cancel

Select a template:

ASP.NET 4.5.2 Templates

Empty



Web Forms



MVC



Web API

Single Page
ApplicationAzure API App
(Preview)Azure Mobile
Service**ASP.NET 5 Templates**

Get ASP.NET 5 RC

Add folders and core references for:

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Test project name: WorkingWithMVC02.Tests

A project template for creating ASP.NET MVC applications. ASP.NET MVC allows you to build applications using the Model-View-Controller architecture. ASP.NET MVC includes many features that enable fast, test-driven development for creating applications that use the latest standards.

[Learn more](#)**Change Authentication**Authentication: **No Authentication**

Microsoft Azure

 Host in the cloud

Web App

OK

Cancel

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Debug Any CPU Microsoft Edge

Your ASP.NET application URL: C:\Demos\WorkingWithMVC02\Project_Readme.html

Your ASP.NET application

Congratulations! You've created a project

This application consists of:

- CUSTOMIZE APP
 - Get started with ASP.NET MVC
 - Change the site's theme
 - Add more libraries using NuGet
 - Configure authentication
 - Customize information about the website users
 - Theming using Bootstrap
 - Get information
- DEPLOY
 - Ensure your app is ready for production
 - Microsoft Azure
 - Hosting providers
- GET HELP
 - Get help
 - Get more templates

Sample pages showing basic nav between Home, About, and Contact

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Ready

Solution Explorer

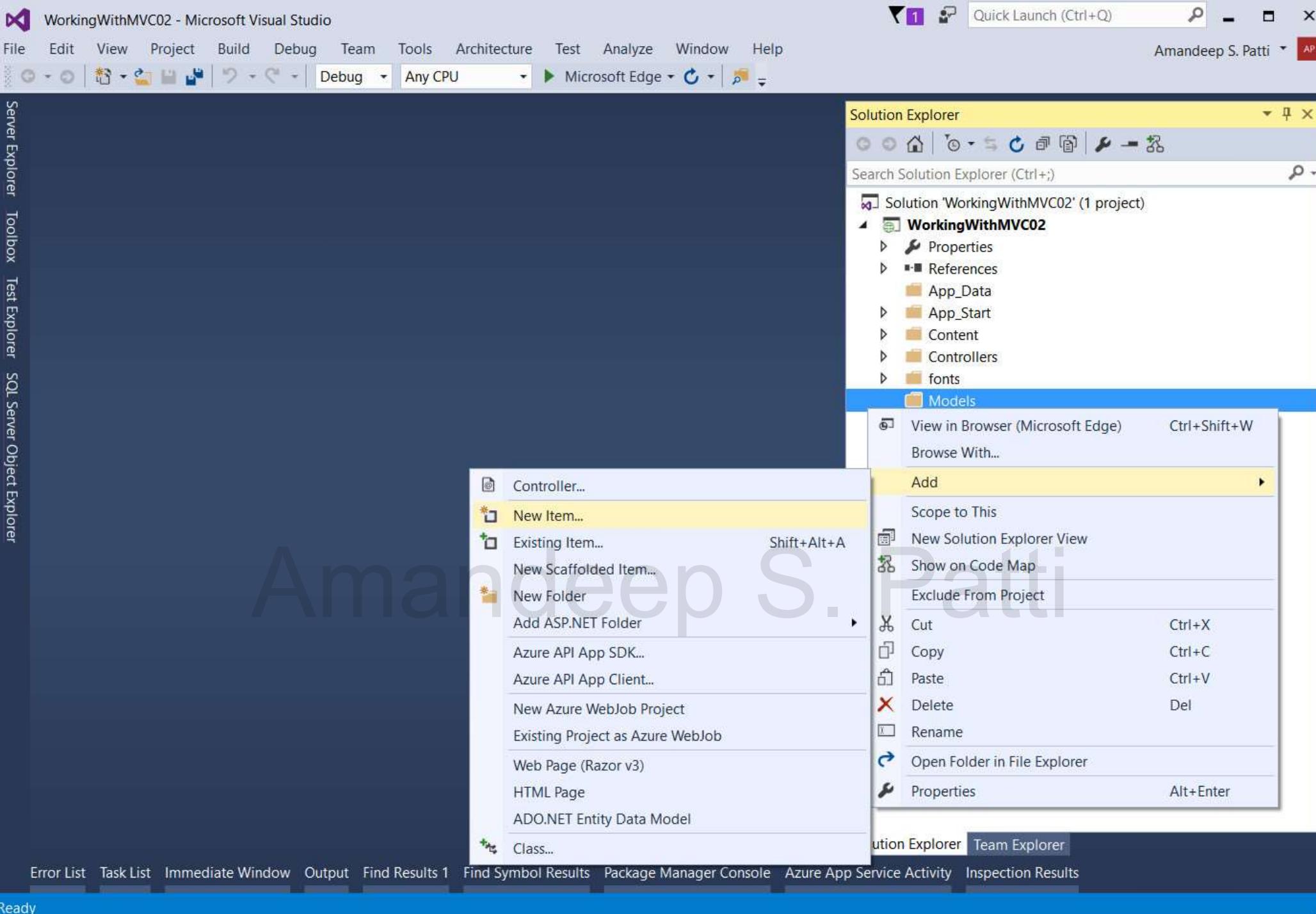
Search Solution Explorer (Ctrl+;)

Solution 'WorkingWithMVC02' (1 project)

WorkingWithMVC02

- Properties
- References
- App_Data
- App_Start
- Content
- Controllers
- fonts
- Models
- Scripts
- Views
- favicon.ico
- Global.asax
- packages.config
- Project_Readme.html
- Web.config

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Installed

Sort by: Default



Search Installed Templates (Ctrl+E)



Visual C#

Code

Data

General

Web

Windows Forms

WPF

Reporting

Silverlight

SQL Server

Workflow

Online



ADO.NET Entity Data Model

Visual C#

Type: Visual C#

A project item for creating an ADO.NET Entity Data Model.



DataSet

Visual C#



EF 5.x DbContext Generator

Visual C#



EF 6.x DbContext Generator

Visual C#



LINQ to SQL Classes

Visual C#



SQL Server Database

Visual C#



XML File

Visual C#



XML Schema

Visual C#



XSLT File

Visual C#

[Click here to go online and find templates.](#)

Name:

DBModel

Add

Cancel

Entity Data Model Wizard



Choose Model Contents

What should the model contain?



EF Designer
from
database



Empty EF
Designer
model



Empty Code
First model



Code First
from
database

Creates an empty model in the EF Designer as a starting point for visually designing your model. Later, you can generate a database from your model. The classes your application will interact with are generated from the model.

< Previous

Next >

Finish

Cancel

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

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Quick Launch (Ctrl+Q)

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DBModel.edmx [Diagram1] X

Add New Entity... Association... Inheritance... Complex Type Enum Type... Function Import...

Diagram Zoom Grid Scalar Property Format Select All Validate Update Model from Database... Generate Database from Model... Add Code Generation Item... Mapping Details Model Browser Properties Alt+Enter

from the [Toolbox](#).
or drag them from the [Model Browser](#).

Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'WorkingWithMVC02' (1 project)
WorkingWithMVC02
Properties
References
Analyzers
Antlr3.Runtime
Microsoft.CodeDom.Providers.DotNetCompilerPlatform
Microsoft.CSharp
Microsoft.Web.Infrastructure
Newtonsoft.Json
System
System.ComponentModel.DataAnnotations
System.Configuration
System.Core
System.Data
System.Data.DataSetExtensions
System.Drawing
System.EnterpriseServices
System.Net.Http
System.Net.Http.WebRequest
System.Runtime.Serialization
System.Security
System.Web
System.Web.Abstractions
System.Web.ApplicationServices
System.Web.DynamicData
System.Web.Entity
System.Web.Extensions

Add e

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Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Mapping Details Package Manager Console Azure App Service Activity Inspection Results

Ready

Add Entity

X

Properties

Entity name:

Member

Base type:

(None)

Entity Set:

Members

Key Property

Create key property

Property name:

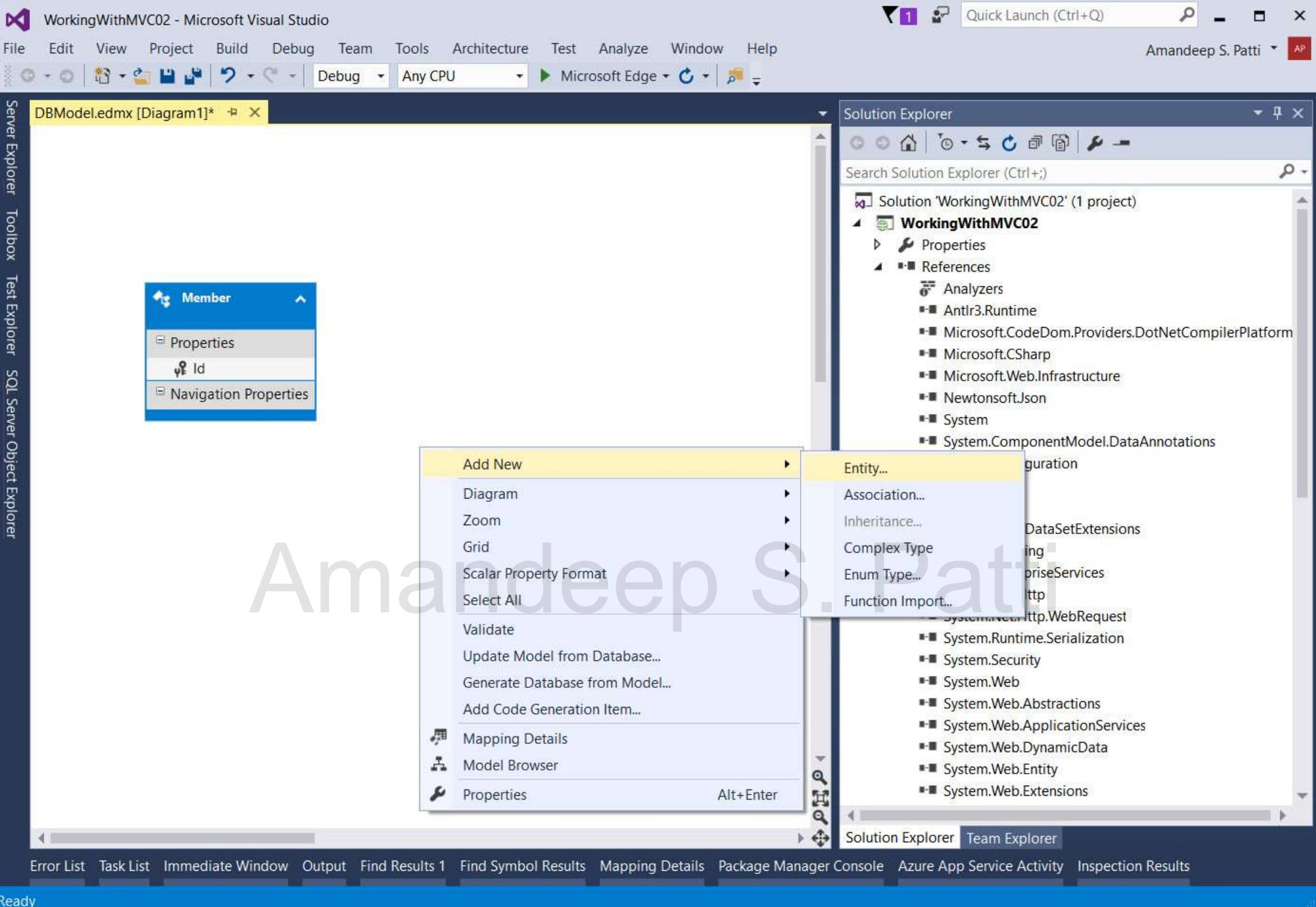
Id

Property type:

Int32

OK

Cancel



Add Entity

X

Properties

Entity name:

Movie

Base type:

(None)

Entity Set:

Movies

Key Property

Create key property

Property name:

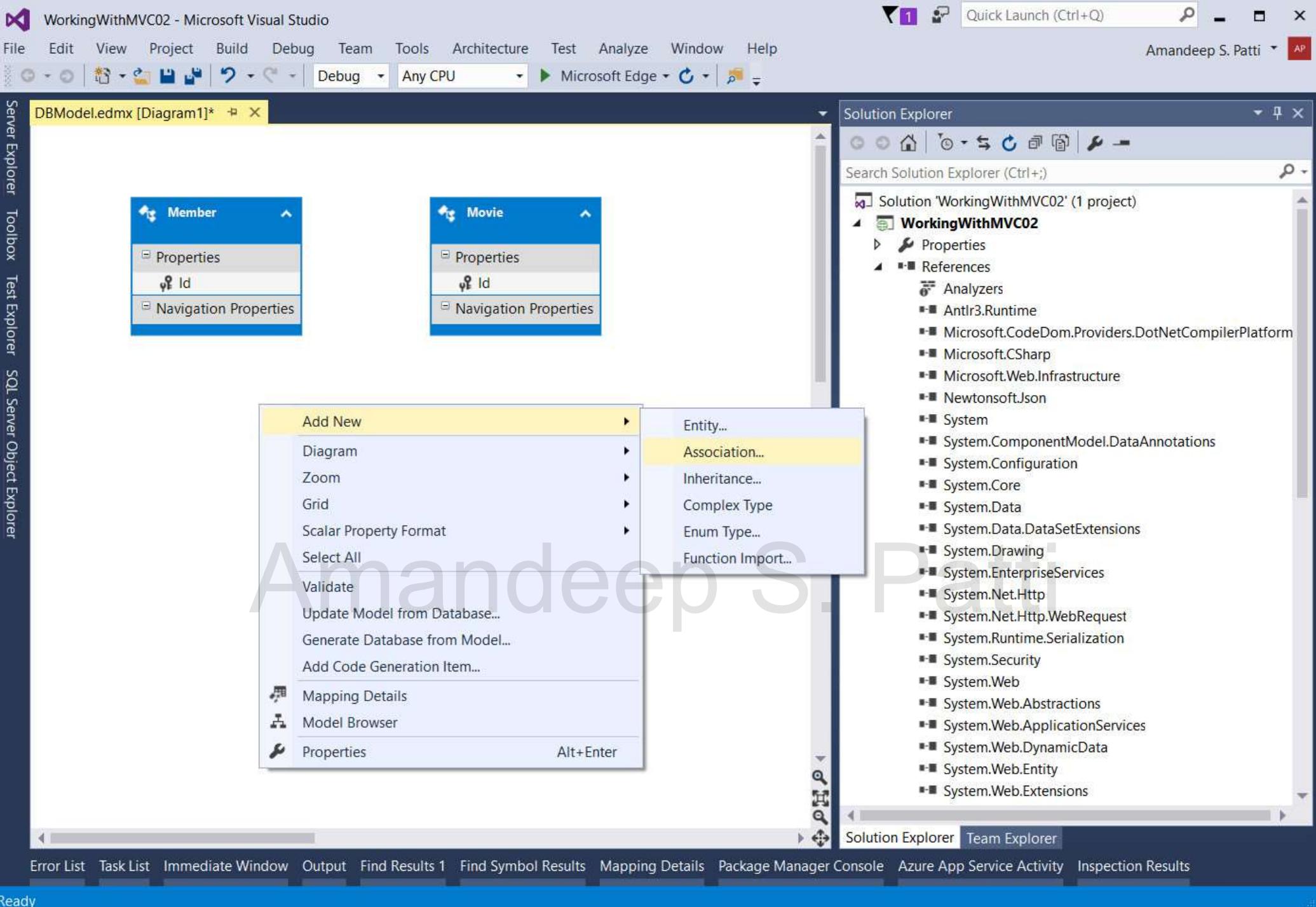
Id

Property type:

Int32

OK

Cancel



Add Association



Association Name:

MemberMovie

End

Entity:

Member

Multiplicity:

* (Many)

 Navigation Property:

Movies

End

Entity:

Movie

Multiplicity:

* (Many)

 Navigation Property:

Members

 Add foreign key properties to the 'Movie' Entity

Member can have * (Many) instances of Movie. Use Member.Movies to access the Movie instances.

Movie can have * (Many) instances of Member. Use Movie.Members to access the Member instances.

OK

Cancel

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

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Quick Launch (Ctrl+Q)

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DBModel.edmx [Diagram1]*

Server Explorer Toolbox Test Explorer SQL Server Object Explorer

Member

- Properties
- Id
- Navigation Properties
- Movies

Movie

- Properties
- Id
- Navigation Properties
- Members

Solution Explorer

Search Solution Explorer (Ctrl+;)

- Solution 'WorkingWithMVC02' (1 project)
- WorkingWithMVC02
 - Properties
 - References
 - Analyzers
 - Antlr3.Runtime
 - Microsoft.CodeDom.Providers.DotNetCompilerPlatform
 - Microsoft.CSharp
 - Microsoft.Web.Infrastructure
 - Newtonsoft.Json
 - System
 - System.ComponentModel.DataAnnotations
 - System.Configuration
 - System.Core
 - System.Data
 - System.Data.DataSetExtensions
 - System.Drawing
 - System.EnterpriseServices
 - System.Net.Http
 - System.Net.Http.WebRequest
 - System.Runtime.Serialization
 - System.Security
 - System.Web
 - System.Web.Abstractions
 - System.Web.ApplicationServices
 - System.Web.DynamicData
 - System.Web.Entity
 - System.Web.Extensions

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Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Mapping Details Package Manager Console Azure App Service Activity Inspection Results

Ready

WorkingWithMVC02 - Microsoft Visual Studio

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Debug Any CPU Microsoft Edge

Quick Launch (Ctrl+Q)

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DBModel.edmx [Diagram1]*

Server Explorer Toolbox Test Explorer SQL Server Object Explorer

Member

- Properties
 - Id
 - FirstName
 - LastName
 - Type
- Navigation Properties
 - Movies

Movie

- Properties
 - Id
 - Title
 - Year
- Navigation Properties
 - Members

Solution Explorer

Search Solution Explorer (Ctrl+;)

- Solution 'WorkingWithMVC02' (1 project)
 - WorkingWithMVC02
 - Properties
 - References
 - Analyzers
 - Antlr3.Runtime
 - Microsoft.CodeDom.Providers.DotNetCompilerPlatform
 - Microsoft.CSharp
 - Microsoft.Web.Infrastructure
 - Newtonsoft.Json
 - System
 - System.ComponentModel.DataAnnotations
 - System.Configuration
 - System.Core
 - System.Data
 - System.Data.DataSetExtensions
 - System.Drawing
 - System.EnterpriseServices
 - System.Net.Http
 - System.Net.Http.WebRequest
 - System.Runtime.Serialization
 - System.Security
 - System.Web
 - System.Web.Abstractions
 - System.Web.ApplicationServices
 - System.Web.DynamicData
 - System.Web.Entity
 - System.Web.Extensions

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Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Mapping Details Package Manager Console Azure App Service Activity Inspection Results

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Quick Launch (Ctrl+Q)

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DBModel.edmx [Diagram1]*

Server Explorer Toolbox Test Explorer SQL Server Object Explorer

Member Movie

Properties Navigation Properties

Id FirstName LastName Type

Id Title Year

Movies

Add New Diagram Zoom Grid Scalar Property Format Select All Validate Update Model from Database... Generate Database from Model... Add Code Generation Item... Mapping Details Model Browser Properties Alt+Enter

Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'WorkingWithMVC02' (1 project)

WorkingWithMVC02

Properties References Analyzers

Antlr3.Runtime Microsoft.CodeAnalysis.Providers.DotNetCompilerPlatform Microsoft.CSharp Microsoft.Web.Infrastructure Newtonsoft.Json System System.ComponentModel.DataAnnotations System.Configuration System.Core System.Data System.Data.DataSetExtensions System.Drawing System.EnterpriseServices System.Net.Http System.Net.Http.WebRequest System.Runtime.Serialization System.Security System.Web System.Web.Abstractions System.Web.ApplicationServices System.Web.DynamicData System.Web.Entity System.Web.Extensions

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Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Mapping Details Package Manager Console Azure App Service Activity Inspection Results

Ready

Generate Database Wizard



Choose Your Data Connection

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

 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:

```
Amandeep S. Patterson
```

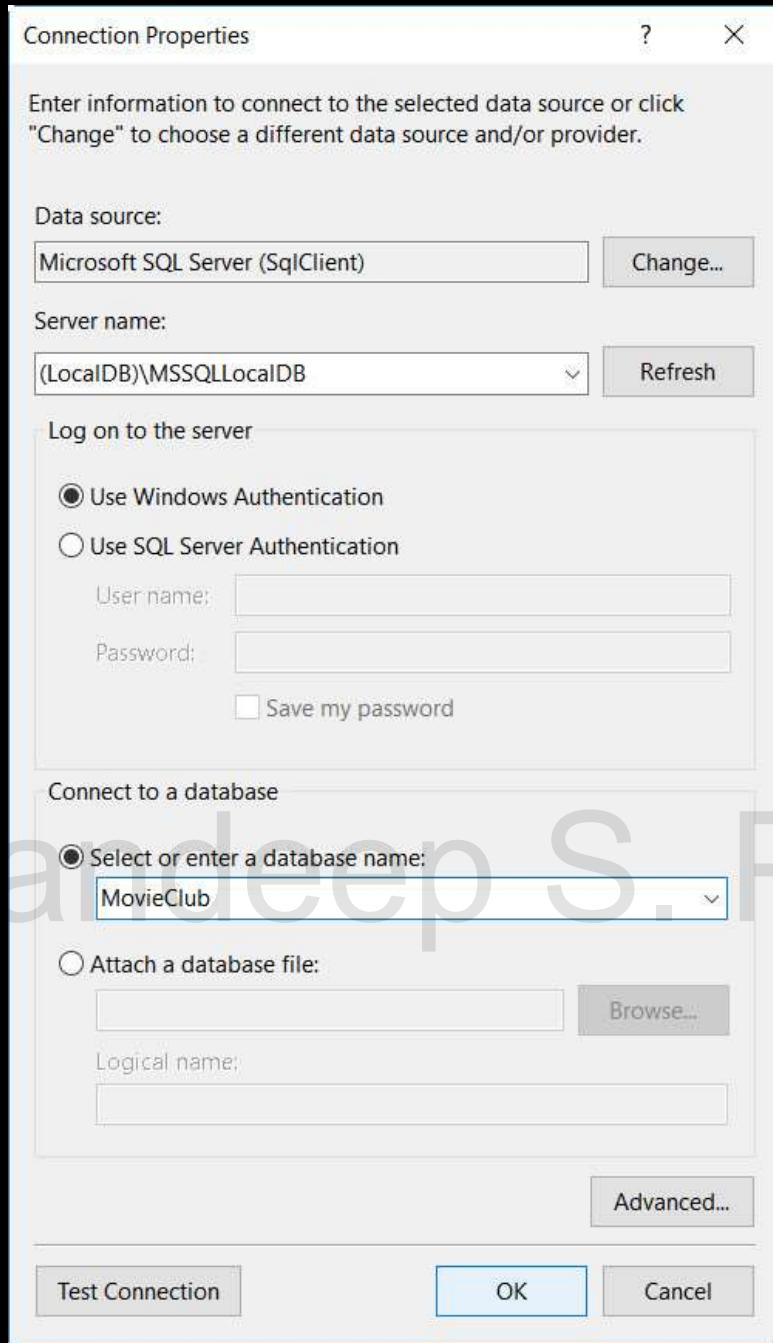
Save connection settings in Web.Config as:

< Previous

Next >

Finish

Cancel



Microsoft Visual Studio



The database 'MovieClub' does not exist or you do not have permission to see it.

Would you like to attempt to create it?

Yes

No

Generate Database Wizard

X



Choose Your Data Connection

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

54ee75141614\localdb#2a71aed6.MovieClub.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://*/Models.DBModel.csdl|res://*/Models.DBModel.ssdl|
res://*/Models.DBModel.msl;provider=System.Data.SqlClient;provider connection string="data
source=(LocalDB)\MSSQLLocalDB;initial catalog=MovieClub;integrated
security=True;MultipleActiveResultSets=True;App=EntityFramework"
```

 Save connection settings in Web.Config as:

DBModelContainer

< Previous

Next >

Finish

Cancel



Choose Your Version

Which version of Entity Framework do you want to use?

- Entity Framework 6.x
 Entity Framework 5.0

It is also possible to install and use other versions of Entity Framework.
[Learn more about this](#)

< Previous

Next >

Finish

Cancel

Generate Database Wizard



Summary and Settings

Save DDL As:

DDL

```
-- Entity Designer DDL Script for SQL Server 2005, 2008, 2012 and Azure
-- Date Created: 10/02/2016 14:10:11
-- Generated from EDMX file: C:\Demos\WorkingWithMVC02\Models\DBModel.edmx
```

```
SET QUOTED_IDENTIFIER OFF;
GO
USE [MovieClub];
GO
IF SCHEMA_ID(N'dbo') IS NULL EXECUTE(N'CREATE SCHEMA [dbo]');
GO
```

```
-- Dropping existing FOREIGN KEY constraints
```

< Previous

Next >

Finish

Cancel

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team SQL Tools Architecture Test Analyze Window Help

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DBModel.edmx.sql DBModel.edmx [Diagram1]*

Server Explorer Toolbox Test Explorer Solution Explorer Team Explorer

```
-- Entity Designer DDL Script for SQL Server 2005, 2008, 2012
-- Date Created: 10/02/2016 14:10:11
-- Generated from EDMX file: C:\Demos\WorkingWithMVC02\Models\DBModel.edmx

SET QUOTED_IDENTIFIER OFF;
GO
USE [MovieClub];
GO
IF SCHEMA_ID(N'dbo') IS NULL EXECUTE(N'CREATE SCHEMA [dbo]');
GO

-- Dropping existing FOREIGN KEY constraints

-- Dropping existing tables
```

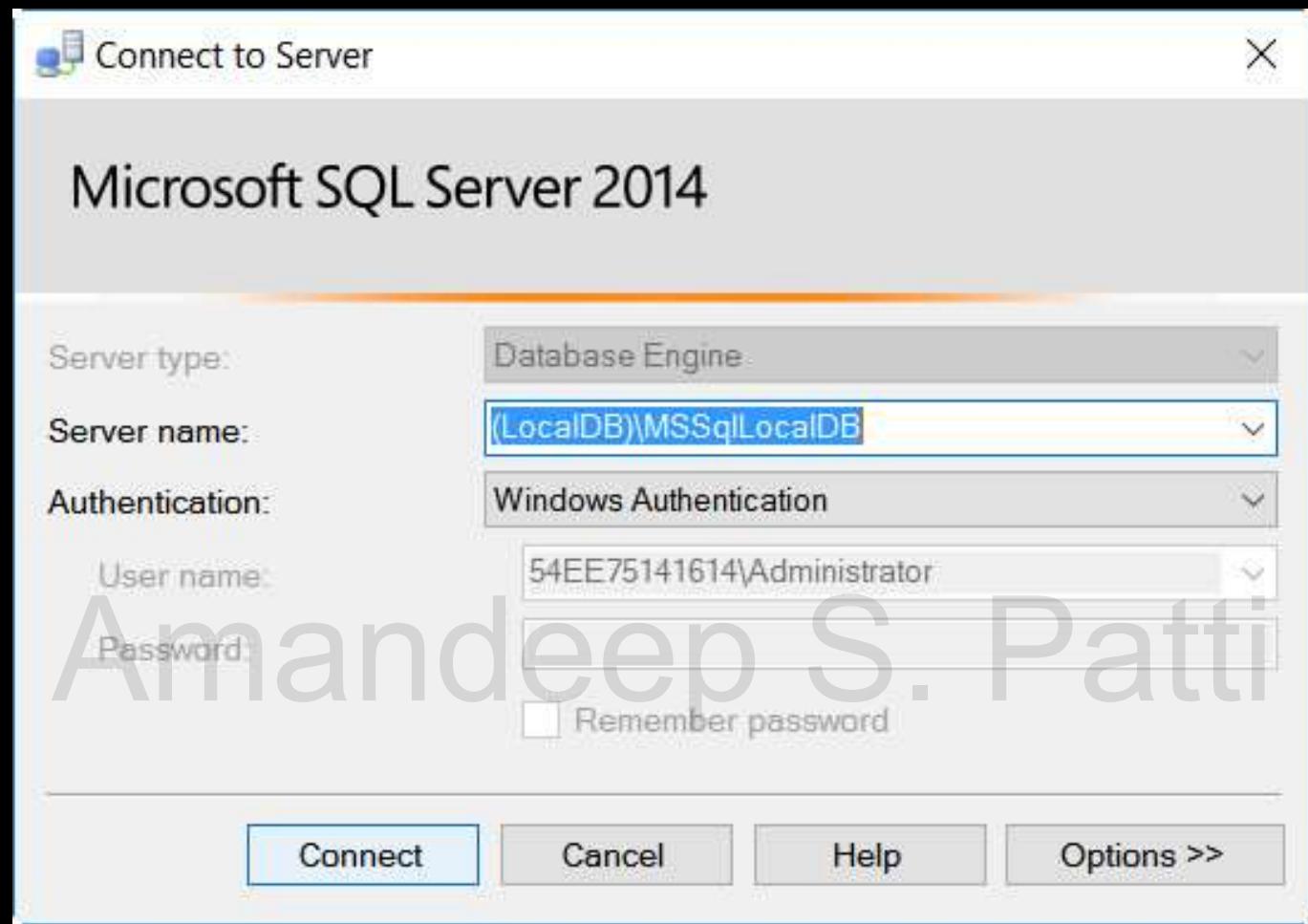
117 % Disconnected. 0 rows

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Ready Ln 18 Col 54 Ch 54 INS

Contextual menu open over the SQL script:

- Insert Snippet... Ctrl+K, Ctrl+X
- Surround With... Ctrl+K, Ctrl+S
- Peek Definition Alt+F12
- Run Flagged Threads To Cursor
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Outlining
- Intellisense Enabled
- Connection
- Execution Settings
- Execute Ctrl+Shift+E
- Execute With Debugger
- Cancel Execution Alt+Break
- Display Estimated Execution Plan Ctrl+D, E
- Parse
- Results To



WorkingWithMVC02 - Microsoft Visual Studio

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Server Explorer | Toolbox | Test Explorer | SQL Server Object... | Error List | Task List | Immediate Window | Output | Find Results 1 | Find Symbol Results | Package Manager Console | Azure App Service Activity | Inspection Results

Ready

Debug Any CPU Microsoft Edge

DBModel.edmx.sql DBModel.edmx [Diagram1]*

MovieClub

DBModelContainer (WorkingWithMVC02)

Tables

- MemberMovie
 - Members_Id
 - Movies_Id
- Members
 - Id
 - FirstName
 - LastName
 - Type
- Movies
 - Id
 - Title
 - Year

Views

Stored Procedures

Functions

Synonyms

Types

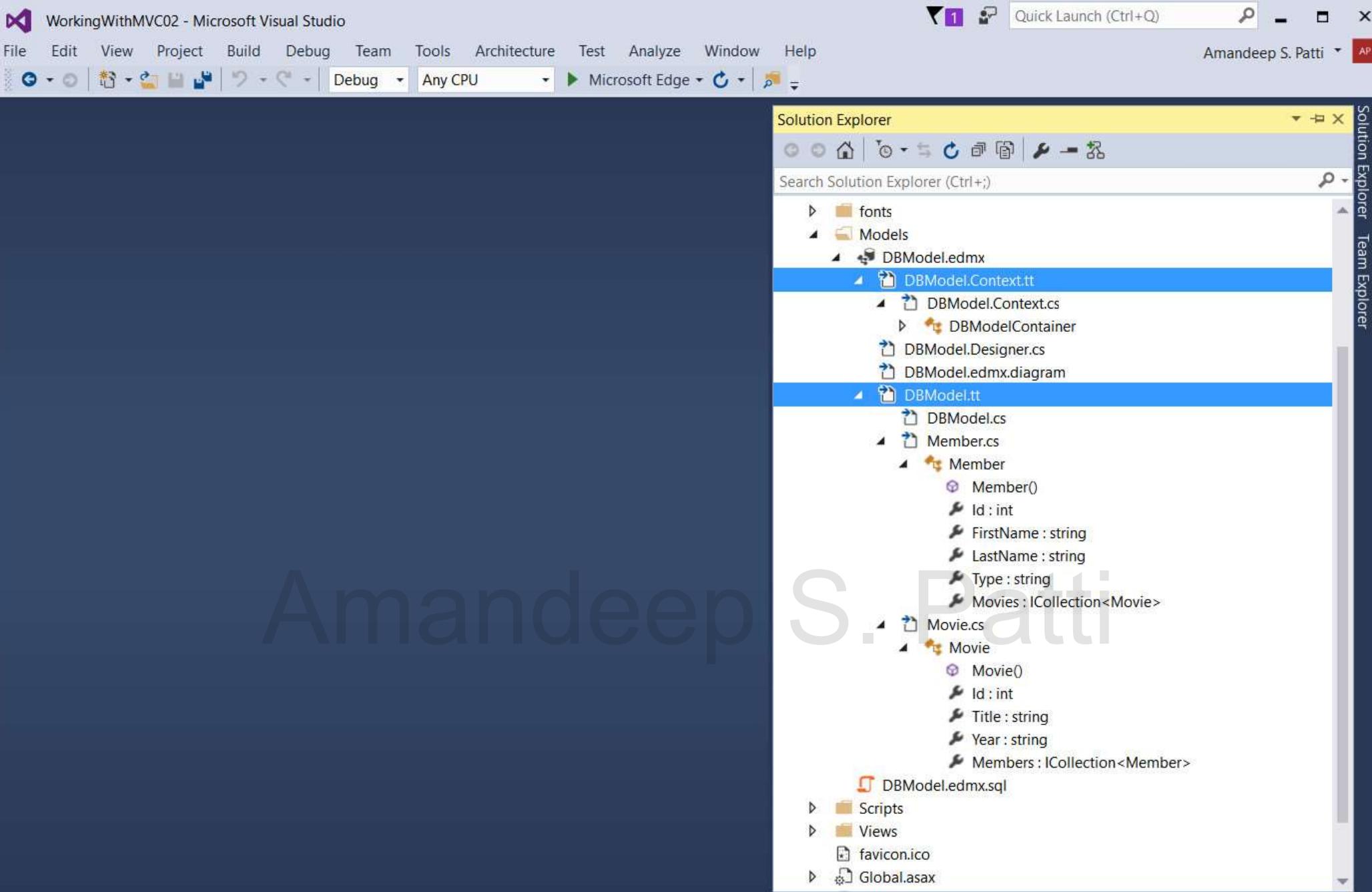
Assemblies

Servers

-- Entity Designer DDL Script for SQL Server 2005, 2008,
-- Date Created: 10/02/2016 14:10:11
-- Generated from EDMX file: C:\Demos\WorkingWithMVC02\M
SET QUOTED_IDENTIFIER OFF;
GO
USE [MovieClub];
GO
CREATE SCHEMA [dbo] EXECUTE CREATE SCHEMA [dbo]

129 % T-SQL Message Command(s) completed successfully.

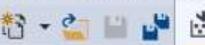
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File Edit View Project

Build Debug Team Tools Architecture Test Analyze Window Help



Build Solution

Ctrl+Shift+B



Rebuild Solution



Clean Solution



Run Code Analysis on Solution

Alt+F11



Build Selection



Rebuild Selection



Clean Selection



Publish WorkingWithMVC02



On WorkingWithMVC02



Transform All T4 Templates



Batch Build...

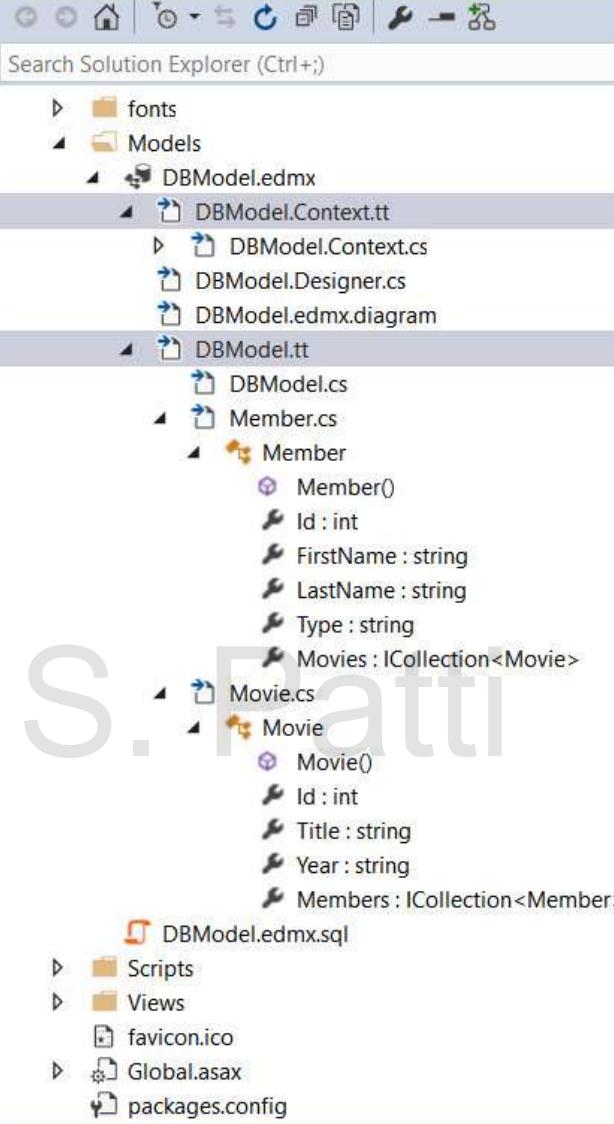


Configuration Manager...

Microsoft Edge



Solution Explorer



Solution Explorer

Team Explorer

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

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Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'WorkingWithMVC02' (1 project)

WorkingWithMVC02

- Properties
- References
- App_Data
- App_Start
- Content
- Controllers

View in Browser (Microsoft Edge) Ctrl+Shift+W

Browse With...

Add

- Scope to This
- New Solution Explorer View
- Show on Code Map
- Exclude From Project
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Delete Del
- Rename
- Open Folder in File Explorer
- Properties Alt+Enter

Controller...

New Item... Shift+Alt+A

Existing Item... New Scaffolded Item...

New Folder

- Add ASP.NET Folder
- Azure API App SDK...
- Azure API App Client...

New Azure WebJob Project

Existing Project as Azure WebJob

ADO.NET Entity Data Model

Web Page (Razor v3)

HTML Page

Class...

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Rebuild All succeeded

Ln 1 Col 1 Ch 1 INS

Installed

Common
Controller MVC 5 Controller - Empty MVC 5 Controller with read/write actions MVC 5 Controller with views, using Entity Framework Web API 2 Controller – Empty Web API 2 Controller with actions, using Entity Framework Web API 2 Controller with read/write actions Web API 2 OData v3 Controller with actions, using Entity Framework Web API 2 OData v3 Controller with read/write actions

MVC 5 Controller with views, using Entity Framework

by Microsoft
v5.0.0.0

An MVC controller with actions and Razor views to create, read, update, delete, and list entities from an Entity Framework data context.

Id: MvcControllerWithContextScaffolder

[Click here to go online and find more scaffolding extensions.](#)

Add

Cancel

Add Controller



Model class:

Member (WorkingWithMVC02.Models)



Data context class:

DBModelContainer (WorkingWithMVC02.Models)



Use async controller actions

Views:

Generate views

Reference script libraries

Use a layout page:

...

(Leave empty if it is set in a Razor _viewstart file)

Controller name:

MembersController

Add

Cancel

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

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MembersController.cs

WorkingWithMVC02

WorkingWithMVC02.Controllers.MembersController.cs

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Data.Entity;
using System.Linq;
using System.Net;
using System.Web;
using System.Web.Mvc;
using WorkingWithMVC02.Models;

namespace WorkingWithMVC02.Controllers
{
    public class MembersController : Controller
    {
        private DBModelContainer db = new DBModelContainer();

        // GET: Members
        public ActionResult Index()
        {
            return View(db.Members.ToList());
        }
    }
}
```

Solution Explorer

Search Solution Explorer (Ctrl+Shift+F)

Solution 'WorkingWithMVC02' (1 project)

- WorkingWithMVC02
 - Properties
 - References
 - App_Data
 - App_Start
 - Content
 - Controllers
 - HomeController.cs
 - MembersController.cs
 - fonts
 - Models
 - Scripts
- Views
 - Home
 - Members
 - Create.cshtml
 - Delete.cshtml
 - Details.cshtml
 - Edit.cshtml
 - Index.cshtml
 - Shared
 - _ViewStart.cshtml
 - Web.config
 - favicon.ico
 - Global.asax
 - packages.config
 - Project_Readme.html
 - Web.config

Team Explorer

Index - My ASP.NET Apj X +

← → ⌂ localhost:8659/members

Application name Home About Contact

Index

[Create New](#)

FirstName	LastName	Type
-----------	----------	------

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Create - My ASP.NET App

localhost:8659/members/Create

Application name Home About Contact

Create

Member

FirstName	<input type="text" value="Amandeep"/>
LastName	<input type="text" value="Patti"/>
Type	<input type="text" value="Gold"/> ×

[Back to List](#)

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© 2016 - My ASP.NET Application

http://localhost:8659/members/Create

Index - My ASP.NET App X +

← → ⏪ localhost:8659/members ⏹ ⏷ ⏸ ⏹ ⏺ ⏻

Application name Home About Contact

Index

Create New

FirstName	LastName	Type	
Amandeep	Patti	Gold	Edit Details Delete
John	Simth	Silver	Edit Details Delete
Chen	Lee	Silver	Edit Details Delete

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Amandeep S. Patti

http://localhost:8659/members/Details/1

Details - My ASP.NET App

localhost:8659/members/Details/1

Application name Home About Contact

Details

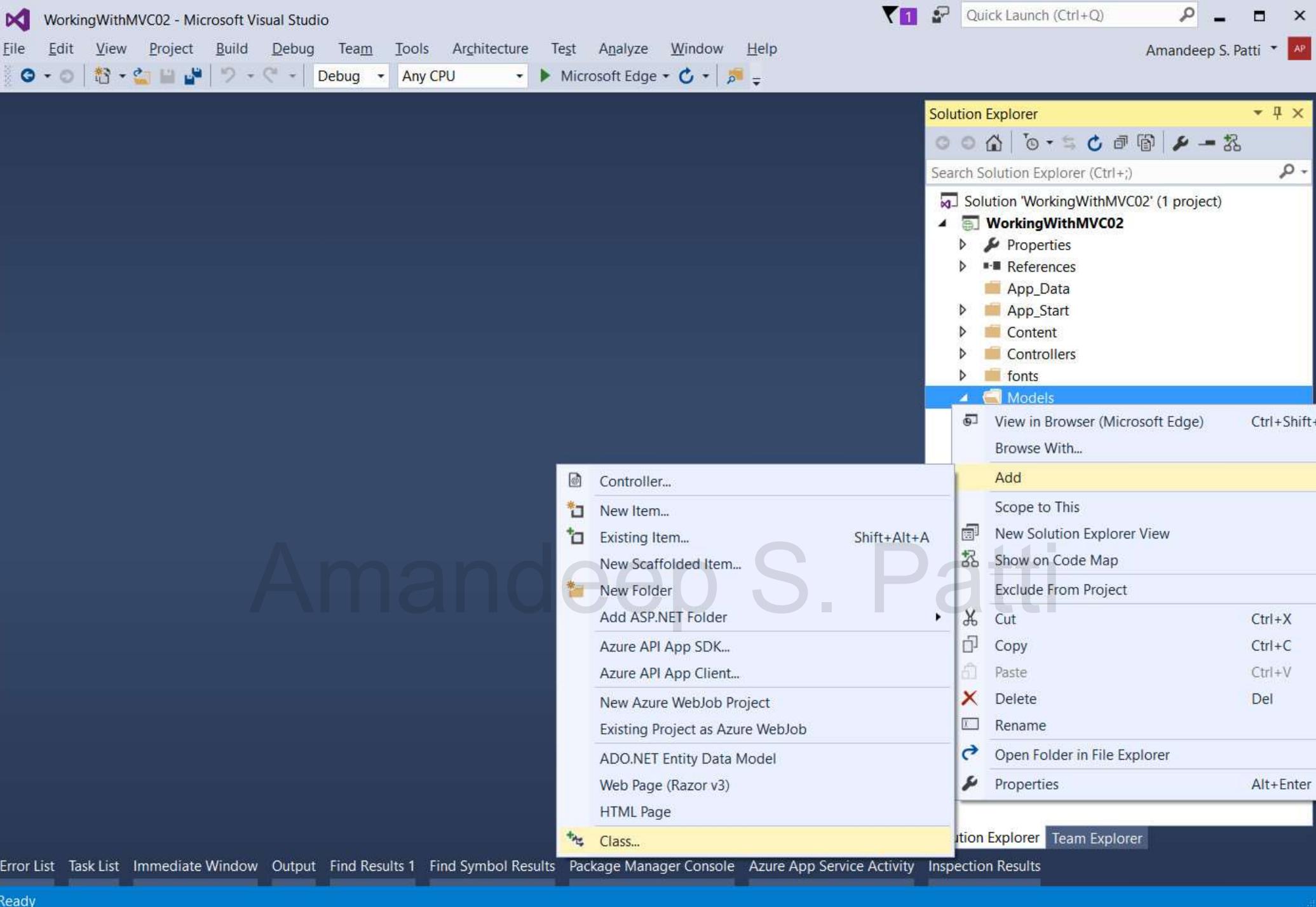
Member

FirstName	Amandeep
LastName	Patti
Type	Gold

[Edit](#) | [Back to List](#)

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Installed

Sort by: Default



Search Installed Templates (Ctrl+E)



Visual C#

- Code
 - Data
 - General
- Web
- Windows Forms
 - WPF
 - Reporting
 - Silverlight
 - SQL Server
 - Workflow

Online

	Class	Visual C#
	Interface	Visual C#
	ADO.NET Entity Data Model	Visual C#
	Application Manifest File	Visual C#
	Assembly Information File	Visual C#
	Class Diagram	Visual C#
	Code Analysis Rule Set	Visual C#
	Code File	Visual C#
	DataSet	Visual C#
	Debugger Visualizer	Visual C#
	EF 5.x DbContext Generator	Visual C#
	EF 6.x DbContext Generator	Visual C#
	Installer Class	Visual C#

[Click here to go online and find templates.](#)

Name:

MemberFavouriteMoviesVM.cs

Add

Cancel

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

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MemberFavouriteMoviesVM.cs X

WorkingWithMVC02 WorkingWithMVC02.Models.MemberFavo

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;

namespace WorkingWithMVC02.Models
{
    public class MemberFavouriteMoviesVM
    {
    }
}
```

Solution Explorer

Search Solution Explorer (Ctrl+.)

Solution 'WorkingWithMVC02' (1 project)

- WorkingWithMVC02
 - Properties
 - References
 - App_Data
 - App_Start
 - Content
 - Controllers
 - fonts
 - Models
 - DBModel.edmx
 - DBModel.edmx.sql
 - MemberFavouriteMoviesVM.cs
 - Scripts
 - Views
 - favicon.ico
 - Global.asax
 - packages.config
 - Project_Readme.html
 - Web.config

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106 %

Solution Explorer Team Explorer

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Ready Ln 1 Col 1 Ch 1 INS

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

MemberFavouriteMoviesVM.cs* X

WorkingWithMVC02 WorkingWithMVC02.Models.FavouriteMov

```
using System.Linq;
using System.Web;

namespace WorkingWithMVC02.Models
{
    public class MemberFavouriteMoviesVM
    {
    }

    public class FavouriteMovie
    {
    }
}
```

Solution Explorer

Search Solution Explorer (Ctrl+Shift+F)

Solution 'WorkingWithMVC02' (1 project)

- WorkingWithMVC02
 - Properties
 - References
 - App_Data
 - App_Start
 - Content
 - Controllers
 - fonts
 - Models
 - DBModel.edmx
 - DBModel.edmx.sql
 - C# MemberFavouriteMoviesVM.cs
 - Scripts
 - Views
 - favicon.ico
 - Global.asax
 - packages.config
 - Project_Readme.html
 - Web.config

Amandeep S. Patti

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Solution Explorer Team Explorer

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Ready Ln 12 Col 1 Ch 1 INS

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

MemberFavouriteMoviesVM.cs* X

WorkingWithMVC02 WorkingWithMVC02.Models.FavouriteMov Title

```
namespace WorkingWithMVC02.Models
{
    public class MemberFavouriteMoviesVM
    {
    }

    public class FavouriteMovie
    {
        public int Id { get; set; }
        public string Title { get; set; }
        public bool isFavourite { get; set; }
    }
}
```

Solution Explorer

Search Solution Explorer (Ctrl+.)

- Solution 'WorkingWithMVC02' (1 project)
 - WorkingWithMVC02
 - Properties
 - References
 - App_Data
 - App_Start
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 - DBModel.edmx.sql
 - C# MemberFavouriteMoviesVM.cs
 - Scripts
 - Views
 - favicon.ico
 - Global.asax
 - packages.config
 - Project_Readme.html
 - Web.config

106 %

Solution Explorer Team Explorer

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Ready Ln 17 Col 1 Ch 1 INS

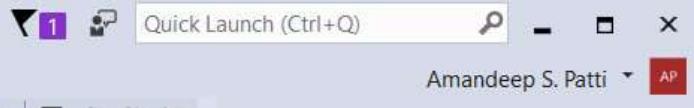


MemberFavouriteMoviesVM.cs*

WorkingWithMVC02

Debug Any CPU

Microsoft Edge



```
{  
    1 reference  
    public class MemberFavouriteMoviesVM  
    {  
        0 references  
        public Member member { get; set; }  
        1 reference  
        public List<FavouriteMovie> FavouriteMovies { get; set; }  
        0 references  
        public MemberFavouriteMoviesVM()  
        {  
            FavouriteMovies = new List<FavouriteMovie>();  
        }  
        2 references  
        public class FavouriteMovie  
        {  
            0 references  
            public int Id { get; set; }  
            0 references  
            public string Title { get; set; }  
            0 references  
            public bool isFavourite { get; set; }  
        }  
    }  
}
```

Solution Explorer Team Explorer

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity

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WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

MembersController.cs* □ ×

WorkingWithMVC02 WorkingWithMVC02.Controllers Members Delete(int? id)

```
public ActionResult Edit(int? id){...}

// POST: Members/Edit/5 ...
[HttpPost]
[ValidateAntiForgeryToken]
public ActionResult Edit([Bind(Include = "Id,FirstName,LastName") ...]

// GET: Members/Delete/5
public ActionResult Delete(int? id){...}

// POST: Members/Delete/5
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
public ActionResult DeleteConfirmed(int id){...}
```

Solution Explorer

Search Solution Explorer (Ctrl+Shift+F)

Solution 'WorkingWithMVC02' (1 project)

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 - packages.config
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 - Web.config

Amandeep S. Patti

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Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

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Ready

WorkingWithMVC02 - Microsoft Visual Studio

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Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

MembersController.cs*

WorkingWithMVC02 WorkingWithMVC02.Controllers.MembersController FavoriteMoviesEdit(int? id)

```
// POST: Members/Edit/5 ...
[HttpPost]
[ValidateAntiForgeryToken]
public ActionResult Edit([Bind(Include = "Id,FirstName,LastName,Type")] Member member)...
```

```
0 references
public ActionResult FavoriteMoviesEdit(int? id)
{
}
```

```
0 references
// GET: Members/Delete/5
public ActionResult Delete(int? id)...
```

```
0 references
// POST: Members/Delete/5
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
public ActionResult Delete(int? id)...
```

Amandeep S. Patti

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

MembersController.cs*

WorkingWithMVC02 WorkingWithMVC02.Controllers.MembersController FavoriteMoviesEdit(int? id)

```
// POST: Members/Edit/5 ...
[HttpPost]
[ValidateAntiForgeryToken]
public ActionResult Edit([Bind(Include = "Id,FirstName,LastName,Type")] Member member)...
```

```
0 references
public ActionResult FavoriteMoviesEdit(int? id)
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }
}
```

```
0 references
// GET: Members/Delete/5
public ActionResult Delete(int? id)...
```

```
// POST: Members/Delete/5
```

106 %

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WorkingWithMVC02 - Microsoft Visual Studio

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Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

MembersController.cs*

WorkingWithMVC02 WorkingWithMVC02.Controllers.MembersController FavoriteMoviesEdit(int? id)

```
// POST: Members/Edit/5 ...
[HttpPost]
[ValidateAntiForgeryToken]
public ActionResult Edit([Bind(Include = "Id,FirstName,LastName,Type")] Member member)...
```

0 references

```
public ActionResult FavoriteMoviesEdit(int? id)
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }

    Member member = db.Members.Find(id);
    if (member == null)
    {
        return HttpNotFound();
    }
}
```

106 %

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

MembersController.cs* □ ×

WorkingWithMVC02 WorkingWithMVC02.Controllers.MembersController FavoriteMoviesEdit(int? id)

```
0 references
public ActionResult FavoriteMoviesEdit(int? id)
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }

    Member member = db.Members.Find(id);
    if (member == null)
    {
        return HttpNotFound();
    }

    MemberFavouriteMoviesVM mfmvm = new MemberFavouriteMoviesVM();
}
```

Amandeep S. Patti

106 % // GET: Members/Delete/5

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Ready Ln 105 Col 1 Ch 1 INS

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

MembersController.cs* □ ×

WorkingWithMVC02 WorkingWithMVC02.Controllers.MembersController FavoriteMoviesEdit(int? id)

```
0 references
public ActionResult FavoriteMoviesEdit(int? id)
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }

    Member member = db.Members.Find(id);
    if (member == null)
    {
        return HttpNotFound();
    }

    MemberFavouriteMoviesVM mfmvm = new MemberFavouriteMoviesVM();
    mfmvm.member = member;
}
```

106 %

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Ready Ln 107 Col 35 Ch 35 INS

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

MembersController.cs*

WorkingWithMVC02 WorkingWithMVC02.Controllers.MembersController FavoriteMoviesEdit(int? id)

```
if (member == null)
{
    return HttpNotFound();
}

MemberFavouriteMoviesVM mfmvm = new MemberFavouriteMoviesVM();

mfmvm.member = member;

List<Movie> movies = db.Movies.ToList();

foreach (Movie movie in movies)
{
    FavouriteMovie fm = new FavouriteMovie();
    fm.Id = movie.Id;
    fm.Title = movie.Title;
    fm.isFavourite = member.Movies.Contains(movie);
    mfmvm.FavouriteMovies.Add(fm);
}

}
```

106 %

WorkingWithMVC02 - Microsoft Visual Studio

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Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

MembersController.cs* ▾ ×

WorkingWithMVC02 WorkingWithMVC02.Controllers.MembersController FavoriteMoviesEdit(int? id)

```
if (member == null)
{
    return HttpNotFound();
}

MemberFavouriteMoviesVM mfmvm = new MemberFavouriteMoviesVM();

mfmvm.member = member;

List<Movie> movies = db.Movies.ToList();

foreach (Movie movie in movies)
{
    FavouriteMovie fm = new FavouriteMovie();
    fm.Id = movie.Id;
    fm.Title = movie.Title;
    fm.isFavourite = member.Movies.Contains(movie);

    mfmvm.FavouriteMovies.Add(fm);
}

return View(mfmvm);
}
```

106 %

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Ready Ln 121 Col 1 Ch 1 INS

WorkingWithMVC02 - Microsoft Visual Studio

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Quick Launch (Ctrl+Q)

1 Amandeep S. Patti AP

MembersController.cs*

WorkingWithMVC02 WorkingWithMVC02.Controllers.MembersController FavoriteMoviesEdit(MemberFavouriteMoviesVM mfmvm)

```
        return View(mfmvm);
    }

    [HttpPost]
    public ActionResult FavoriteMoviesEdit(MemberFavouriteMoviesVM mfmvm)
    {

    }

    // GET: Members/Delete/5
    public ActionResult Delete(int? id)...
    // POST: Members/Delete/5
    [HttpPost, ActionName("Delete")]
    [ValidateAntiForgeryToken]
    public ActionResult DeleteConfirmed(int id)...
    protected override void Dispose(bool disposing)...
}
```

106 %

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

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Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

MembersController.cs*

WorkingWithMVC02 WorkingWithMVC02.Controllers.MembersController FavoriteMoviesEdit(MemberFavouriteMoviesVM mfmvm)

```
        return View(mfmvm);
    }

    [HttpPost]
    public ActionResult FavoriteMoviesEdit(MemberFavouriteMoviesVM mfmvm)
    {
        if (ModelState.IsValid)
        {
        }
        else
            return View(mfmvm);
    }

    // GET: Members/Delete/5
    public ActionResult Delete(int? id)...

    // POST: Members/Delete/5
    [HttpPost, ActionName("Delete")]

```

Amandeep S. Patti

WorkingWithMVC02 - Microsoft Visual Studio

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Quick Launch (Ctrl+Q)

1 Amandeep S. Patti AP

MembersController.cs*

WorkingWithMVC02 WorkingWithMVC02.Controllers.MembersController FavoriteMoviesEdit(MemberFavouriteMoviesVM mfmvm)

```
        return View(mfmvm);
    }

    [HttpPost]
    public ActionResult FavoriteMoviesEdit(MemberFavouriteMoviesVM mfmvm)
    {
        if (ModelState.IsValid)
        {
            Member member = db.Members.Find(mfmvm.member.Id);

            db.Entry(member).State = EntityState.Modified;
        }
        else
            return View(mfmvm);
    }

    // GET: Members/Delete/5
    public ActionResult Delete(int? id)...
```

106 %

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Solution Explorer Team Explorer

WorkingWithMVC02 - Microsoft Visual Studio

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Quick Launch (Ctrl+Q)

1 Amandeep S. Patti AP

MembersController.cs*

WorkingWithMVC02 WorkingWithMVC02.Controllers MembersController FavoriteMoviesEdit(MemberFavouriteMoviesVM mfmvm)

```
public ActionResult FavoriteMoviesEdit(MemberFavouriteMoviesVM mfmvm)
{
    if (ModelState.IsValid)
    {
        Member member = db.Members.Find(mfmvm.member.Id);

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

        member.Movies.Clear();

        foreach (FavouriteMovie fm in mfmvm.FavouriteMovies)
        {
            if (fm.isFavourite)
            {
                Movie movie = db.Movies.Find(fm.Id);
                member.Movies.Add(movie);
            }
        }
    }
    else
        return View(mfmvm);
}
```

106 %

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

1 Amandeep S. Patti AP

MembersController.cs*

WorkingWithMVC02 WorkingWithMVC02.Controllers MembersController FavoriteMoviesEdit(MemberFavouriteMoviesVM mfmvm)

```
public ActionResult FavoriteMoviesEdit(MemberFavouriteMoviesVM mfmvm)
{
    if (ModelState.IsValid)
    {
        Member member = db.Members.Find(mfmvm.member.Id);

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

        member.Movies.Clear();

        foreach (FavouriteMovie fm in mfmvm.FavouriteMovies)
        {
            if (fm.isFavourite)
            {
                Movie movie = db.Movies.Find(fm.Id);
                member.Movies.Add(movie);
            }
        }

        db.SaveChanges();

        return RedirectToAction("Index");
    }
    else
        return View(mfmvm);
}
```

106 %

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results



```
MembersController.cs*  ▾ ×
WorkingWithMVC02  ▾ WorkingWithMVC02.Controllers.MembersController
public ActionResult Edit(int? id)...
// POST: Members/Edit/5 ...
[HttpPost]
[ValidateAntiForgeryToken]
0 references
public ActionResult Edit([Bind(Include = "Id,FirstName,..."))
0 references
public ActionResult FavoriteMoviesEdit(int? id)...
[HttpPost]
0 references
public ActionResult FavoriteMoviesEdit(MemberFavouri...
// GET: Members/Delete/5
0 references
public ActionResult Delete(int? id)...
// POST: Members/Delete/5
[HttpPost, ActionName("Delete")]
[ValidateAntiForgeryToken]
0 references
public ActionResult DeleteConfirmed(int id)...
3 references
protected override void Dispose(bool disposing)...
```

- Go To View Ctrl+M, Ctrl+G
- Add View... Ctrl+.
- Quick Actions...
- Rename... Ctrl+R, Ctrl+R
- Organize Usings
- Show on Code Map
- Find All References on Code Map
- Show Related Items on Code Map
- Create Unit Tests
- Create IntelliTest
- Run IntelliTest
- Run Tests Ctrl+R, T
- Debug Tests Ctrl+R, Ctrl+T
- Insert Snippet... Ctrl+K, Ctrl+X
- Surround With... Ctrl+K, Ctrl+S
- Peek Definition Alt+F12
- Go To Definition F12
- Go To Implementation
- Find All References
- View Call Hierarchy Ctrl+K, Ctrl+T
- Breakpoint
- Run To Cursor Ctrl+F10
- Run Flagged Threads To Cursor
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Insert Comment
- Outlining
- Find Matching Clones in Solution

Add View



View name:

FavoriteMoviesEdit

Template:

Empty (without model)



Model class:

Data context class:



Options:

 Create as a partial view Reference script libraries Use a layout page:

(Leave empty if it is set in a Razor _viewstart file)

Add

Cancel

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

FavoriteMoviesEdit.cshtml* × MembersController.cs

```
@using WorkingWithMVC02.Models;
@model MemberFavouriteMoviesVM

{@
    ViewBag.Title = "FavoriteMoviesEdit";
}

<h2>FavoriteMoviesEdit</h2>
```

Amandeep S. Patti

106 %

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Item(s) Saved Ln 1 Col 1 Ch 1 INS

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

FavoriteMoviesEdit.cshtml* × MembersController.cs

```
@using WorkingWithMVC02.Models;
@model MemberFavouriteMoviesVM

{@
    ViewBag.Title = "FavoriteMoviesEdit";
}
<h2>Member Favorite Movies</h2>

@using (Html.BeginForm())
{
}
@Html.ActionLink("Back to List", "Index")
```

Amandeep S. Patti

106 %

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Ready Ln 13 Col 42 Ch 42 INS

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

FavoriteMoviesEdit.cshtml* MembersController.cs

```
@using WorkingWithMVC02.Models;
@model MemberFavouriteMoviesVM

{@
    ViewBag.Title = "FavoriteMoviesEdit";
}
<h2>Member Favorite Movies</h2>

@using (Html.BeginForm())
{
    @Html.HiddenFor(model => model.member.Id)

    @Html.DisplayFor(model => model.member.FirstName)
    @Html.DisplayFor(model => model.member.LastName)
}

@Html.ActionLink("Back to List", "Index")
```

106 %

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Ready Ln 15 Col 1 Ch 1 INS

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

FavoriteMoviesEdit.cshtml* MembersController.cs

```
@using WorkingWithMVC02.Models;
@model MemberFavouriteMoviesVM

{@
    ViewBag.Title = "FavoriteMoviesEdit";
}
<h2>Member Favorite Movies</h2>

@using (Html.BeginForm())
{
    @Html.HiddenFor(model => model.member.Id)

    @Html.DisplayFor(model => model.member.FirstName)
    @Html.DisplayFor(model => model.member.LastName)

    <h3>Select Favourite Movies</h3>

    @for (int i = 0; i < Model.FavouriteMovies.Count; i++)
    {
        @Html.HiddenFor(model => model.FavouriteMovies[i].Id);
        @Html.EditorFor(model => model.FavouriteMovies[i].isFavourite);
        @Html.DisplayFor(model => model.FavouriteMovies[i].Title);
        <br />
    }
}

< Html.ActionLink("Back to List", "Index") >
```

106 %

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

FavoriteMoviesEdit.cshtml* MembersController.cs

```
@{  
    ViewBag.Title = "FavoriteMoviesEdit";  
}  


## Member Favorite Movies

  
@using(Html.BeginForm())  
{  
    @Html.HiddenFor(model => model.member.Id)  
  
    @Html.DisplayFor(model => model.member.FirstName)  
    @Html.DisplayFor(model => model.member.LastName)  
  
    <h3>Select Favourite Movies</h3>  
  
    @for (int i = 0; i < Model.FavouriteMovies.Count; i++)  
    {  
        @Html.HiddenFor(model => model.FavouriteMovies[i].Id);  
        @Html.EditorFor(model => model.FavouriteMovies[i].isFavourite);  
        @Html.DisplayFor(model => model.FavouriteMovies[i].Title);  
        <br />  
    }  
  
    <input type="submit" value="Update" />  
}  
@Html.ActionLink("Back to List", "Index")
```

106 %

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Ready Ln 26 Col 1 Ch 1 INS

WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test Analyze Window Help

Debug Any CPU Microsoft Edge

Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

Index.cshtml*

```
</th>
<th></th>
|
    ch (var item in Model) {
        <r>
        <td>
            @Html.DisplayFor(modelItem => item.FirstName)
        </td>
        <td>
            @Html.DisplayFor(modelItem => item.LastName)
        </td>
        <td>
            @Html.DisplayFor(modelItem => item.Type)
        </td>
        <td>
            @Html.ActionLink("Favorite Movies", "FavoriteMoviesEdit", new { id = item.Id })
            @Html.ActionLink("Edit", "Edit", new { id=item.Id }) |
            @Html.ActionLink("Details", "Details", new { id=item.Id }) |
            @Html.ActionLink("Delete", "Delete", new { id=item.Id })
        </td>
    tr>
    e>
|  |

```

Solution Explorer

Search Solution Explorer

- MembersController.cs
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- DBModel.edmx.sql
- MemberFavouriteMo
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 - Delete.cshtml
 - Details.cshtml
 - Edit.cshtml
 - FavoriteMoviesEc
 - Index.cshtml
- Movies
 - Create.cshtml
 - Delete.cshtml
 - Details.cshtml
 - Edit.cshtml
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 - _ViewStart.cshtml
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106 %

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

Ready Ln 38 Col 1 Ch 1 INS

Index - My ASP.NET App X +

← → ⏪ localhost:8659/Members ⏹ ⏷ ⏸ ⏹ ⏺ ⏻ ⏻

Application name Home About Contact Members Movies

Index

Create New

FirstName	LastName	Type	
Amandeep	Patti	Gold	Favorite Movies Edit Details Delete
John	Simth	Silver	Favorite Movies Edit Details Delete
Chen	Lee	Silver	Favorite Movies Edit Details Delete

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Amandeep S. Patti

http://localhost:8659/Members/FavoriteMoviesEdit/1

FavoriteMoviesEdit - My +

localhost:8659/Members/FavoriteMoviesEdit/1

Application name Home About Contact Members Movies

Member Favorite Movies

AmandeepPatti

Select Favourite Movies

The Terminator
Terminator 2: Judgement Day
Avengers: Age of Ultron
Captain America: Civil War

[Update](#)

[Back to List](#)

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Amandeep S. Patti

FavoriteMoviesEdit - My +

localhost:8659/Members/FavoriteMoviesEdit/1

Application name Home About Contact Members Movies

Member Favorite Movies

AmandeepPatti

Select Favourite Movies

The Terminator
Terminator 2: Judgement Day
Avengers: Age of Ultron
Captain America: Civil War

[Update](#)

[Back to List](#)

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Amandeep S. Patti

http://localhost:8659/Members/FavoriteMoviesEdit/1

Solution Explorer

Search Solution Explorer (Ctrl+Shift+F)

Solution 'WorkingWithMVC02' (1 project)

WorkingWithMVC02

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 - HomeController.cs
 - MembersController.cs
 - MoviesController.cs
- fonts

Models

View in Browser (Microsoft Edge) Ctrl+Shift+W

Browse With...

Add

Scope to This

New Solution Explorer View

Show on Code Map

Exclude From Project

Cut Ctrl+X

Copy Ctrl+C

Paste Ctrl+V

Delete Del

Rename

Open Folder in File Explorer

Properties Alt+Enter

Controller...

New Item...

Existing Item...

New Scaffolded Item... Shift+Alt+A

New Folder

Add ASP.NET Folder

Azure API App SDK...

Azure API App Client...

New Azure WebJob Project

Existing Project as Azure WebJob

ADO.NET Entity Data Model

Web Page (Razor v3)

HTML Page

Class...

Installed

Sort by: Default



Search Installed Templates (Ctrl+E)



Visual C#

- Code
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 - General
- Web
- Windows Forms
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Online

	Class	Visual C#
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	ADO.NET Entity Data Model	Visual C#
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	Assembly Information File	Visual C#
	Class Diagram	Visual C#
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	DataSet	Visual C#
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	EF 5.x DbContext Generator	Visual C#
	EF 6.x DbContext Generator	Visual C#
	Installer Class	Visual C#

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Name:

MetaData.cs

Add

Cancel

WorkingWithMVC02 - Microsoft Visual Studio

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Amandeep S. Patti AP

Debug Any CPU Microsoft Edge

MetaData.cs* WorkingWithMVC02 WorkingWithMVC02.Models.MovieMetaData

```
namespace WorkingWithMVC02.Models
{
    public class MemberMetaData
    {
    }

    public class MovieMetaData
    {
    }
}
```

106 %

Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

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WorkingWithMVC02 - Microsoft Visual Studio

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Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

Debug Any CPU Microsoft Edge

MetaData.cs*

WorkingWithMVC02 WorkingWithMVC02.Models.MemberMetaData

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.ComponentModel.DataAnnotations;

namespace WorkingWithMVC02.Models
{
    public class MemberMetaData
    {
    }

    public class MovieMetaData
    {
    }
}
```

0 references 0 references

Amandeep S. Patti

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```
Member.cs  MetaData.cs*
WorkingWithMVC02  WorkingWithMVC02.Models.Member
public partial class Member
{
    [System.Diagnostics.CodeAnalysis.SuppressMessage("Style", "IDE0051: Remove unused private members", Justification = "Used by Entity Framework")]
    public Member()
    {
        this.Movies = new HashSet<Movie>();
    }

    public int Id { get; set; }
    public string FirstName { get; set; }
    public string LastName { get; set; }
    public string Type { get; set; }

    [System.Diagnostics.CodeAnalysis.SuppressMessage("Style", "IDE0051: Remove unused private members", Justification = "Used by Entity Framework")]
    public virtual ICollection<Movie> Movies { get; set; }
}
```



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Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'WorkingWithMVC02' (1 p)

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WorkingWithMVC02 - Microsoft Visual Studio

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Member.cs MetaData.cs*

WorkingWithMVC02 WorkingWithMVC02.Models.MemberMetaData FirstName

```
using System.ComponentModel.DataAnnotations;

namespace WorkingWithMVC02.Models
{
    public class MemberMetaData
    {
        public string FirstName { get; set; }
        public string LastName { get; set; }
        public string Type { get; set; }
    }

    public class MovieMetaData
    {
    }
}
```

Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'WorkingWithMVC02' (1 p)

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WorkingWithMVC02 - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Architecture Test

Debug Any CPU

Movie.cs MetaData.cs

WorkingWithMVC02 WorkingWithMVC02.Models.Movie

```
public partial class Movie
{
    [System.Diagnostics.CodeAnalysis.SuppressMessage("Microsoft.Usage", "CA2214:Do not call S
    public Movie()
    {
        this.Members = new HashSet<Member>();
    }

    public int Id { get; set; }
    public string Title { get; set; }
    public string Year { get; set; }

    [System.Diagnostics.CodeAnalysis.SuppressMessage("Microsoft.Usage", "CA2214:Do not call S
    public virtual ICollection<Member> Members { get; set; }
}
```

Organize Usings

- Show on Code Map
- Find All References on Code Map
- Show Related Items on Code Map
- Create Unit Tests
- Create IntelliTest
- Run IntelliTest
- Run Tests Ctrl+R, T
- Debug Tests Ctrl+R, Ctrl+T
- Insert Snippet... Ctrl+K, Ctrl+X
- Surround With... Ctrl+K, Ctrl+S
- Peek Definition Alt+F12
- Go To Definition F12
- Go To Implementation
- Find All References
- View Call Hierarchy Ctrl+K, Ctrl+T
- Breakpoint
- Run To Cursor Ctrl+F10
- Run Flagged Threads To Cursor
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Insert Comment
- Outlining
- Find Matching Clones in Solution

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Movie.cs MetaData.cs*

WorkingWithMVC02 WorkingWithMVC02.Models.MovieMetaData Title

```
namespace WorkingWithMVC02.Models
{
    public class MemberMetaData
    {
        public string FirstName { get; set; }
        public string LastName { get; set; }
        public string Type { get; set; }
    }

    public class MovieMetaData
    {
        public string Title { get; set; }
        public string Year { get; set; }
    }
}
```

Solution Explorer

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Solution 'WorkingWithMVC02' (1 p)

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Amandeep S. Patti AP

MetaData.cs* X

WorkingWithMVC02 WorkingWithMVC02.Models.MemberMetaData FirstName

```
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.ComponentModel.DataAnnotations;

namespace WorkingWithMVC02.Models
{
    public class MemberMetaData
    {
        [Required(ErrorMessage = "Member First Name is Required.")]
        [Display(Name = "Member First Name")]
        public string FirstName { get; set; }

        public string LastName { get; set; }

        public string Type { get; set; }
    }

    public class MovieMetaData
    {
        public string Title { get; set; }

        public string Year { get; set; }
    }
}
```

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MetaData.cs* X

WorkingWithMVC02 WorkingWithMVC02.Models.MemberMetaData LastName

```
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.ComponentModel.DataAnnotations;

namespace WorkingWithMVC02.Models
{
    public class MemberMetaData
    {
        [Required(ErrorMessage = "Member First Name is Required.")]
        [Display(Name = "Member First Name")]
        public string FirstName { get; set; }

        [StringLength(15, MinimumLength = 2)]
        [Required(ErrorMessage = "Member Last Name is Required.")]
        public string LastName { get; set; }

        public string Type { get; set; }
    }

    public class MovieMetaData
    {
        public string Title { get; set; }
    }
}
```

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MetaData.cs* ▾ X

WorkingWithMVC02 WorkingWithMVC02.Models.MovieMetaData Title

```
public string FirstName { get; set; }

[StringLength(15, MinimumLength = 2)]
[Required(ErrorMessage = "Member Last Name is Required.")]
0 references
public string LastName { get; set; }
0 references
public string Type { get; set; }
}

0 references
public class MovieMetaData
{
    [Required(ErrorMessage = "Movie Title is Required.")]
    [Display(Name = "Movie Title")]
0 references
    public string Title { get; set; }
0 references
    public string Year { get; set; }
}
```

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Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

MetaData.cs* WorkingWithMVC02 WorkingWithMVC02.Models.MovieMetaData Year

```
public string FirstName { get; set; }

[StringLength(15, MinimumLength = 2)]
[Required(ErrorMessage = "Member Last Name is Required.")]
0 references
public string LastName { get; set; }
0 references
public string Type { get; set; }
}

0 references
public class MovieMetaData
{
    [Required(ErrorMessage = "Movie Title is Required.")]
    [Display(Name = "Movie Title")]
    0 references
    public string Title { get; set; }

    [Required(ErrorMessage = "Movie Release Year is Required.")]
    [Display(Name = "Movie Release Year")]
    [Range(1900, 2017, ErrorMessage = "{0} must be between {1} and {2}.")]
    0 references
    public string Year { get; set; }
}
```

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Error List Task List Immediate Window Output Find Results 1 Find Symbol Results Package Manager Console Azure App Service Activity Inspection Results

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View in Browser (Microsoft Edge) Ctrl+Shift+F12

Browse With...

Add

Scope to This

New Solution Explorer View

Show on Code Map

Exclude From Project

Cut Ctrl+X

Copy Ctrl+C

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Delete Del

Rename

Open Folder in File Explorer

Properties Alt+Enter

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New Item... Shift+Alt+A

Existing Item...

New Scaffolded Item...

New Folder

Add ASP.NET Folder

Azure API App SDK...

Azure API App Client...

New Azure WebJob Project

Existing Project as Azure WebJob

ADO.NET Entity Data Model

Web Page (Razor v3)

HTML Page

Class...

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Installed

Sort by: Default



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Visual C#

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 - SQL Server
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	ADO.NET Entity Data Model	Visual C#
	Application Manifest File	Visual C#
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	Code File	Visual C#
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	EF 5.x DbContext Generator	Visual C#
	EF 6.x DbContext Generator	Visual C#
	Installer Class	Visual C#

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Name:

PartialClasses.cs

Add

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PartialClasses.cs* X

WorkingWithMVC02 WorkingWithMVC02.Models.PartialClasses

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.ComponentModel.DataAnnotations;

namespace WorkingWithMVC02.Models
{
    public class PartialClasses
    {
    }
}
```

Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'WorkingWithMVC02' (1 project)

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WorkingWithMVC02 - Microsoft Visual Studio

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PartialClasses.cs*

```
WorkingWithMVC02
WorkingWithMVC02.Models.Movie
Year

using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.ComponentModel.DataAnnotations;

namespace WorkingWithMVC02.Models
{
    public partial class Member
    {
    }

    public partial class Movie
    {
    }
}
```

Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'WorkingWithMVC02' (1 project)

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 - fonts
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 - DBModel.edmx.sql
 - MemberFavouriteMoviesVM.cs
 - MetaData.cs
 - PartialClasses.cs
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 - Views
 - favicon.ico
 - Global.asax
 - packages.config
 - Project_Readme.html
 - Web.config

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Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

PartialClasses.cs*

WorkingWithMVC02 WorkingWithMVC02.Models.Member Type

```
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.ComponentModel.DataAnnotations;

namespace WorkingWithMVC02.Models
{
    [MetadataType(typeof(MemberMetaData))]
    public partial class Member
    {
    }

    public partial class Movie
    {
    }
}
```

Solution Explorer

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Solution 'WorkingWithMVC02' (1 project)

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PartialClasses.cs* X

WorkingWithMVC02 WorkingWithMVC02.Models.Movie Year

```
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.ComponentModel.DataAnnotations;

namespace WorkingWithMVC02.Models
{
    [MetadataType(typeof(MemberMetaData))]
    public partial class Member
    {
    }

    [MetadataType(typeof(MovieMetaData))]
    public partial class Movie
    {
    }
}
```

Solution Explorer

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Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

Create.cshtml*

```
@model WorkingWithMVC02.Models.Movie

@{
    ViewBag.Title = "Create";
}



## Add New Movie



@using (Html.BeginForm())
{
    @Html.ValidationSummary();
    <br />

    <b>@Html.LabelFor(model => model.Title):</b> @Html.EditorFor(model =>
        model.Title)
    <br />

    <b>@Html.LabelFor(model => model.Year):</b> @Html.EditorFor(model =>
        model.Year)
    <br />

    <input type="submit" value="Add" />
}

@Html.ActionLink("Show Movie List", "Index")
```

Solution Explorer

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Solution 'WorkingWithMVC02' (1 project)

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Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

Create.cshtml*

```
@model WorkingWithMVC02.Models.Movie

@{
    ViewBag.Title = "Create";
}



## Add New Movie



@using (Html.BeginForm())
{
    @Html.ValidationSummary();
    <br />

    <b>@Html.LabelFor(model => model.Title):</b> @Html.EditorFor(model =>
        @Html.ValidationMessageFor(model => model.Title)
    <br />

    <b>@Html.LabelFor(model => model.Year):</b> @Html.EditorFor(model => m
    <br />

    <input type="submit" value="Add" />
}

@Html.ActionLink("Show Movie List", "Index")
```

Solution Explorer

Search Solution Explorer (Ctrl+;) Solution 'WorkingWithMVC02' (1 project) WorkingWithMVC02 Properties References App_Data App_Start Content Controllers HomeController.cs MembersController.cs MoviesController.cs fonts Models Scripts Views Home Members Movies Create.cshtml Delete.cshtml Details.cshtml Edit.cshtml Index.cshtml Shared _ViewStart.cshtml Web.config favicon.ico Global.asax packages.config

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WorkingWithMVC02 - Microsoft Visual Studio

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Quick Launch (Ctrl+Q)

Amandeep S. Patti AP

Create.cshtml*

```
@model WorkingWithMVC02.Models.Movie

@{
    ViewBag.Title = "Create";
}



## Add New Movie



@using (Html.BeginForm())
{
    @Html.ValidationSummary();
    <br />

    <b>@Html.LabelFor(model => model.Title):</b> @Html.EditorFor(model =>
        @Html.ValidationMessageFor(model => model.Title)
    <br />

    <b>@Html.LabelFor(model => model.Year):</b> @Html.EditorFor(model =>
        @Html.ValidationMessageFor(model => model.Year)
    <br />

    <input type="submit" value="Add" />
}

@Html.ActionLink("Show Movie List", "Index")
```

Solution Explorer

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Solution 'WorkingWithMVC02' (1 project)

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Ready

Create - My ASP.NET App

localhost:8659/Movies/Create

Application name Home About Contact Members Movies

Add New Movie

Movie Title:

Movie Release Year:

[Add](#)

[Show Movie List](#)

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Create - My ASP.NET App

localhost:8659/Movies/Create

Application name Home About Contact Members Movies

Add New Movie

- Movie Title is Required.
- Movie Release Year is Required.

Movie Title: Movie Title is Required.

Movie Release Year: Movie Release Year is Required.

[Add](#)

[Show Movie List](#)

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Create - My ASP.NET App

localhost:8659/Movies/Create

Application name Home About Contact Members Movies

Add New Movie

- Movie Release Year must be between 1900 and 2017.

Movie Title:

Movie Release Year: Movie Release Year must be between 1900 and 2017.

[Add](#)

[Show Movie List](#)

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Create - My ASP.NET App

localhost:8659/Members/Create

Application name Home About Contact Members Movies

Create

Member

Member First Name

Last Name

Type

[Back to List](#)

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Create - My ASP.NET App

localhost:8659/Members/Create

Application name Home About Contact Members Movies

Create

Member

Member First Name Member First Name is Required.

Last Name Member Last Name is Required.

Type

Create

[Back to List](#)

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Create - My ASP.NET App

localhost:8659/Members/Create

Application name Home About Contact Members Movies

Create

Member

Member First Name

Last Name
The field LastName must be a string with a minimum length of 2 and a maximum length of 15.

Type

[Back to List](#)

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http://localhost:8659/Members/Create

