

# ASP MVC

$v^*$

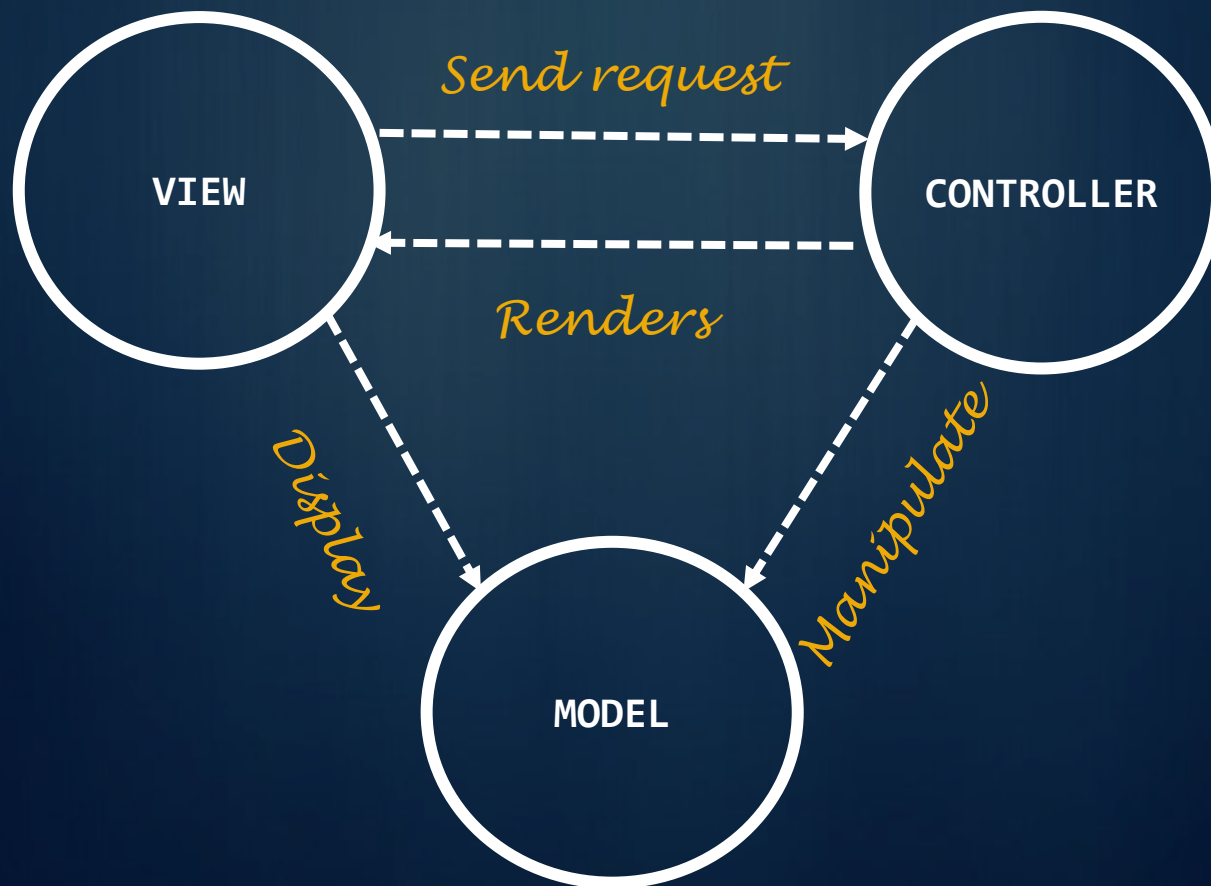
# В чем основная идея?

MVC Model – View – Controller который переводят как Модель – Представление – Контроллер является миксом использования шаблонов проектирования, который позволяет отделить domain-ую модель приложения от пользовательского интерфейса и при этом взаимодействие с пользователем разделены на три компоненты, которые минимально зависят друг от друга, так чтобы можно было менять какие-то составляющие.

# В чем основная идея?

ASP.NET MVC является фреймворком для разработки от Microsoft, который сочетает в себе эффективность и аккуратность архитектуры MVC, самые современные идеи и методы гибкой разработки и лучшие свойства существующей платформы ASP.NET

# Model – View – Controller



# Model – ProjectArchitectureDemo

- ORM
  - Properties
  - References
  - EntityModel.cs
  - packages.config
  - Role.cs
  - User.cs

```
public partial class Role
{
    0 references
    public Role()
    {
        Users = new HashSet<User>();
    }

    0 references
    public int Id { get; set; }

    [Required]
    0 references
    public string Name { get; set; }

    0 references
    public string Description { get; set; }

    1 reference
    public virtual ICollection<User> Users { get; set; }
}
```

```
public partial class User
{
    2 references
    public int Id { get; set; }

    [Required]
    2 references
    public string Name { get; set; }

    2 references
    public int RoleId { get; set; }

    0 references
    public virtual Role Role { get; set; }
}
```

# Model – ProjectArchitectureDemo

- ORM
  - Properties
  - References
  - EntityModel.cs
  - packages.config
  - Role.cs
  - User.cs

```
public partial class Role
{
    0 references
    public Role()
    {
        Users = new HashSet<User>();
    }

    0 references
    public int Id { get; set; }

    [Required]
    0 references
    public string Name { get; set; }

    0 references
    public string Description { get; set; }

    1 reference
    public virtual ICollection<User> Users { get; set; }
}
```

```
public partial class User
{
    2 references
    public int Id { get; set; }

    [Required]
    2 references
    public string Name { get; set; }

    2 references
    public int RoleId { get; set; }

    0 references
    public virtual Role Role { get; set; }
}
```

# Model – ProjectArchitectureDemo

- ▲ [C#] DAL
  - ▷ Properties
  - ▷ References
  - ▲ Concrete
    - ▷ [C#] UnitOfWork.cs
    - ▷ [C#] UserRepository.cs
    - ψ App.config
    - ψ packages.config
- ▲ [C#] DAL.Interface
  - ▷ Properties
  - ▷ References
  - ▲ DTO
    - ▷ [C#] DalRole.cs
    - ▷ [C#] DalUser.cs
    - ▷ [C#] IEntity.cs
  - ▲ Repository
    - ▷ [C#] IRepository.cs
    - ▷ [C#] IUnitOfWork.cs
    - ▷ [C#] IUserRepository.cs
    - ψ App.config
    - ψ packages.config

```
namespace DAL.Interface.DTO
```

```
{
```

```
    0 references
```

```
    public class DalRole : IEntity
```

```
    {
```

```
        7 references
```

```
        public int Id { get; set; }
```

```
        0 references
```

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

```
        0 references
```

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

```
    }
```

```
}
```

```
namespace DAL.Interface.DTO
```

```
{
```

```
    13 references
```

```
    public class DalUser : IEntity
```

```
    {
```

```
        7 references
```

```
        public int Id { get; set; }
```

```
        6 references
```

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

```
        5 references
```

```
        public int RoleId { get; set; }
```

```
    }
```

```
}
```



# Model – ProjectArchitectureDemo

- ▲ [C#] DAL
  - ▷ Properties
  - ▷ References
  - ▲ Concrete
    - ▷ [C#] UnitOfWork.cs
    - ▷ [C#] UserRepository.cs
    - ψ App.config
    - ψ packages.config
- ▲ [C#] DAL.Interface
  - ▷ Properties
  - ▷ References
  - ▲ DTO
    - ▷ [C#] DalRole.cs
    - ▷ [C#] DalUser.cs
    - ▷ [C#] IEntity.cs
  - ▲ Repository
    - ▷ [C#] IRepository.cs
    - ▷ [C#] IUnitOfWork.cs
    - ▷ [C#] IUserRepository.cs
    - ψ App.config
    - ψ packages.config

```
namespace DAL.Interface.DTO
```

```
{
```

```
    0 references
```

```
    public class DalRole : IEntity
```

```
    {
```

```
        7 references
```

```
        public int Id { get; set; }
```

```
        0 references
```

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

```
        0 references
```

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

```
    }
```

```
}
```

```
namespace DAL.Interface.DTO
```

```
{
```

```
    13 references
```

```
    public class DalUser : IEntity
```

```
    {
```

```
        7 references
```

```
        public int Id { get; set; }
```

```
        6 references
```

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

```
        5 references
```

```
        public int RoleId { get; set; }
```

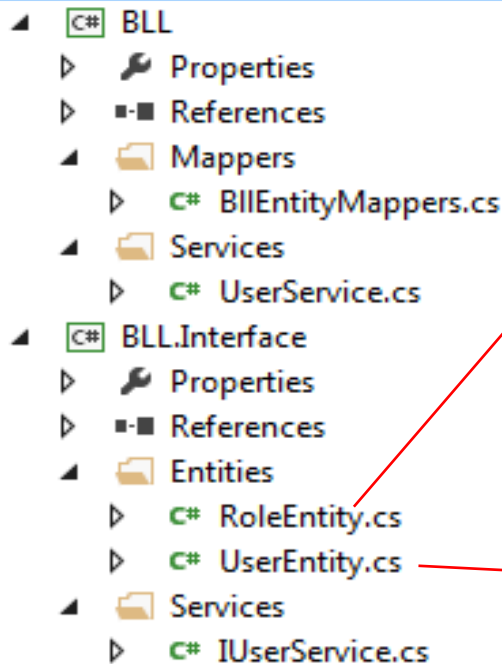
```
    }
```

```
}
```





# Model – ProjectArchitectureDemo



```
namespace BLL.Interface.Entities
```

```
{
```

```
    0 references
```

```
    public class RoleEntity
```

```
    {
```

```
        0 references
```

```
        public int Id { get; set; }
```

```
        0 references
```

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

```
        0 references
```

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

```
    }
```

```
}
```

```
namespace BLL.Interface.Entities
```

```
{
```

```
    16 references
```

```
    public class UserEntity
```

```
    {
```

```
        4 references
```

```
        public int Id { get; set; }
```

```
        5 references
```

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

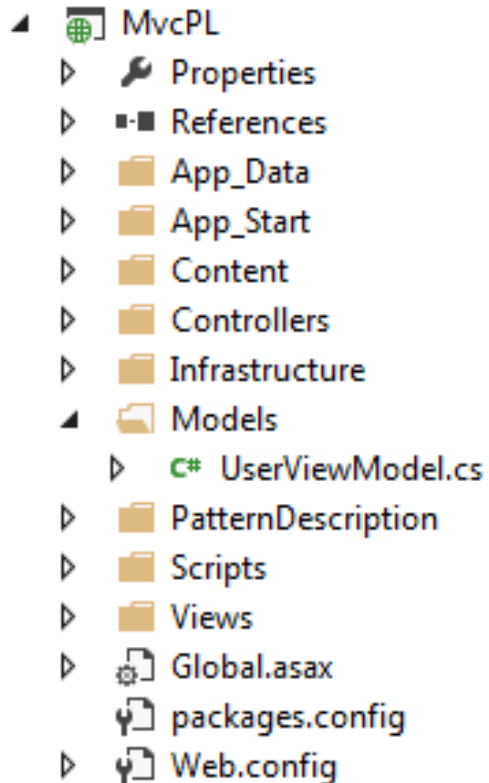
```
        4 references
```

```
        public int RoleId { get; set; }
```

```
    }
```

```
}
```

# Model – ProjectArchitectureDemo

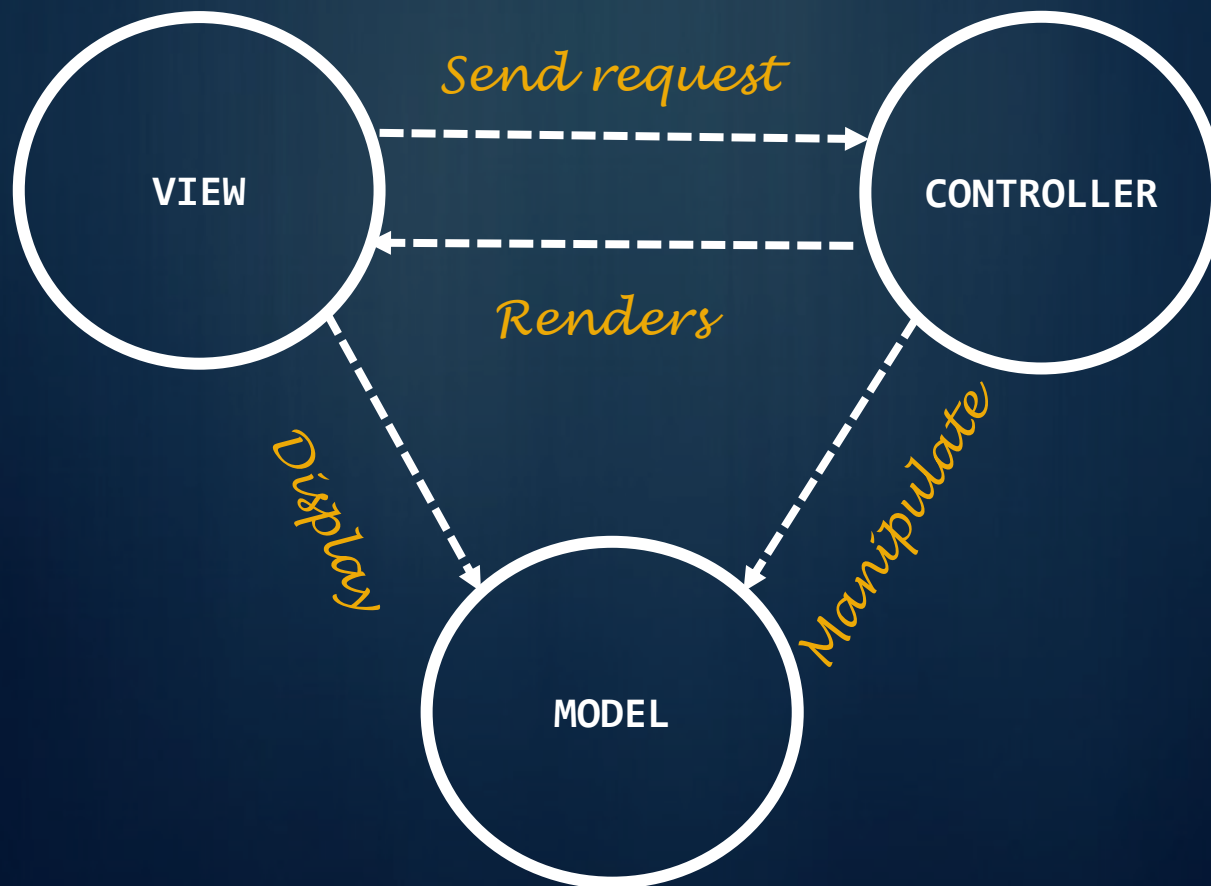


```
namespace MvcPL.Models
{
    2 references
    public enum Role
    {
        Administrator = 1,
        Moderator,
        User,
        Guest
    }

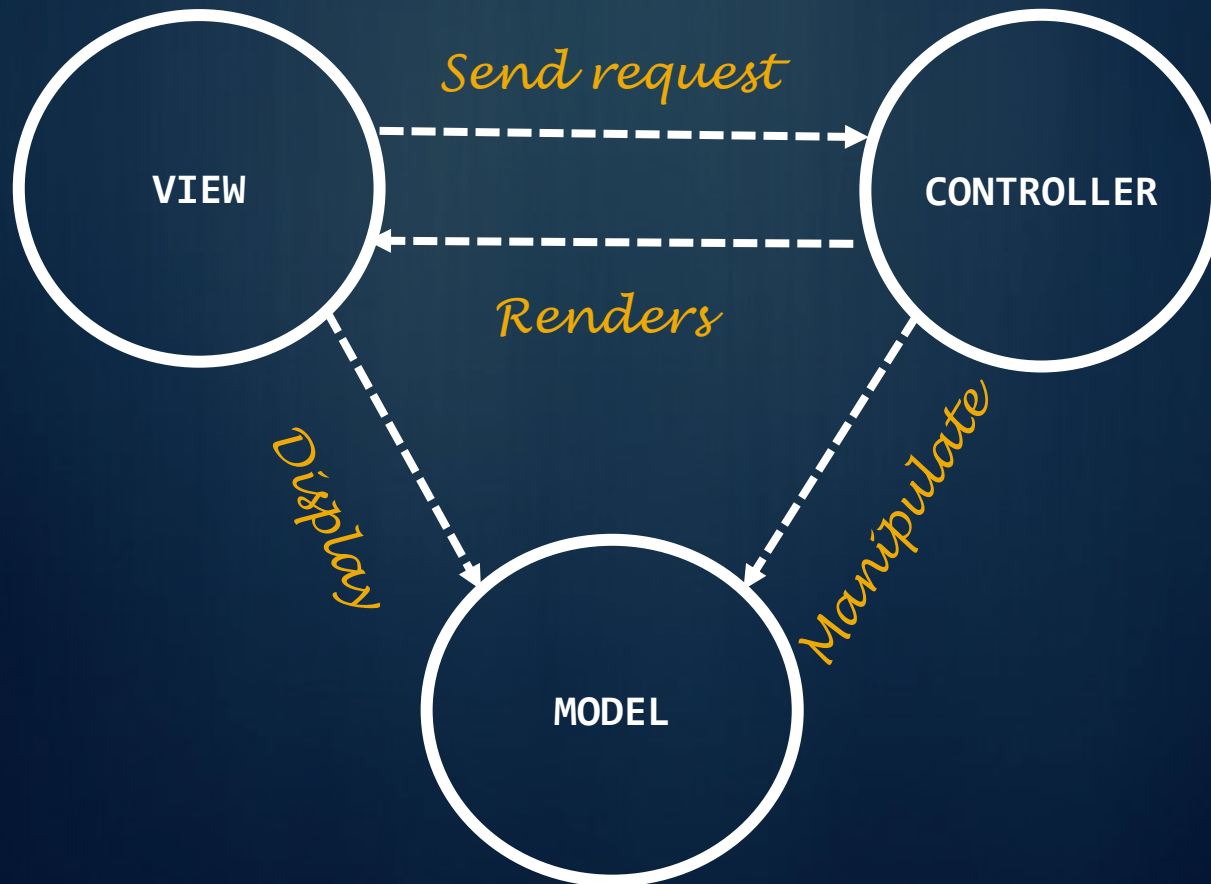
    4 references
    public class UserViewModel
    {
        2 references
        public int Id { get; set; }
        [Display(Name = "User name")]
        2 references
        public string UserName { get; set; }
        2 references
        public Role Role { get; set; }
    }
}
```



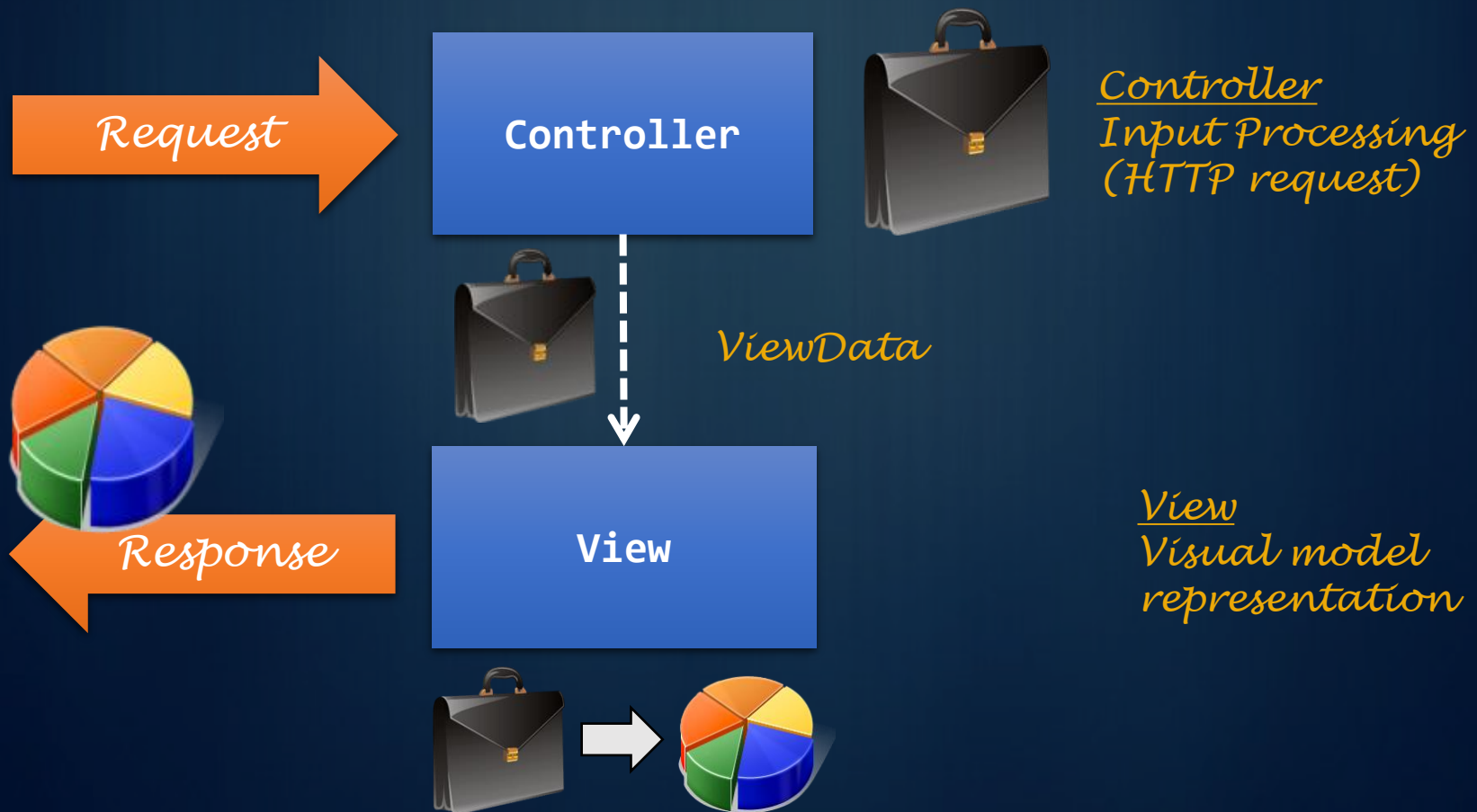
# Model – View – Controller



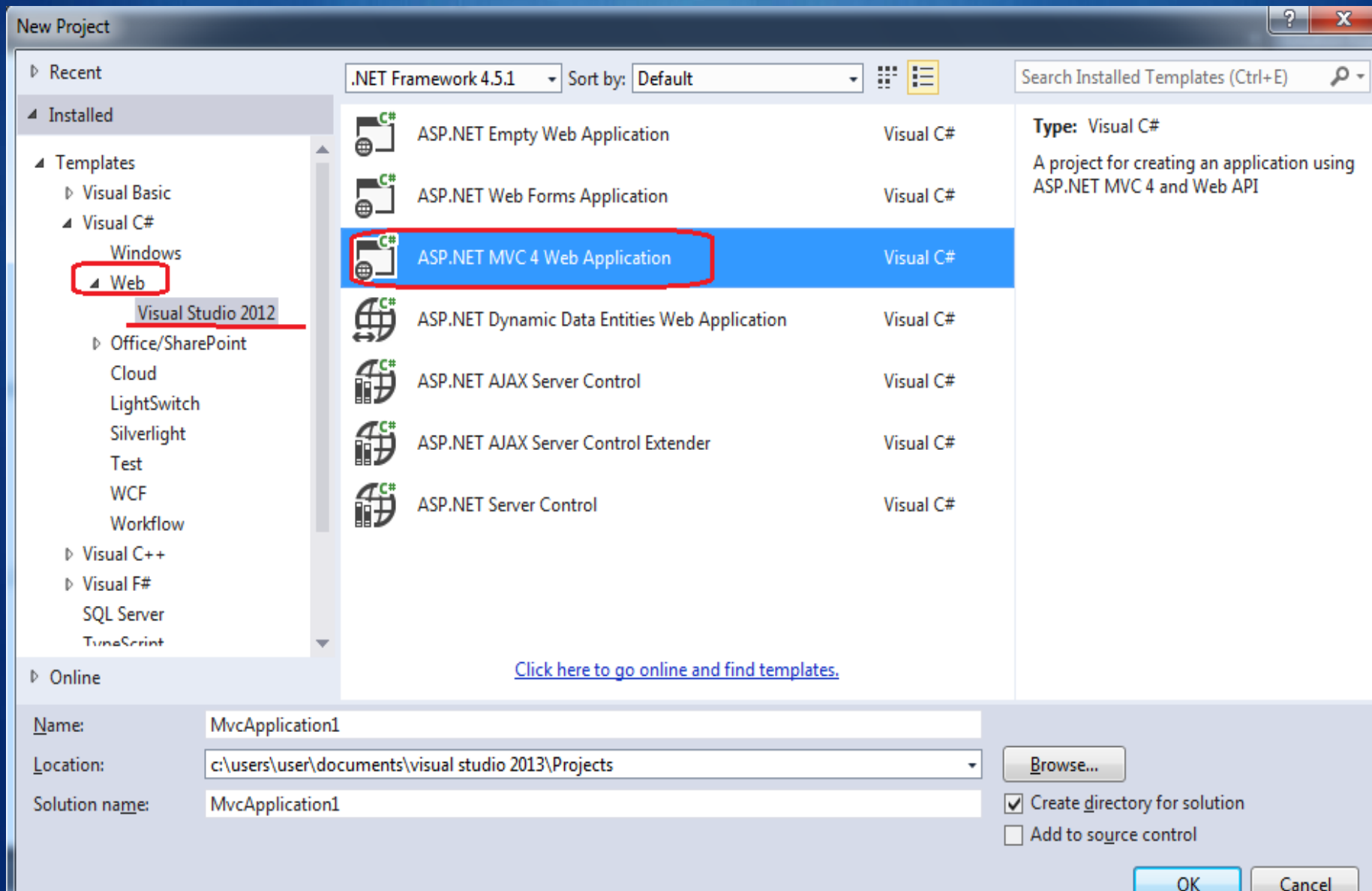
# Model – View – Controller



# ASP.NET реализация паттерна MVC



# Структура MVC 4 приложения



## Project Template

Select a template:



Empty



Basic



Internet  
Application



Intranet  
Application



Mobile  
Application



Web API



Single Page  
Application



Facebook  
Application

Description:

A basic ASP.NET MVC 4 project.

View engine:

Razor

☐ Create a unit test project

Test project name:

MvcApplication1.Tests

Test framework:

Visual Studio Unit Test

Additional Info



## New ASP.NET Project - WebApplication4

Select a template:

### ASP.NET 4.5.2 Templates



Empty



Web Forms



MVC



Web API



Single Page Application



Azure 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: WebApplication4.Tes

Change Authentication

Change Authentication

☒ No Authentication

☐ Individual User Accounts

☐ Work And School Accounts

☐ Windows Authentication

For applications that don't require any user authentication.

[Learn more](#)

OK

Cancel



## Solution 'MvcApplicationBase' (1 project)



### **MvcApplicationBase**



Properties



References



App\_Data



App\_Start



Content



Controllers



Models



Scripts



Views



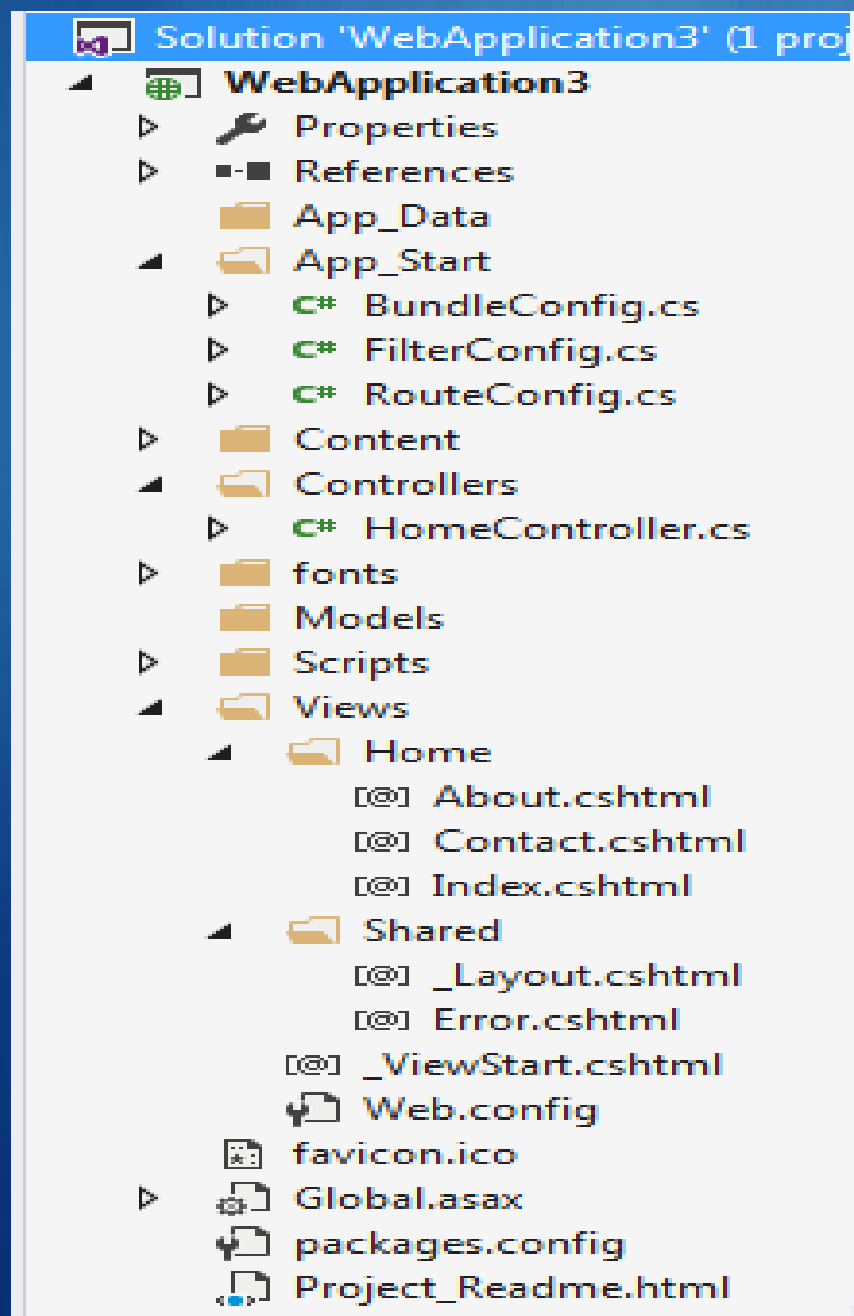
Global.asax



packages.config

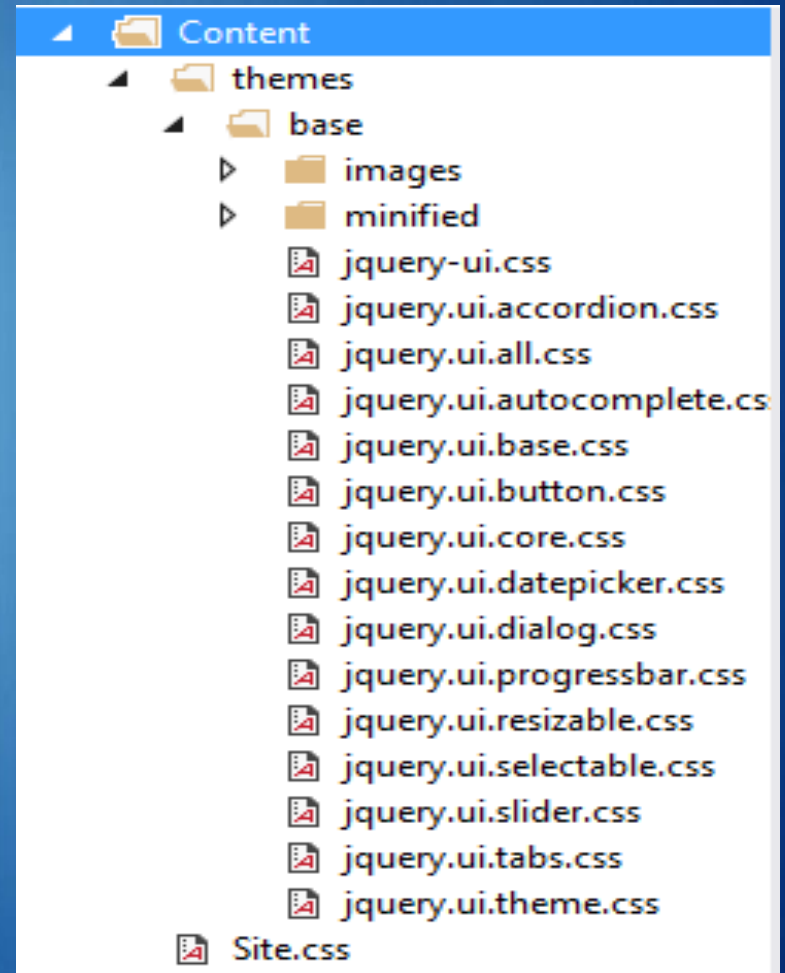
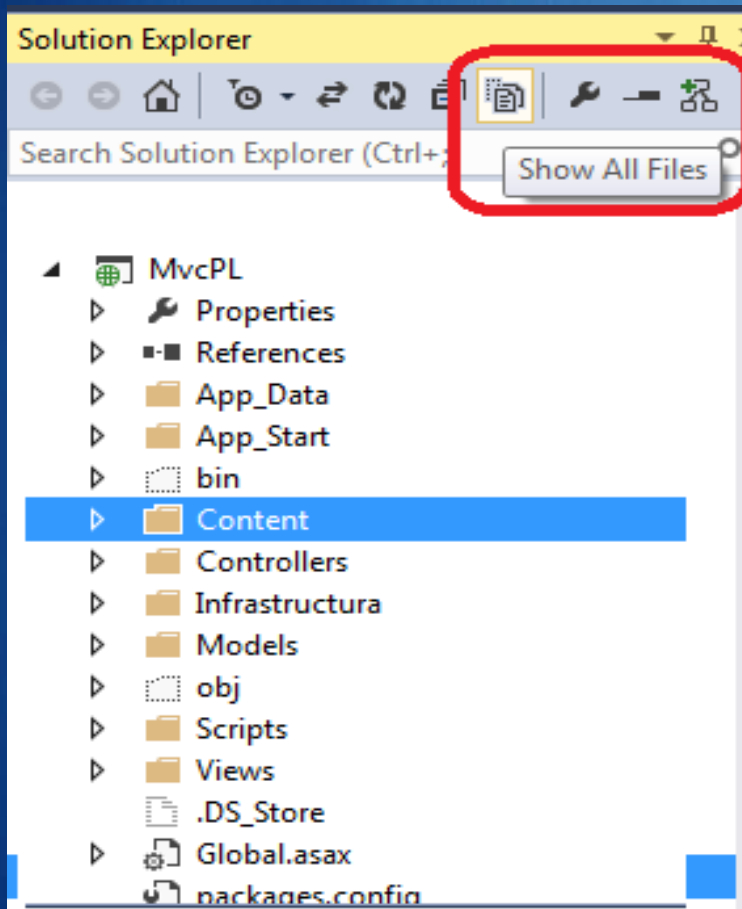


Web.config



# Папки и файлы

<b>/App_Data</b>	Папка для хранения приватных данных, таких как XML, файлы или баз-данных, если используется SQL Server Express, SQLite	IIS не будет сохранять содержимое этой папки
<b>/bin</b>	Здесь находятся скомпилированные сборки MVC приложения, которые не входят в GAC	IIS не будет сохранять содержимое этой папки
<b>/Content</b>	Папка для хранения статического контента, такого как CSS файлы и картинки	Это соглашение, но не обязательное
<b>/Controllers</b>	Папка для контроллеров	Это соглашение



# Папки и файлы

## /Models

Папка для view-моделей и классов доменной модели

Это соглашение, однако лучше помещать доменную модель в отдельный проект

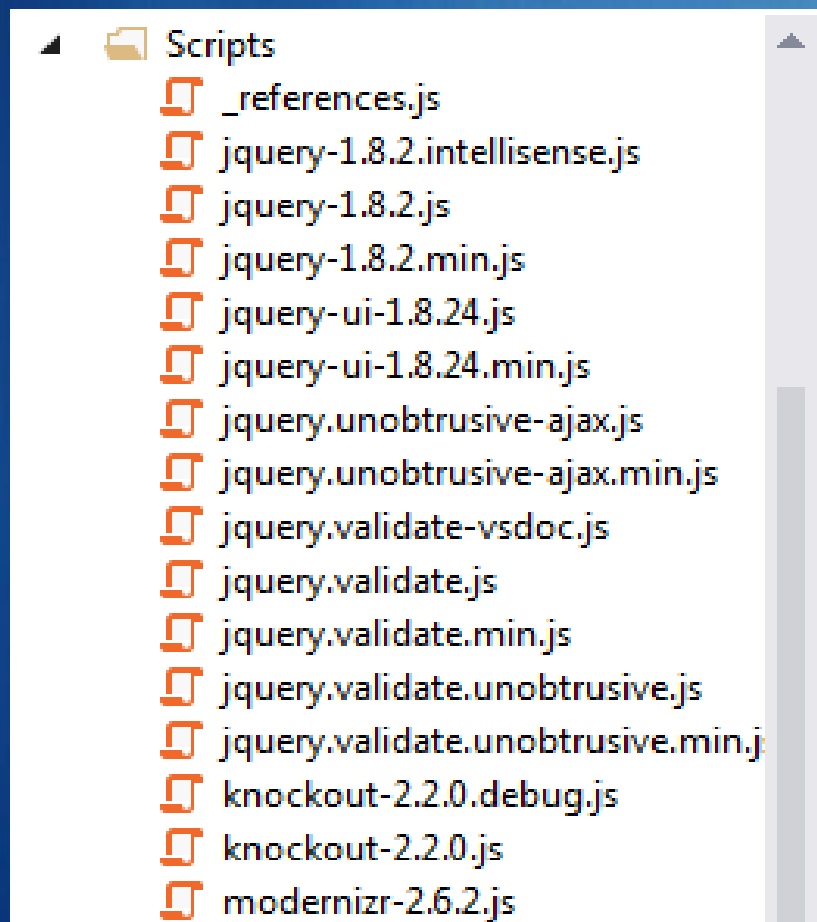
## /Scripts

Папка для JavaScript библиотек и собственных скриптов MVC приложения

Это соглашение

## /Views

Папка для представлений и частичных представлений, обычно сгруппированы вместе в папки, названия которых совпадают с именами соответствующих им контроллеров



# Папки и файлы

`/Views/Shared`

`/Views/Shared` – папка для layout-файлов и представлений, которые не специфичны для одного контроллера

`/Views/Web.config`

`/Views/Web.config` содержит настройки, необходимые для того, чтобы представления работали с ASP.NET

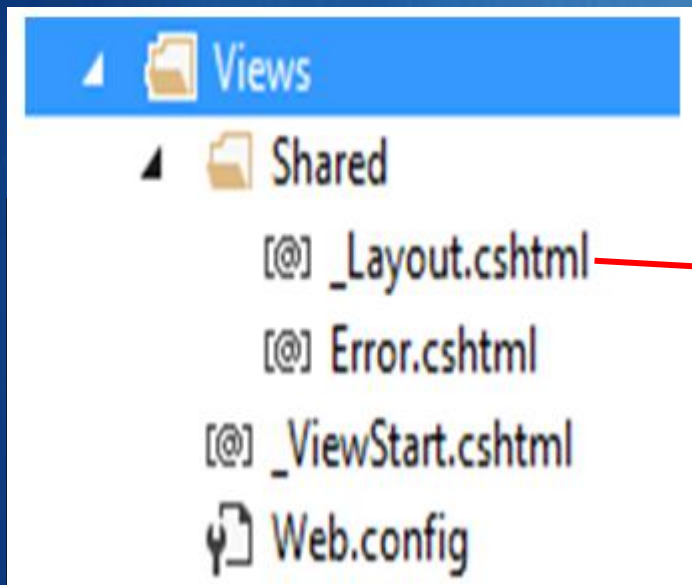
`/Global.asax`

Глобальный класс ASP.NET приложения

`/Web.config`

Конфигурационный файл для вашего приложения

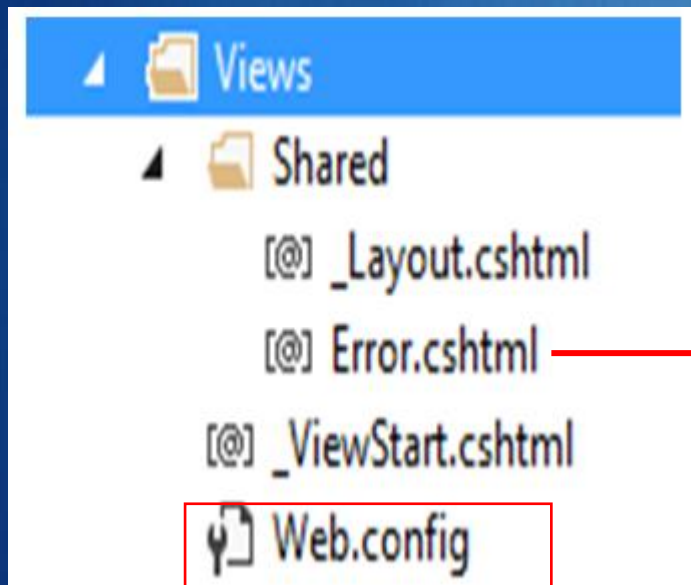




```
_Layout.cshtml*  -  X

<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width" />
    <title>@ViewBag.Title</title>
    @Styles.Render("~/Content/css")
    @Scripts.Render("~/bundles/modernizr")
</head>
<body>
    @RenderBody()

    @Scripts.Render("~/bundles/jquery")
    @RenderSection("scripts", required: false)
</body>
</html>
```



Error.cshtml\* [icon] X

```
@{
    Layout = null;
}

<!DOCTYPE html>
<html>
<head>
    <meta name="viewport" content="width=device-width"/>
    <title>Error</title>
</head>
<body>
<hgroup>
    <h1>Error.</h1>
    <h2>An error occurred while processing your request.</h2>
</hgroup>
</body>
</html>
```

```
namespace MvcApplicationBase
```

```
{
```

```
    // Note: For instructions on enabling IIS6 or IIS7 classic mode,  
    // visit http://go.microsoft.com/?LinkId=9394801
```

```
    References
```

```
    public class MvcApplication : System.Web.HttpApplication
```

```
    {
```

```
        References
```

```
        protected void Application_Start()
```

```
        {
```

```
            AreaRegistration.RegisterAllAreas();
```

```
            WebApiConfig.Register(GlobalConfiguration.Configuration);  
            FilterConfig.RegisterGlobalFilters(GlobalFilters.Filters);  
            RouteConfig.RegisterRoutes(RouteTable.Routes);  
            BundleConfig.RegisterBundles(BundleTable.Bundles);
```

```
        }
```

```
    }
```

```
}
```

- ▲ App\_Start
  - ▷ C# BundleConfig.cs
  - ▷ C# FilterConfig.cs
  - ▷ C# RouteConfig.cs
  - ▷ C# WebApiConfig.cs
- ▷ Content
- ▷ Controllers
- ▷ Models
- ▷ Scripts
- ▷ Views
- ▷ Global.asax
- ▷ packages.config
- ▷ Web.config

RouteConfig.cs Test.cshtml Index.cshtml HomeController.cs

MvcApplication2.RouteConfig RegisterRoutes(RouteCollection routes)

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.Mvc;
using System.Web.Routing;

namespace MvcApplication2
{
    1 reference
    public class RouteConfig
    {
        1 reference
        public static void RegisterRoutes(RouteCollection routes)
        {
            routes.IgnoreRoute("{resource}.axd/{*pathInfo}");

            routes.MapRoute(
                name: "Default",
                url: "{controller}/{action}/{id}",
                defaults: new { controller = "Home", action = "Index", id = UrlParameter.Optional }
            );
        }
    }
}

```

Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'MvcApplication2' (1 project)

- MvcApplication2
  - Properties
  - References
  - App\_Data
  - App\_Start
    - BundleConfig.cs
    - FilterConfig.cs
    - RouteConfig.cs
    - WebApiConfig.cs
  - Content
  - Controllers
    - HomeController.cs
  - Models
  - Scripts
  - Views
    - Home
      - Index.cshtml
      - Test.cshtml
  - Shared

Не удалось найти данные X

localhost:1368

Ошибка сервера в приложении '/'.  
*Не удалось найти данный ресурс.*

Описание: HTTP 404. Возможно, искомый ресурс (или одна из его зависимостей) удален, получил другое имя или временно недоступен. Просмотрите следующий URL-адрес и проверьте, что он введен правильно.

Запрошенный URL: /

Информация о версии: Платформа Microsoft .NET Framework, версия:4.0.30319; ASP.NET, версия:4.6.81.0

Solution 'MvcApplicationBase' (1 project)

MvcApplicationBase

- Properties
- References
- App\_Data
- App\_Start
- Content
- Controllers**
- Models
- Scripts
- Views
- Global.asax
- packages.config
- Web.config

Select a template:



Empty



Basic



Internet  
Application



Intranet  
Application



Mobile  
Application



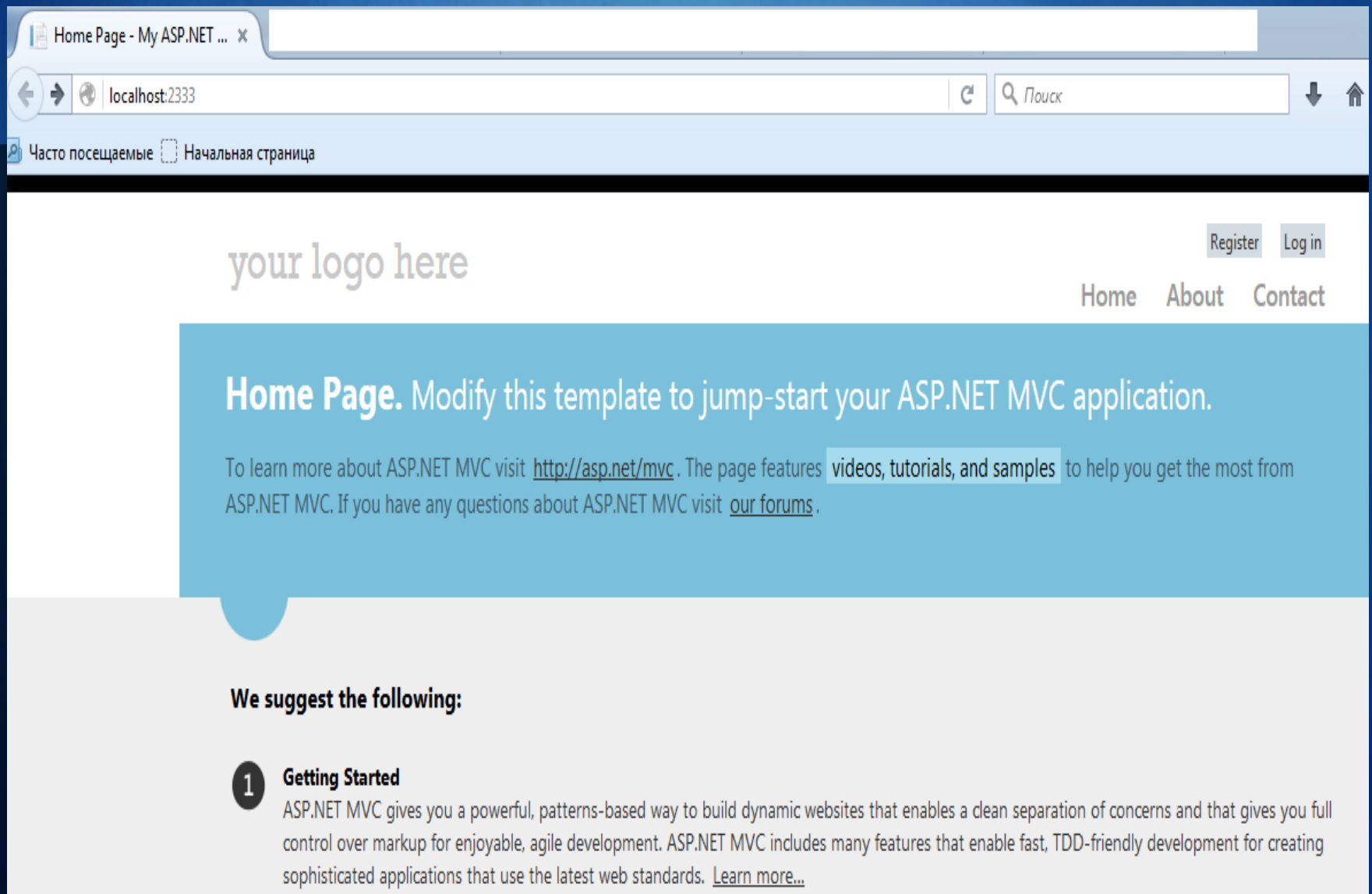
Web API

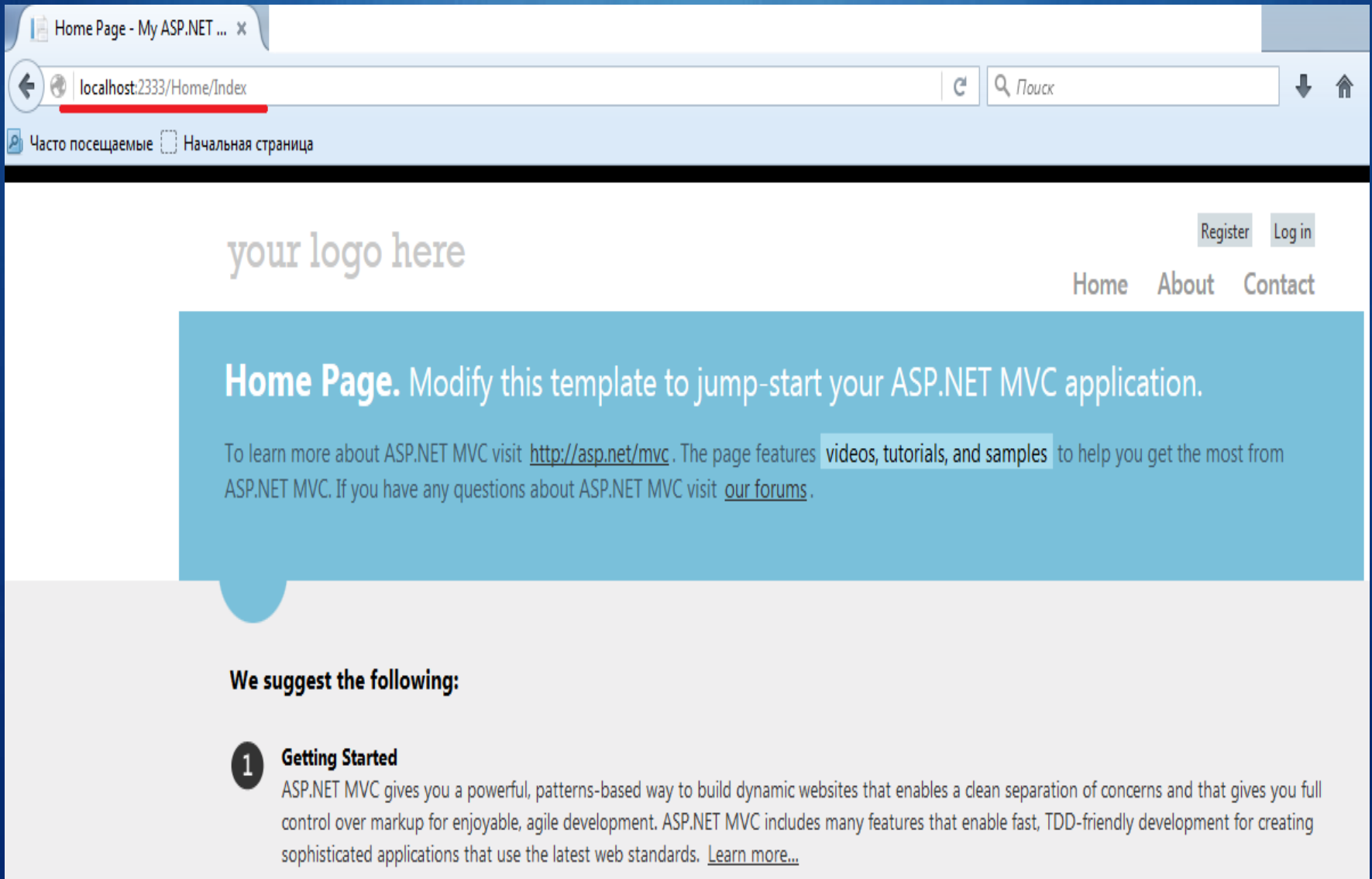


Single Page  
Application

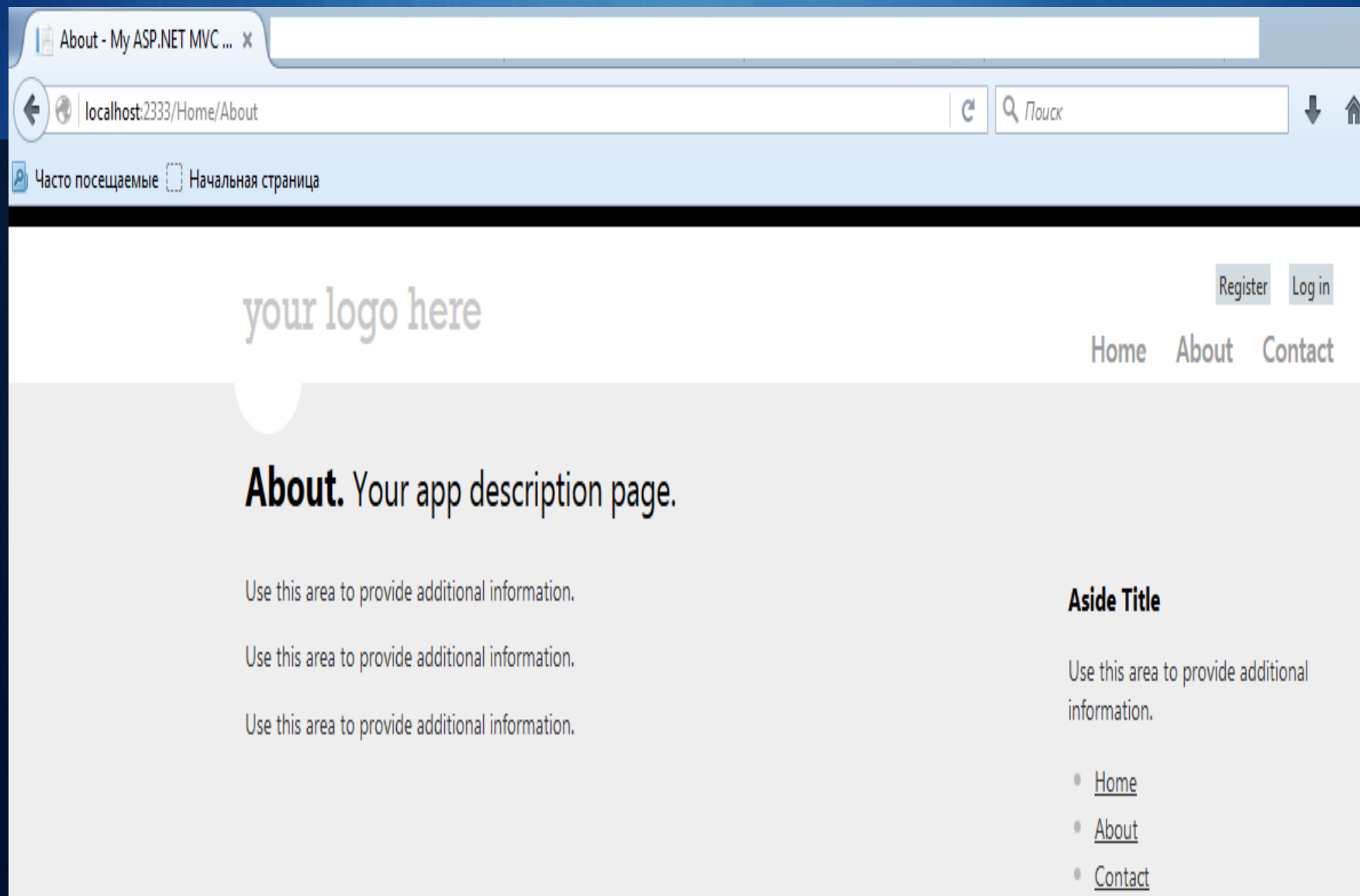


Facebook  
Application









# Соглашения именования

По умолчанию приложения ASP.NET MVC основываются на некоторых соглашениях, позволяя разработчикам избежать излишней конфигурации:

- Название класса контроллера должно заканчиваться на **Controller**. Например, HomeController, AccountController.
- Представления располагаются в папке **Views/[Название контроллера]**.
- Название представления по умолчанию совпадает с названием **action-метода**.
- Когда MVC Framework выполняет поиск необходимого представления, он сначала ищет его в папке, соответствующей контроллеру, а потом в папке **Shared**.
- Layout-файлы должны начинаться с нижнего подчеркивания и находиться в папке **Shared**.



```
public class HomeController : Controller
```

```
{
```

0 references

```
public ActionResult Index()
```

```
{
```

```
    ViewBag.Message = "Modify this template to jump-start your ASP.NET MVC application.";
```

```
    return View();
```

```
}
```

0 references

```
public ActionResult About()
```

```
{
```

```
    ViewBag.Message = "Your app description page.";
```

```
    return View();
```

```
}
```

0 references

```
public ActionResult Contact()
```

```
{
```

```
    ViewBag.Message = "Your contact page.";
```

```
    return View();
```

```
}
```

```
}
```

- ▲ Controllers
  - ▶ AccountController.cs
  - ▶ HomeController.cs

- ▶ Filters
- ▶ Images
- ▶ Models
- ▶ Scripts
- ▲ Views
  - ▶ Account

- ▲ Home
  - [@] About.cshtml
  - [@] Contact.cshtml
  - [@] Index.cshtml

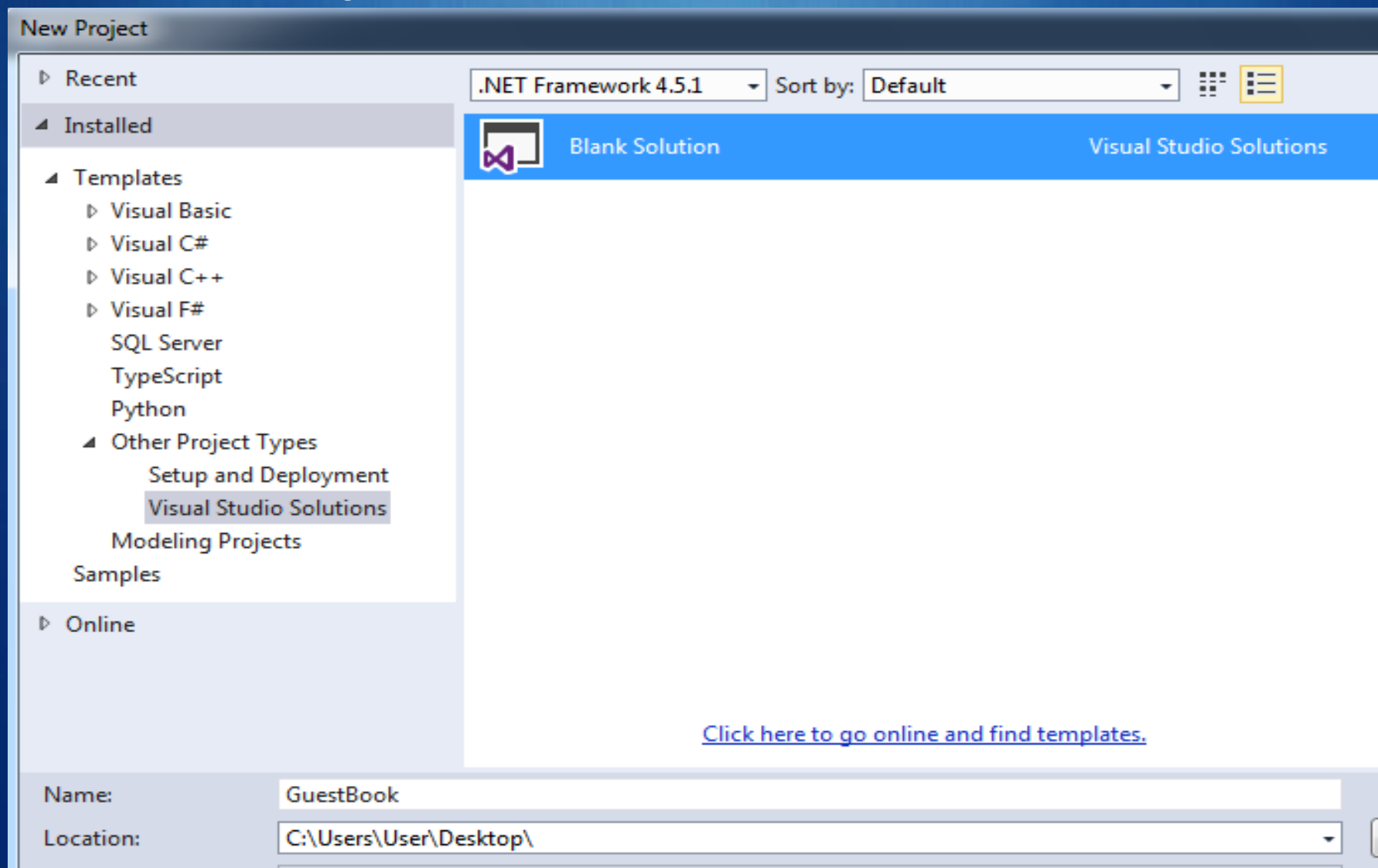
- ▶ Shared
  - [@] \_ViewStart.cshtml
- 📄 Web.config
- 🖼️ favicon.ico

# Создание первого приложения

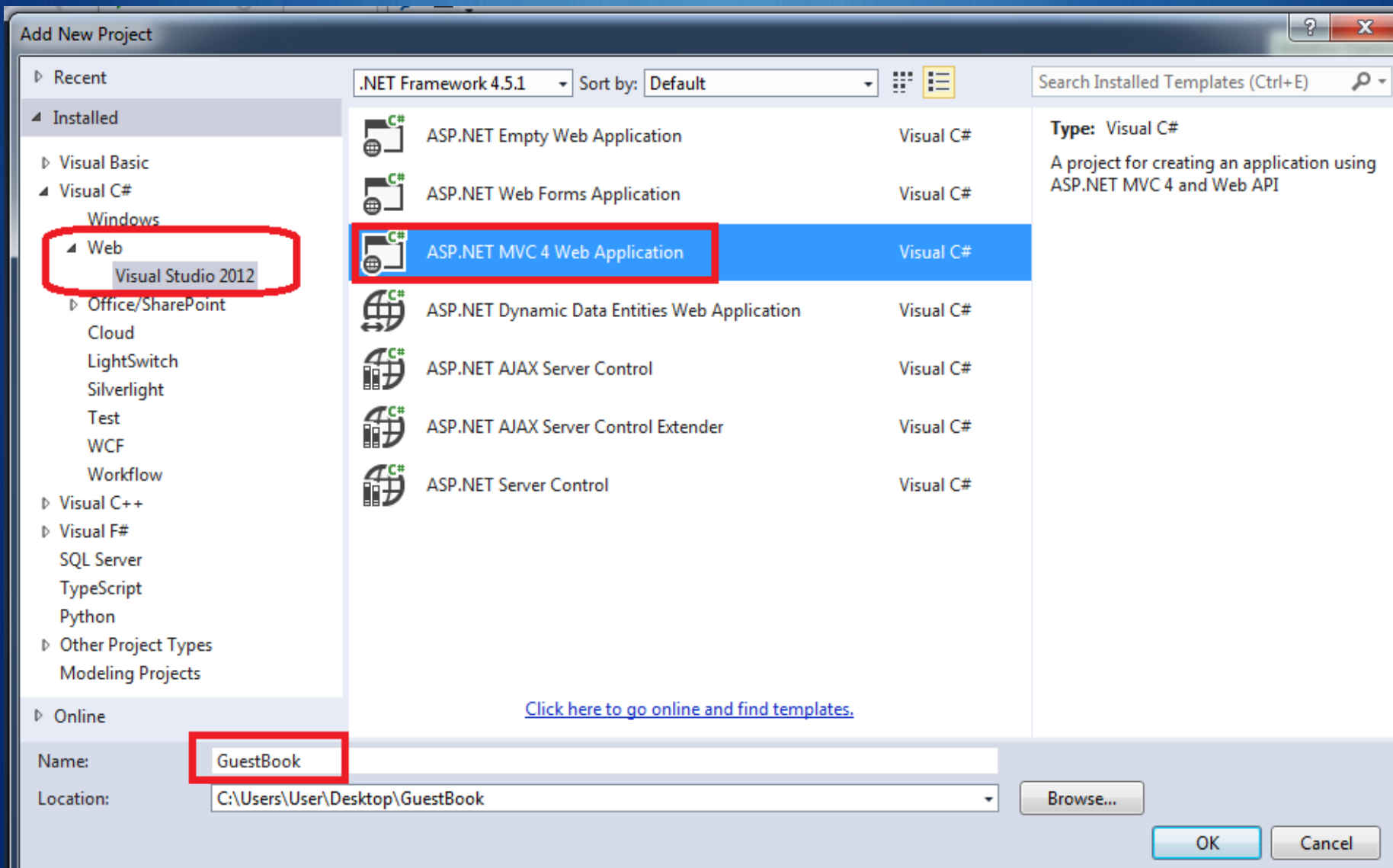


Example

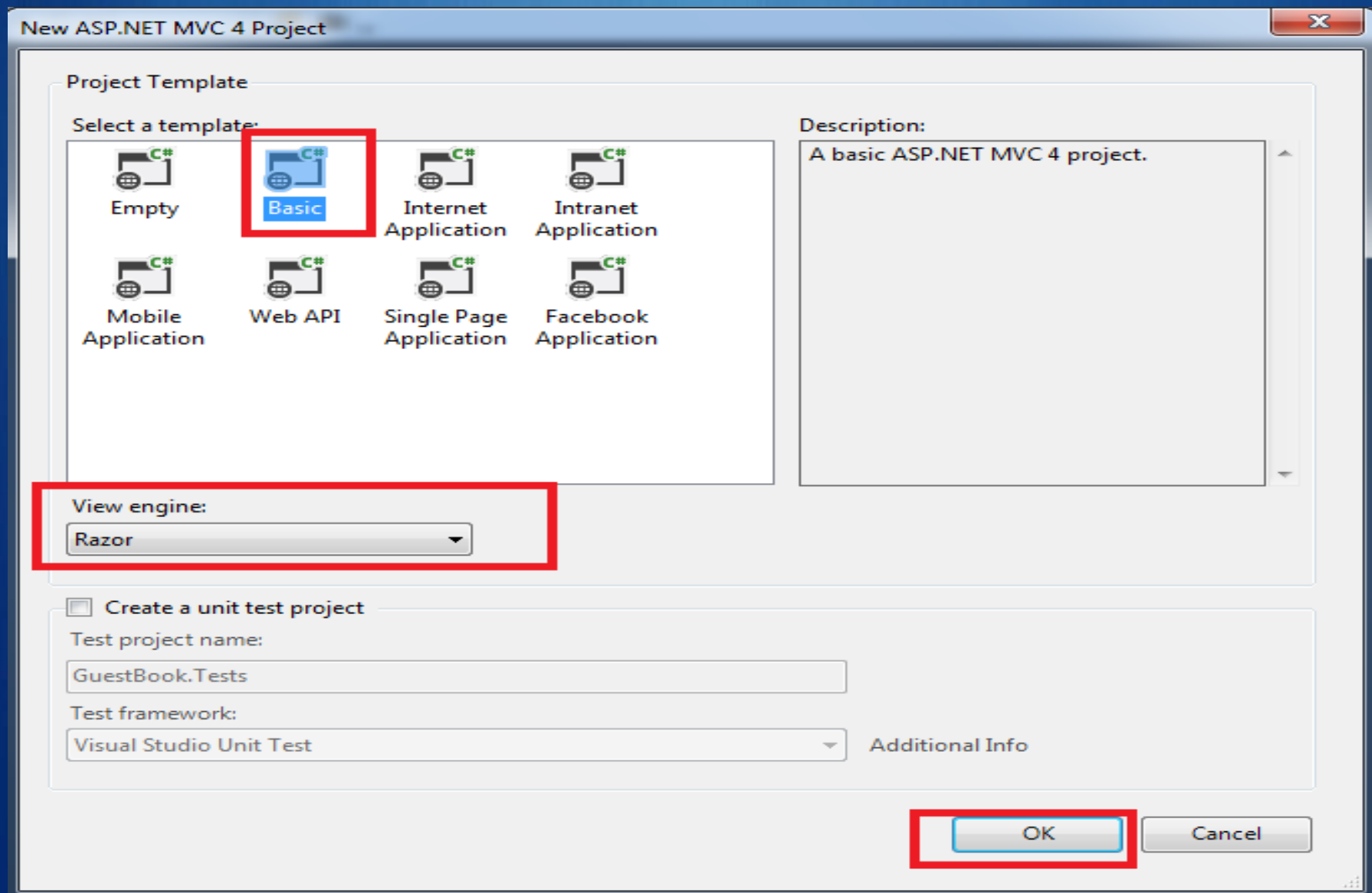
# Создаем пустой Solution GuestBook

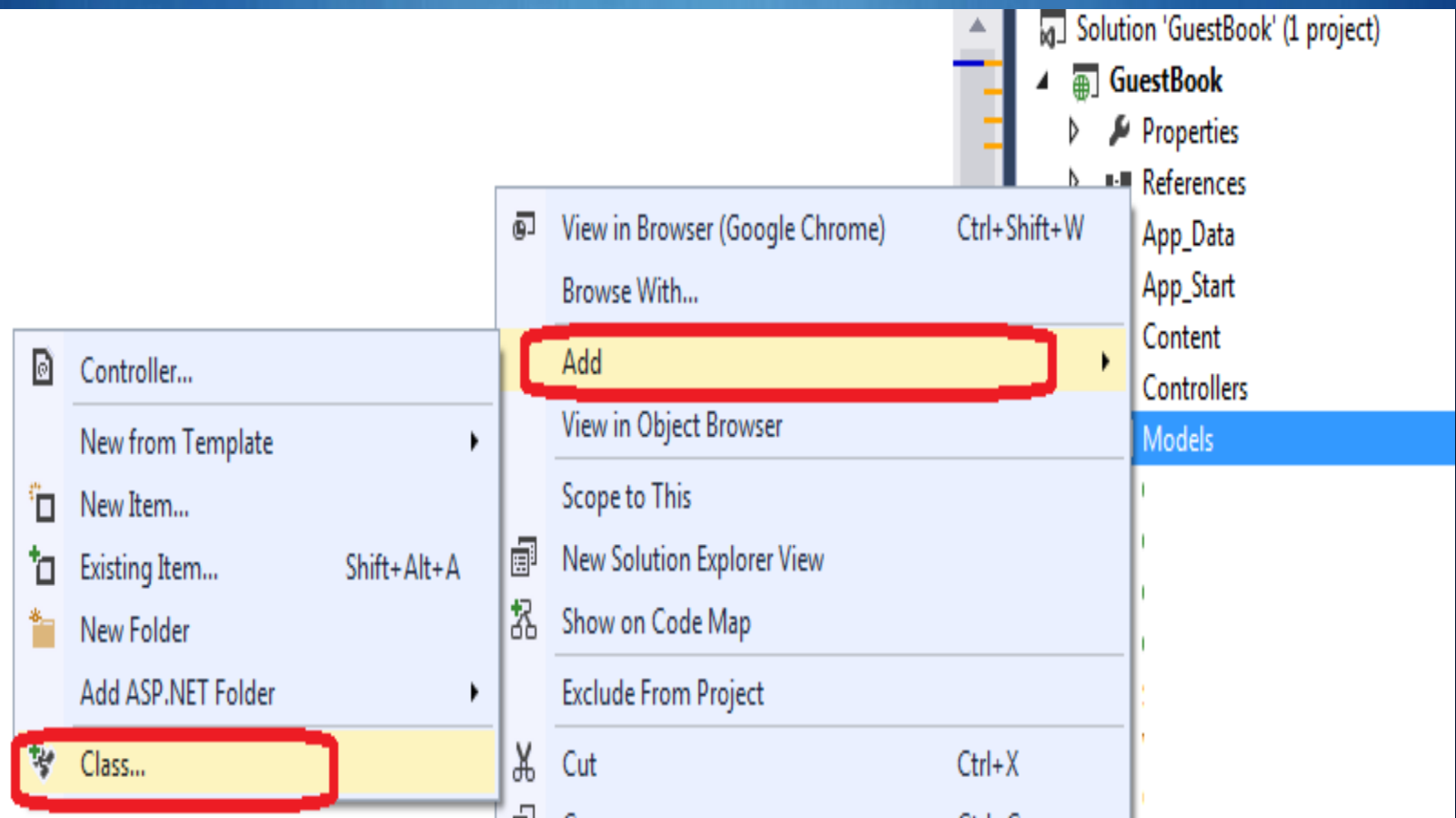


# Создаем ASP. Net MVC приложение



# Выбор шаблон по которому создается MVC проект


















Installed

- Visual C#
  - Code
  - Data
  - General
  - Web
  - Windows Forms
  - WPF
  - Silverlight
  - SQL Server
  - Workflow
- Online

Sort by: Default

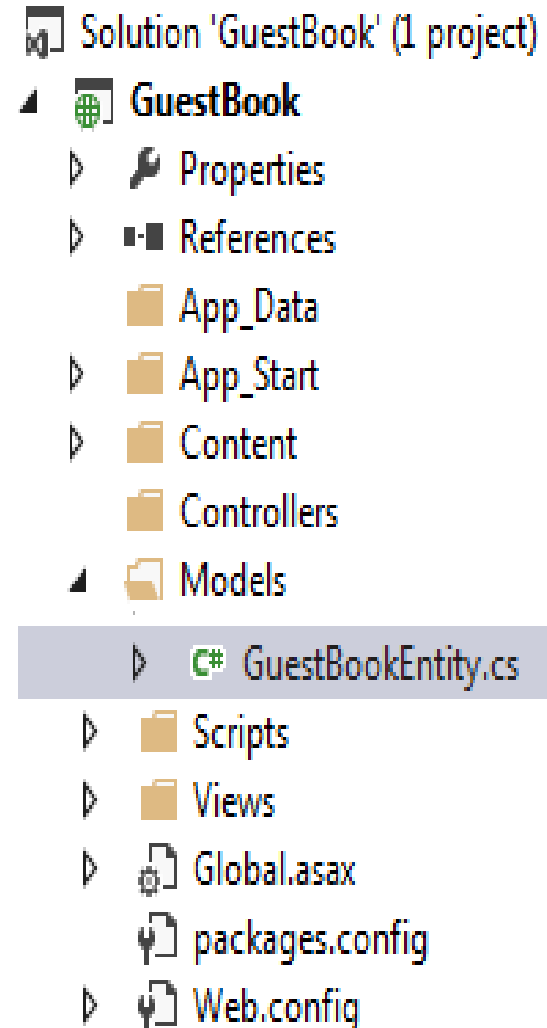
	MVC 4 Layout Page (Razor)	Visual C#
	MVC 4 Partial Page (Razor)	Visual C#
	MVC 4 View Page (Razor)	Visual C#
	MVC 4 View Page with Layout (Razor)	Visual C#
	MVC 4 View Content Page (ASPX)	Visual C#
	MVC 4 View Master Page (ASPX)	Visual C#
	MVC 4 View Page (ASPX)	Visual C#
	MVC 4 View User Control (ASPX)	Visual C#
	Class	Visual C#
	Interface	Visual C#
	ADO.NET Entity Data Model	Visual C#

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

Name: GuestBookEntity.cs

## 1\_ GuestBookEntity.txt

```
namespace GuestBook.Models
{
    0 references
    public class GuestBookEntity
    {
        0 references
        public int Id { get; set; }
        0 references
        public string Name { get; set; }
        0 references
        public string Message { get; set; }
        0 references
        public DateTime DateAdd { get; set; }
    }
}
```



## 2\_ GuestBookContext.txt

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

namespace GuestBook.Models
{
    1 reference
    public class GuestBookContext:DbContext
    {
        0 references
        public GuestBookContext()
            : base("GuestBookBD")
        {
        }

        0 references
        public DbSet<GuestBookEntity> Entries { get; set; }
    }
}
```

Solution 'GuestBook' (1 project)

GuestBook

Properties

References

App\_Data

App\_Start

Content

Controllers

Models

GuestBookContext.cs

GuestBookEntity.cs

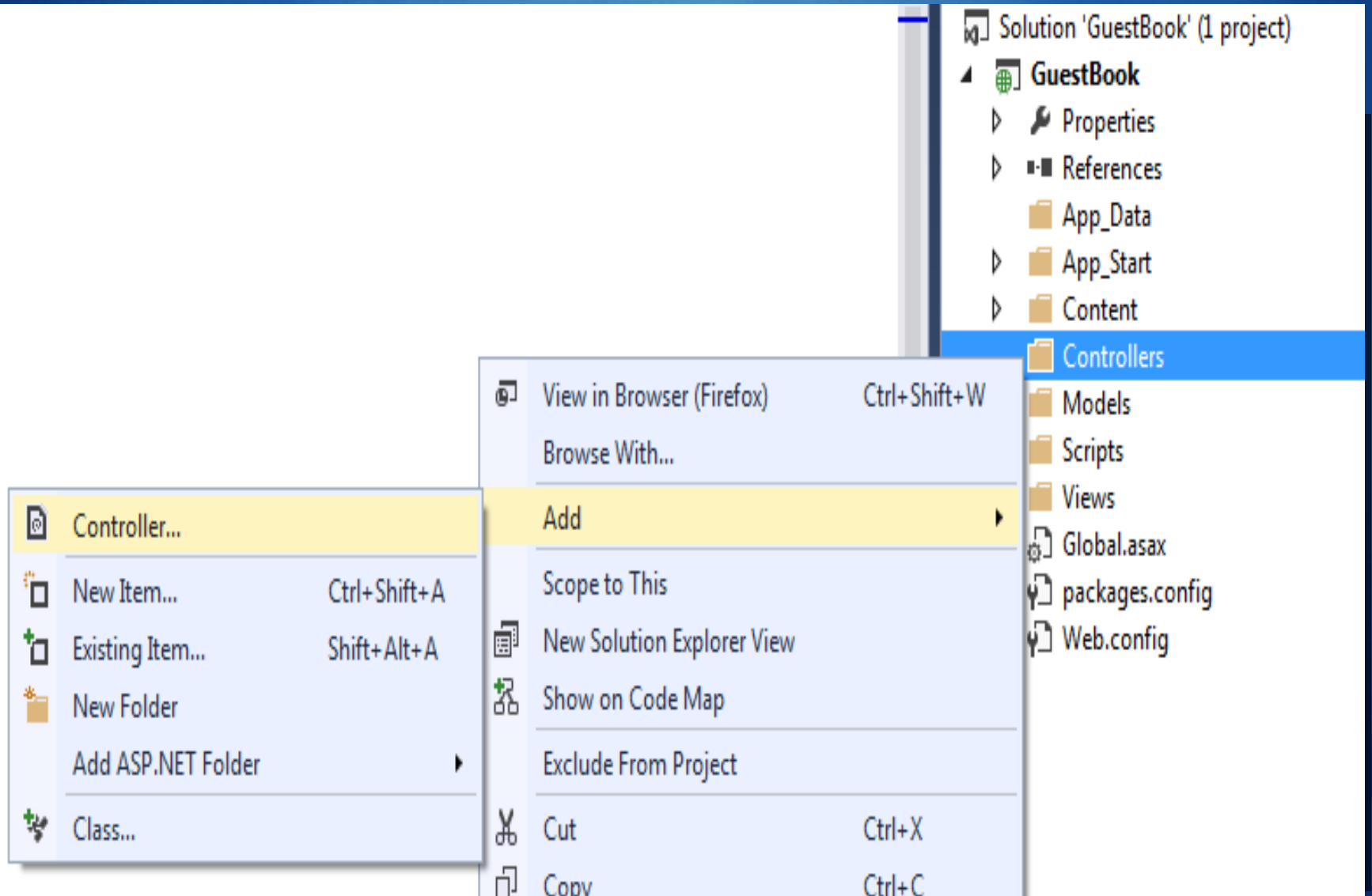
Scripts

Views

Global.asax

packages.config

Web.config



## Add Controller

Controller name:

GuestBookController

Scaffolding options

Template:

Empty MVC controller

Model class:

Data context class:

Views:

None



Advanced Options

Add

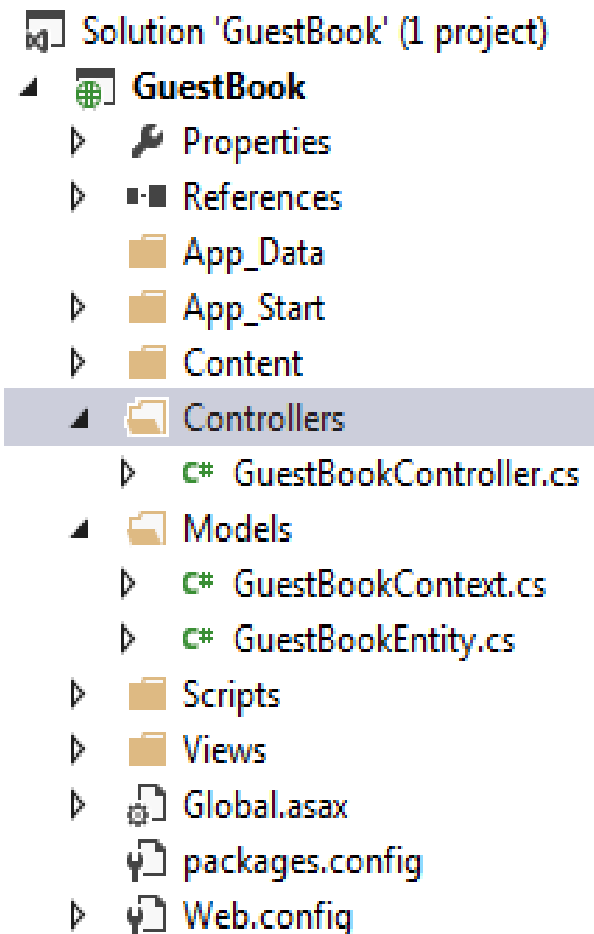
```

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

namespace GuestBook.Controllers
{
    0 references
    public class GuestBookController : Controller
    {
        //
        // GET: /GuestBook/

        0 references
        public ActionResult Index()
        {
            return View();
        }
    }
}

```



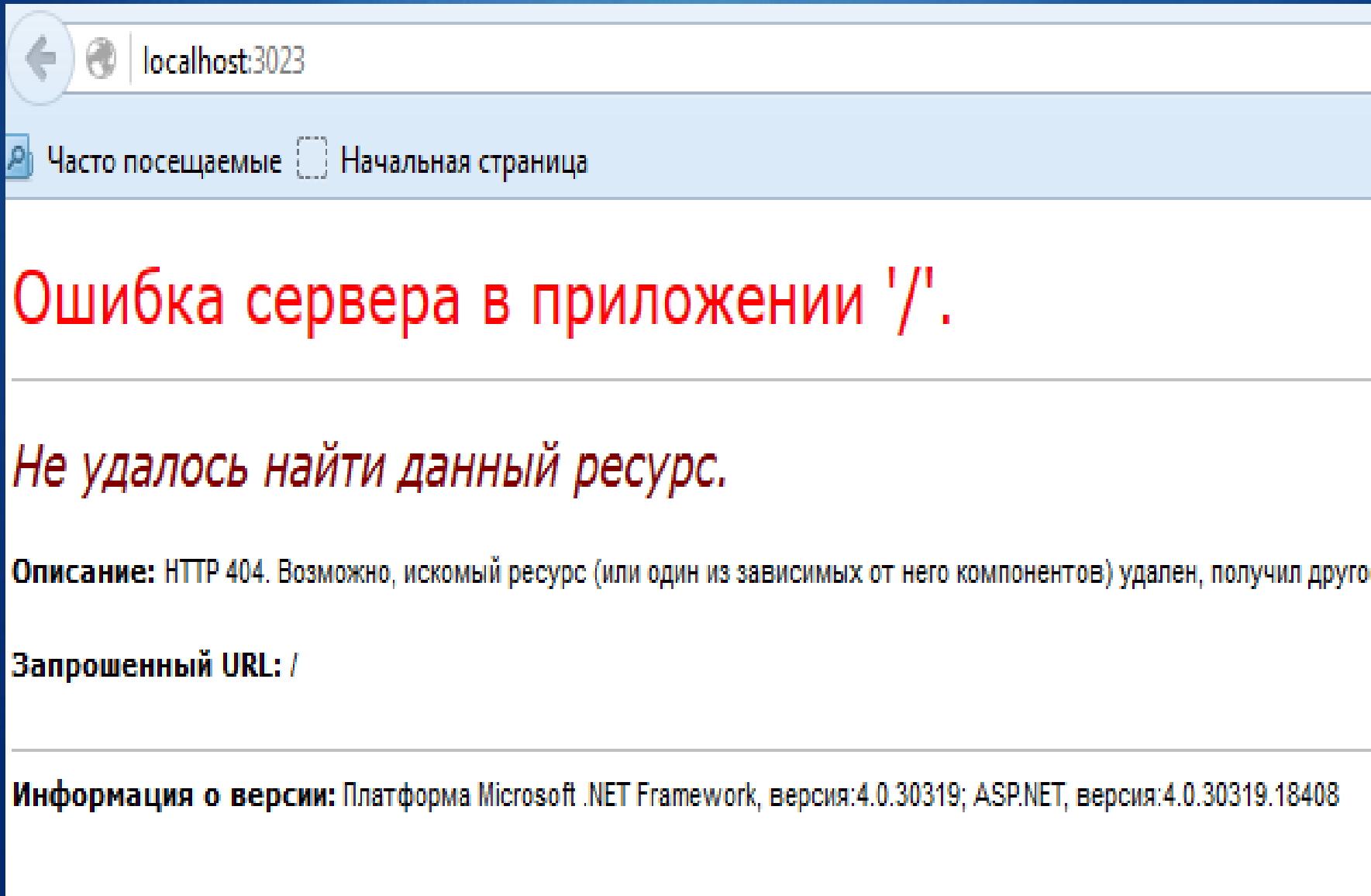
## 1\_1\_GuestBookController.txt

```
namespace GuestBook.Controllers
{
    0 references
    public class GuestBookController : Controller
    {
        private GuestBookContext ctx = new GuestBookContext();

        //
        // GET: /GuestBook/

        0 references
        public ActionResult Index()
        {
            var query = ctx.Entries
                                .OrderByDescending(it => it.DateAdd)
                                .Take(4)
                                .ToList();

            return View();
        }
        1 reference
        protected override void Dispose(bool disposing)
        {
            ctx.Dispose();
            base.Dispose(disposing);
        }
    }
}
```





```
namespace GuestBook
```

```
{
```

```
    1 reference
```

```
    public class RouteConfig
```

```
    {
```

```
        1 reference
```

```
        public static void RegisterRoutes(RouteCollection routes)
```

```
        {
```

```
            routes.IgnoreRoute("{resource}.axd/{*pathInfo}");
```

```
            routes.MapRoute(
```

```
                name: "Default",
```

```
                url: "{controller}/{action}/{id}",
```

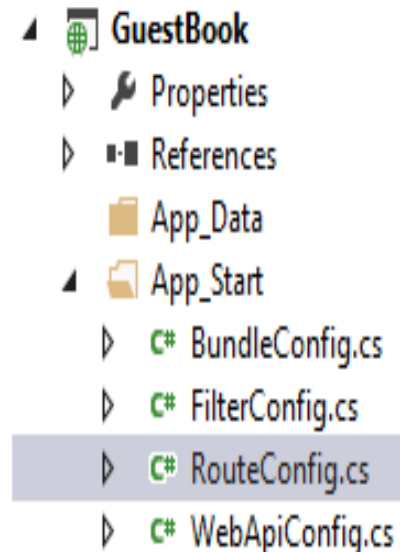
```
                defaults: new { controller = "Home", action = "Index", id = UrlParameter.Optional }
```

```
            );
```

```
        }
```

```
    }
```

```
}
```

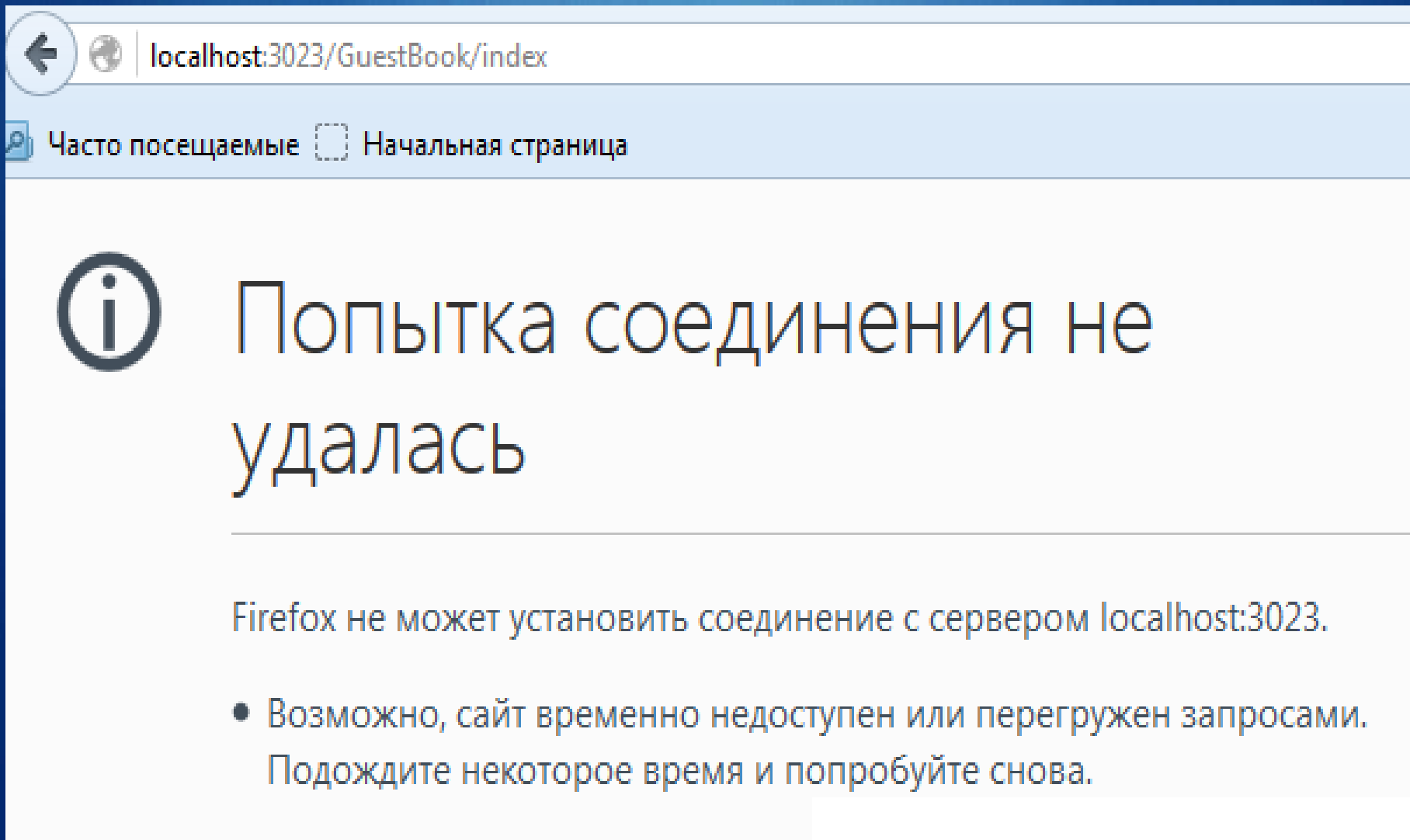


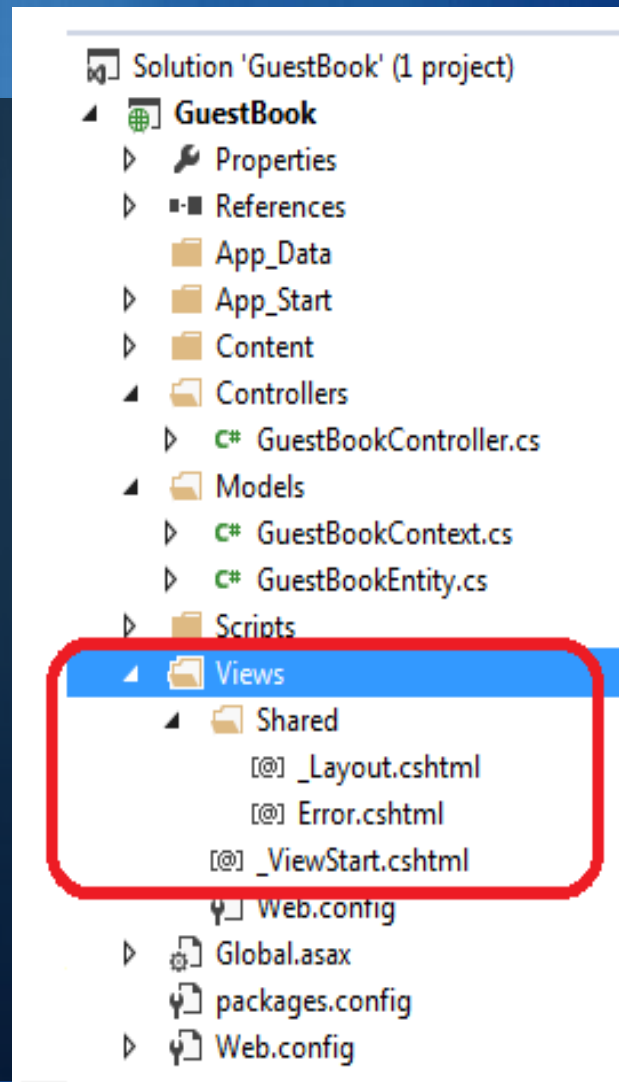
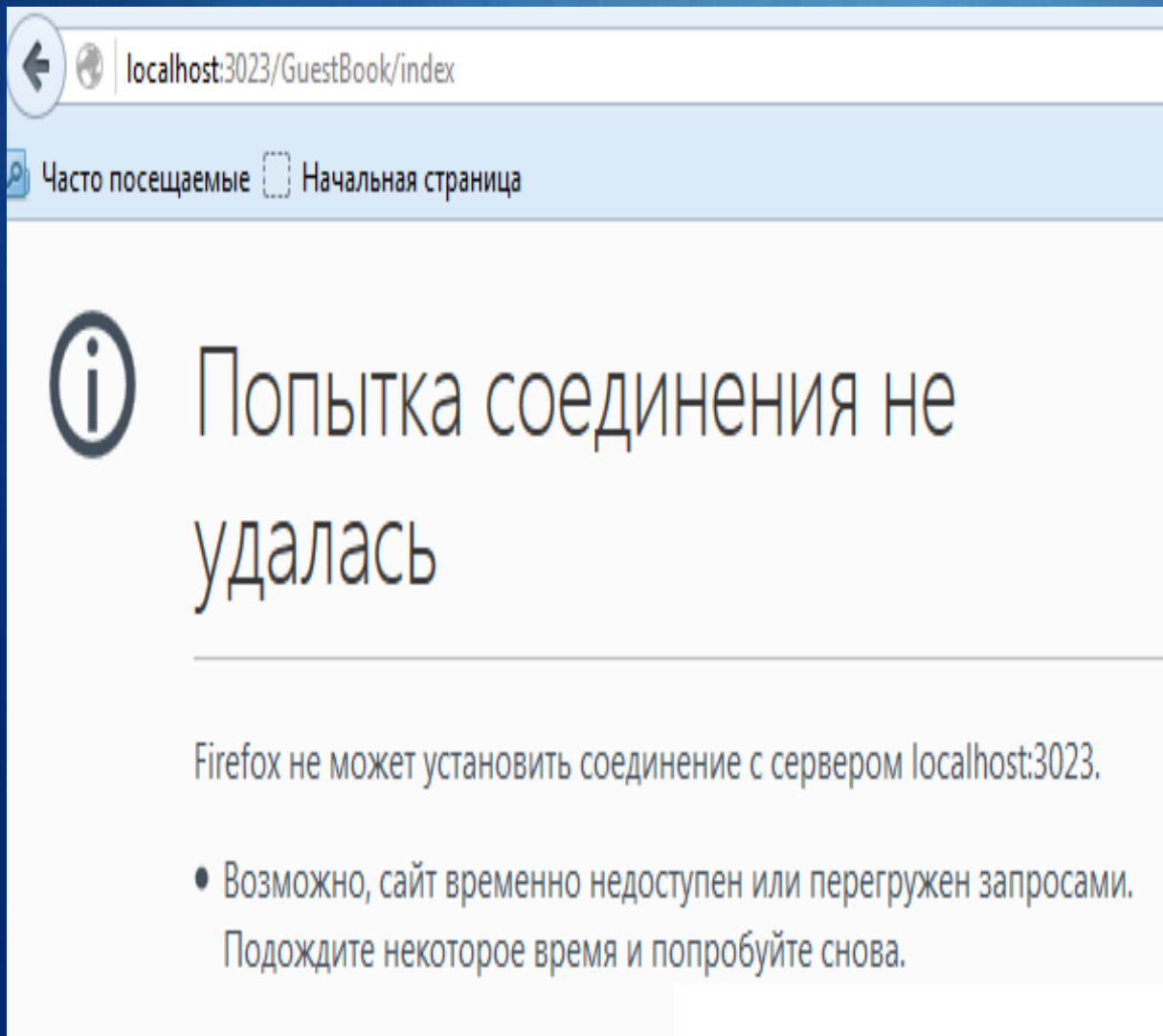
```

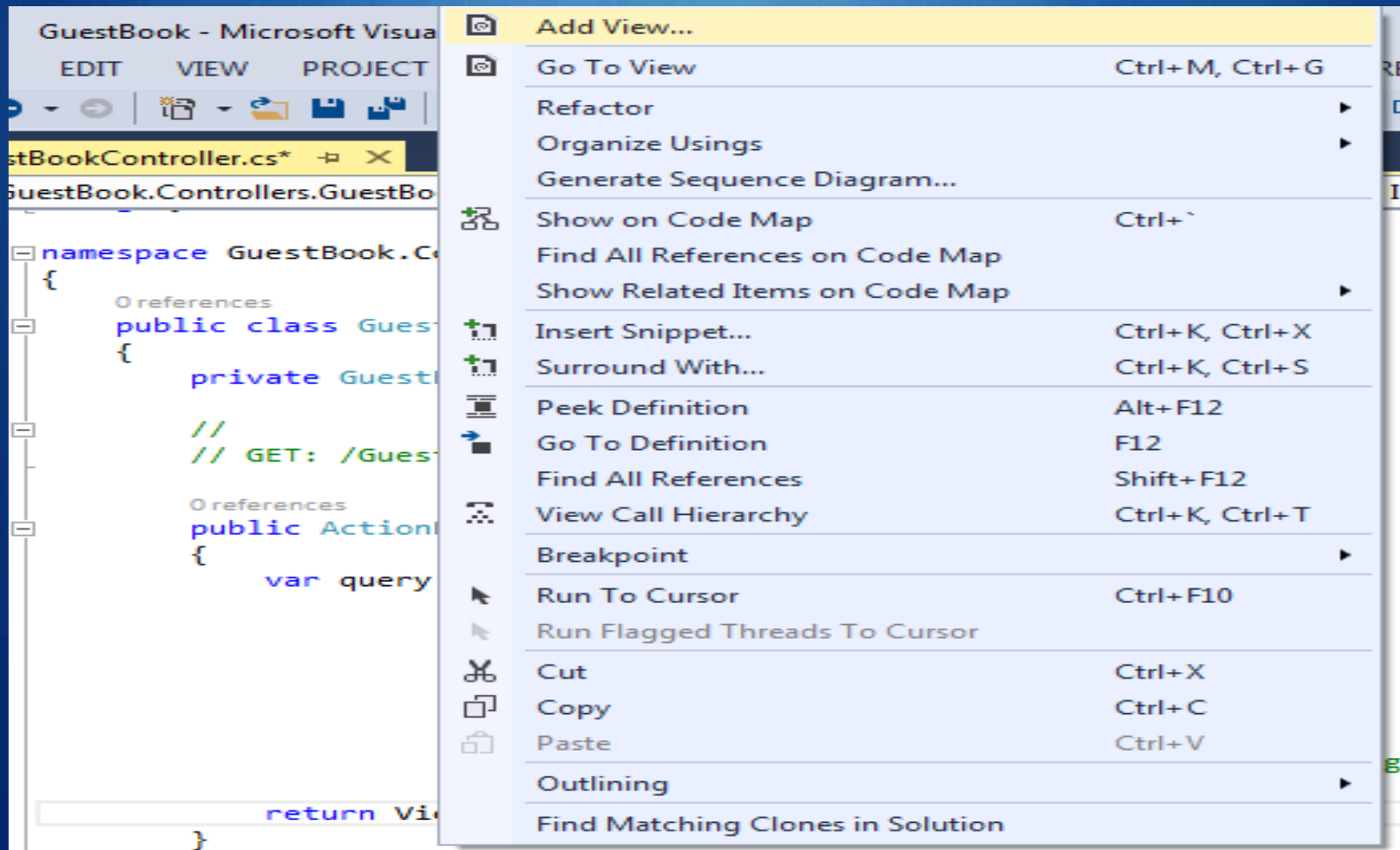
namespace GuestBook
{
    1 reference
    public class RouteConfig
    {
        1 reference
        public static void RegisterRoutes(RouteCollection routes)
        {
            routes.IgnoreRoute("{resource}.axd/{*pathInfo}");

            routes.MapRoute(
                name: "Default",
                url: "{controller}/{action}/{id}",
                defaults: new { controller = "GuestBook", action = "Index", id = UrlParameter.Optional }
            );
        }
    }
}

```







Add View

View name:  
Index

View engine:  
Razor (CSHTML)

☐ Create a strongly-typed view

Model class:

Scaffold template:  
Empty

☒ Reference script libraries

☐ Create as a partial view

☐ Use a layout or master page:  
...  
(Leave empty if it is set in a Razor \_viewstart file)

ContentPlaceholder ID:  
MainContent

Add Cancel

Index.cshtml

```
@{
```

```
    Layout = null;
```

```
}
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <meta name="viewport" content="width=device-width" />
```

```
    <title>Index</title>
```

```
</head>
```

```
<body>
```

```
    <div>
```

```
    </div>
```

```
</body>
```

```
</html>
```

- GuestBook
  - Properties
  - References
  - App\_Data
  - App\_Start
  - Content
  - Controllers
    - GuestBookController.cs
  - Models
    - GuestBookContext.cs
    - GuestBookEntity.cs
  - Scripts
  - Views
    - GuestBook
      - Index.cshtml
    - Shared
      - \_Layout.cshtml
      - Error.cshtml
      - \_ViewStart.cshtml
      - Web.config
  - Global.asax
  - packages.config
  - Web.config

```

namespace GuestBook.Controllers
{
    O references
    public class GuestBookController : Controller
    {
        private GuestBookContext ctx = new GuestBookContext();

        //
        // GET: /GuestBook/

        O references
        public ActionResult Index()
        {
            var query = ctx.Entries
                .OrderByDescending(it => it.DateAdd)
                .Take(4)
                .ToList();

            ViewBag.Entries

            return View();
        }
    }
}

```





```

using System;
using System.Runtime.CompilerServices;
using System.Web.Routing;

namespace System.Web.Mvc
{
    ...public abstract class ControllerBase : IController
    {
        ...protected ControllerBase();

        ...public ControllerContext ControllerContext { get; set; }
        ...public TempDataDictionary TempData { get; set; }
        ...public bool ValidateRequest { get; set; }
        ...public IValueProvider ValueProvider { get; set; }
        ...public dynamic ViewBag { get; }
        ...public ViewDataDictionary ViewData { get; set; }

        ...protected virtual void Execute(RequestContext requestContext);
        ...protected abstract void ExecuteCore();
        ...protected virtual void Initialize(RequestContext requestContext);
    }
}

```

## Index.txt

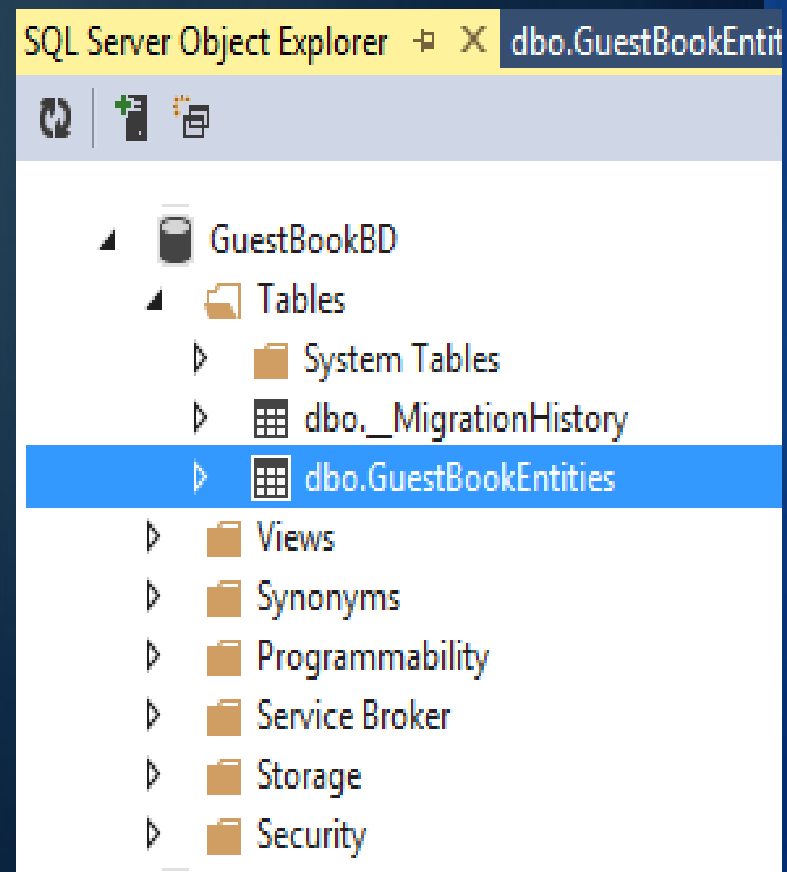
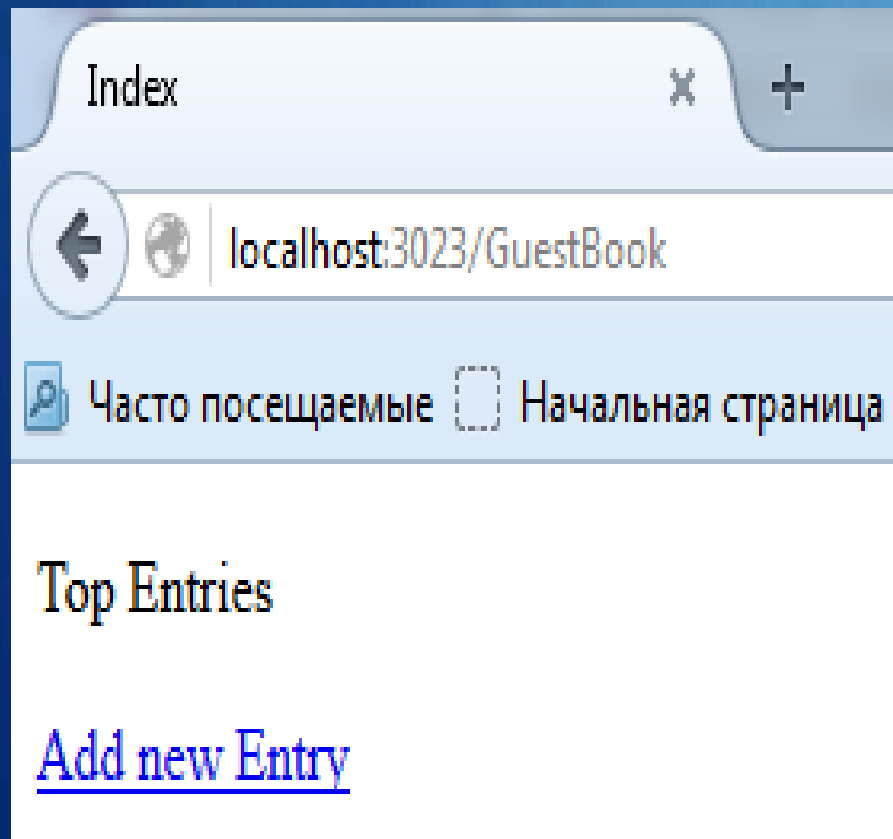
Index.cshtml

```
@{
    Layout = null;
}

<!DOCTYPE html>

<html>
<head>
    <meta name="viewport" content="width=device-width" />
    <title>Index</title>
</head>
<body>
    <div>
        <p>Top Entries </p>
        @foreach (var entry in ViewBag.Entries)
        {
            <div>Комментарий: @entry.Message</div>
            <div>Имя пользователя: @entry.Name </div>
            <div>Дата: @entry.DateAdd</div>
            <br />
        }
        <a href="/GuestBook/Create"> Add new Entry</a>
    </div>
</body>
</html>
```

- GuestBook
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    - App\_Start
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      - GuestBookController.cs
    - Models
      - GuestBookContext.cs
      - GuestBookEntity.cs
    - Scripts
    - Views
      - GuestBook
        - Index.cshtml
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        - \_Layout.cshtml
        - Error.cshtml
        - \_ViewStart.cshtml
        - Web.config
    - Global.asax
    - packages.config
    - Web.config



SQL Server Object Explorer    **dbo.GuestBookEntities [Design]**    Index.cshtml    GuestBookController.cs    GuestBookContext.cs    RouteConfig.cs

Update    Script File: **dbo.GuestBookEntities.sql**

	Name	Data Type	Allow Nulls	Default
	Id	int	<input type="checkbox"/>	
	Name	nvarchar(MAX)	<input checked="" type="checkbox"/>	
	Message	nvarchar(MAX)	<input checked="" type="checkbox"/>	
	DateAdd	datetime	<input type="checkbox"/>	
			<input type="checkbox"/>	

▲ **Keys (1)**

PK\_dbo.GuestBookEntities (Primary Key, Clustered: Id)

**Check Constraints (0)**

**Indexes (0)**

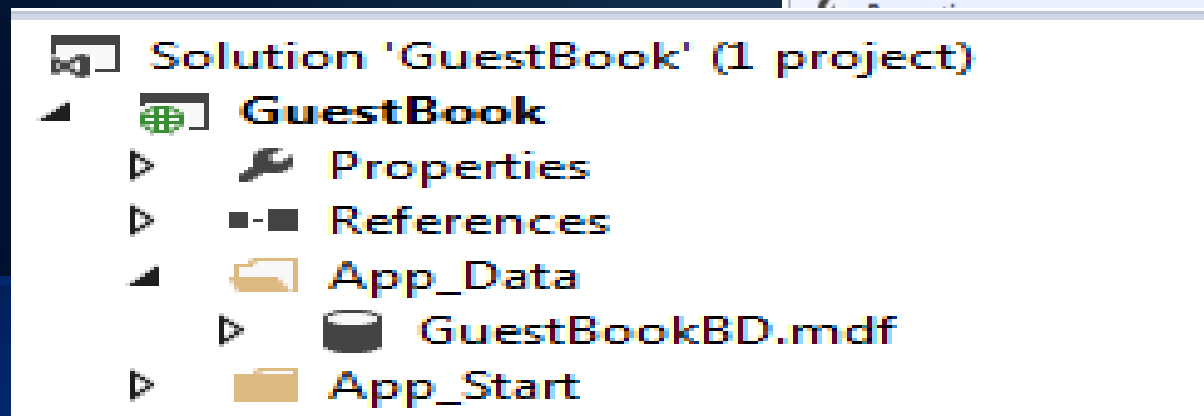
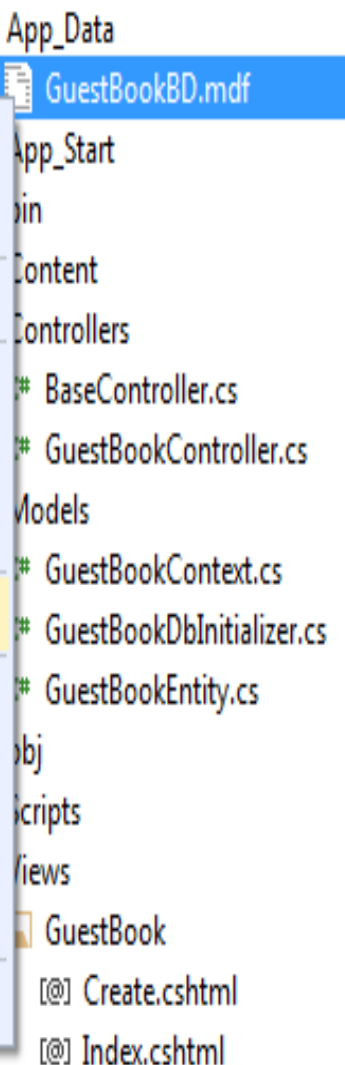
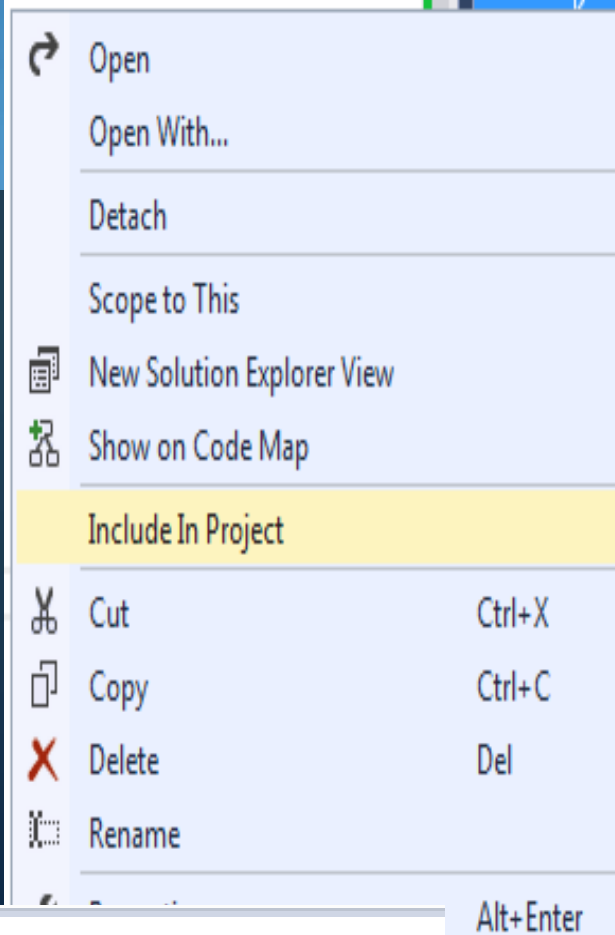
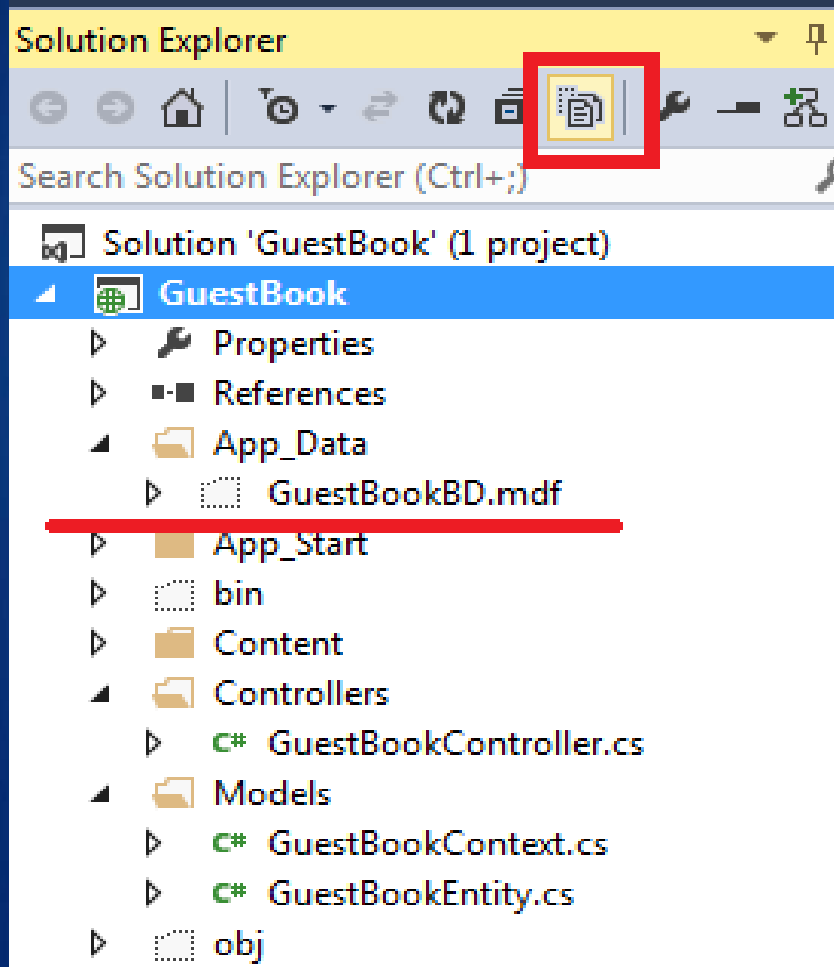
**Foreign Keys (0)**

**Triggers (0)**

Design    **T-SQL**

```

CREATE TABLE [dbo].[GuestBookEntities] (
    [Id]      INT          IDENTITY (1, 1) NOT NULL,
    [Name]    NVARCHAR (MAX) NULL,
    [Message] NVARCHAR (MAX) NULL,
    [DateAdd] DATETIME     NOT NULL,
    CONSTRAINT [PK_dbo.GuestBookEntities] PRIMARY KEY CLUSTERED ([Id] ASC)
);
  
```



```
public class GuestBookDbInitializer : CreateDatabaseIfNotExists<GuestBookContext>
{
```

### 3\_GuestBookDbInitializer.txt

References

```
protected override void Seed(GuestBookContext context)
```

```
{
    context.Entries.Add(new GuestBookEntity() { Id = 1, Name = "Guest 1",
        Message = "Hello!!!", DateAdd = DateTime.Now });
    context.Entries.Add(new GuestBookEntity() { Id = 2, Name = "Guest 2",
        Message = "Hello!!! Da", DateAdd = DateTime.Now });
    context.Entries.Add(new GuestBookEntity() { Id = 3, Name = "Guest 3",
        Message = "Hello!!! No", DateAdd = DateTime.Now });
    context.Entries.Add(new GuestBookEntity() { Id = 4, Name = "Guest 4",
        Message = "Hello!!! Yes", DateAdd = DateTime.Now });

    base.Seed(context);
}
```

▲ Models

▸ C# GuestBookContext.cs

▸ C# GuestBookDbInitializer.cs

▸ C# GuestBookEntity.cs

System.Data.Entity.

- CreateDatabaseIfNotExists<>
- DropCreateDatabaseAlways<>
- DropCreateDatabaseIfModelChanges<>
- IDatabaseInitializer<>
- IDbSet<>
- { } Infrastructure
- MigrateDatabaseToLatestVersion<>

```
// Note: For instructions on enabling IIS6 or IIS7 classic mode,  
// visit http://go.microsoft.com/?LinkId=9394801
```

References

```
public class MvcApplication : System.Web.HttpApplication  
{
```

References

```
protected void Application_Start()  
{
```

```
    Database.SetInitializer(new GuestBookDbInitializer());
```

```
    AreaRegistration.RegisterAllAreas();
```

```
    WebApiConfig.Register(GlobalConfiguration.Configuration);
```

```
    FilterConfig.RegisterGlobalFilters(GlobalFilters.Filters);
```

```
    RouteConfig.RegisterRoutes(RouteTable.Routes);
```

```
    BundleConfig.RegisterBundles(BundleTable.Bundles);
```

```
}
```

```
}
```

Solution 'GuestBook' (1 project)

GuestBook

Properties

References

App\_Data

App\_Start

Content

Controllers

Models

GuestBookContext.cs

GuestBookDbInitializer.cs

GuestBookEntity.cs

Scripts

Views

Global.asax

packages.config

Web.config



Удалить  
существующую БД

Solution 'GuestBook' (1 project)  
GuestBook  
Properties  
References  
App\_Data  
App\_Start  
Content  
Controllers  
Models  
Scripts  
Views  
Global.asax  
packages.config  
Web.config

Index

localhost:3023/GuestBook/Index

Часто посещаемые Начальная страница

### Top Entries

Комментарий:Hello!!! Yes  
Имя пользователя: Guest 4  
Дата: 09.01.2016 15:37:16

Комментарий:Hello!!! No  
Имя пользователя: Guest 3  
Дата: 09.01.2016 15:37:16

Комментарий:Hello!!! Da  
Имя пользователя: Guest 2  
Дата: 09.01.2016 15:37:16

Комментарий:Hello!!!  
Имя пользователя: Guest 1  
Дата: 09.01.2016 15:37:16

[Add new Entry](#)

```
namespace GuestBook.Controllers
```

```
{
```

```
    References
```

```
    public class GuestBookController : Controller
```

```
    {
```

```
        //
```

```
        // GET: /GuestBook/
```

```
        private GuestBookContext ctx = new GuestBookContext();
```

```
        References
```

```
        public ActionResult Index()
```

```
        {
```

```
            ViewBag.Entries = ctx.Entries.OrderBy(it => it.DateAdd).Take(20).ToList();
```

```
            return View();
```

```
        }
```

```
        References
```

```
        public ActionResult Create()
```

```
        {
```

```
            return View();
```

```
        }
```

```
    }
```

```
}
```

Controllers

GuestBookController.cs

Models

GuestBookContext.cs

GuestBookEntity.cs

Scripts

Views

GuestBook

Create.cshtml

Index.cshtml

*Create\_view.txt*

```

@{
    Layout = null;
}

<!DOCTYPE html>

<html>
<head>
    <meta name="viewport" content="width=device-width" />
    <title>Create</title>
</head>
<body>
    <div>
        <form action="Create" method="post">
            <div>
                <label>Введите имя </label>
                <input type="text" name="Name" id="Name" />
            </div>

            <div><label for="Message">Введите комментарий </label></div>
            <div>
                <textarea rows="10" cols="30" name="Message" id="Message"></textarea>
            </div>

            <div><input type="submit" value="Add" /></div>
        </form>
    </div>
</body>
</html>

```

- GuestBook
  - Properties
  - References
  - App\_Data
  - App\_Start
  - Content
  - Controllers
    - BaseController.cs
    - GuestBookController.cs
  - Models
  - Scripts
  - Views
    - GuestBook
      - Create.cshtml
      - Index.cshtml
    - Shared
      - \_ViewStart.cshtml
      - Web.config
    - Global.asax
    - packages.config

0 references

## 1\_2\_Create

```
public ActionResult Create()
{
    return View();
}
```

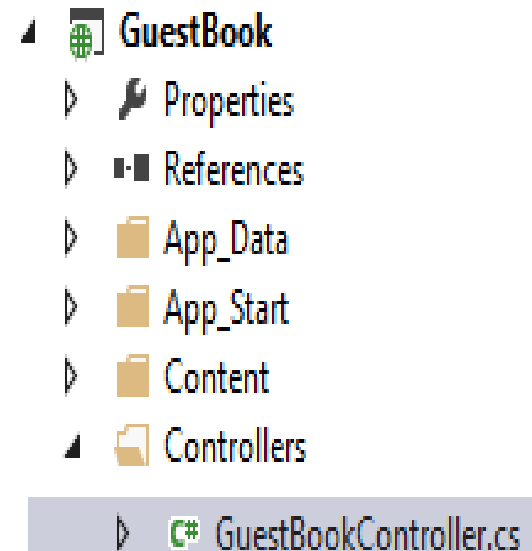
0 references

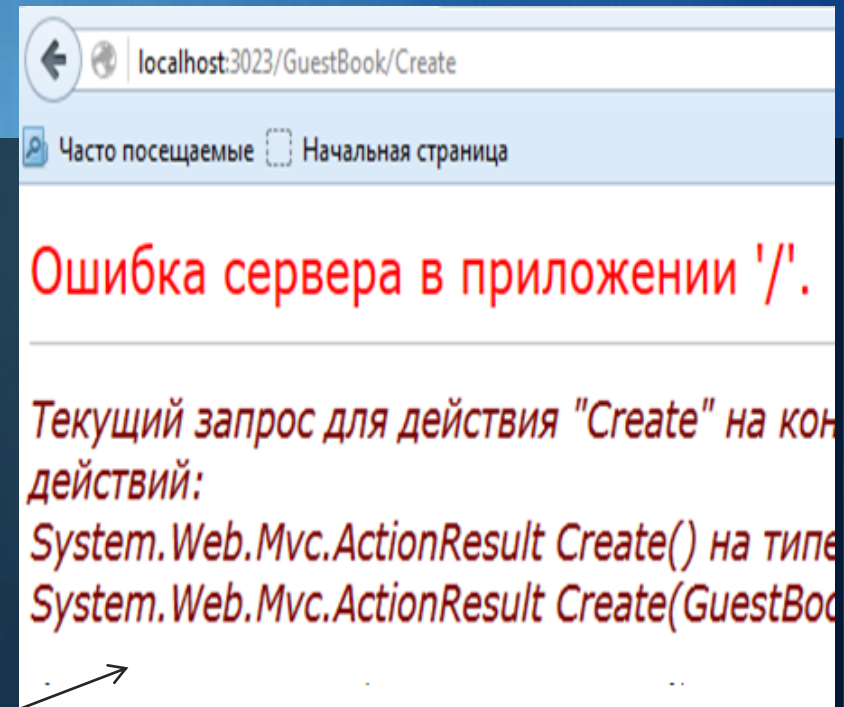
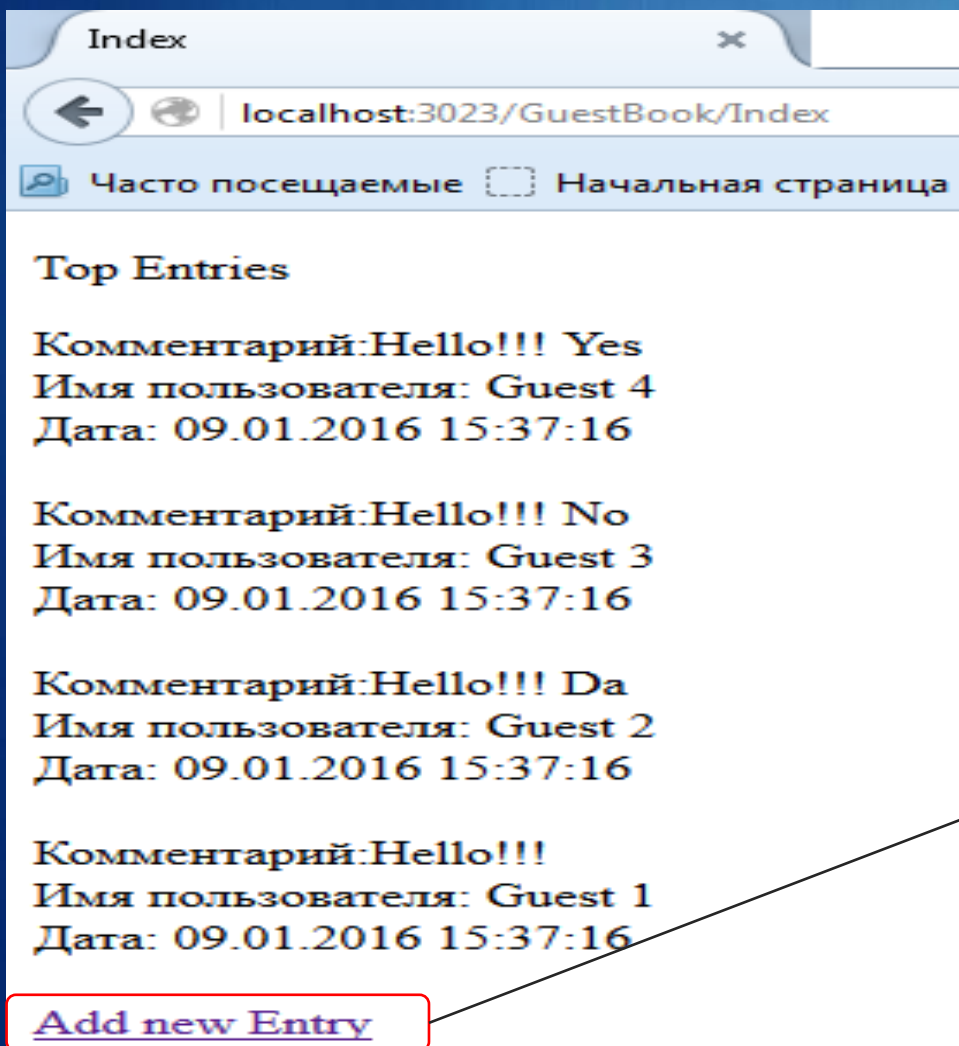
```
public ActionResult Create(GuestBookEntity guestBook)
{
    guestBook.DateAdd = DateTime.Now;

    ctx.Entries.Add(guestBook);

    ctx.SaveChanges();

    return View();
}
```





```

private GuestBookContext ctx = new GuestBookContext();
References
public ActionResult Index()
{
    ViewBag.Entries = ctx.Entries.OrderBy(it => it.DateAdd).Take(20).ToList();
    return View();
}
[HttpGet]
References
public ActionResult Create()
{
    return View();
}
[HttpPost]
References
public ActionResult Create(GuestBookEntity guestBook)
{
    guestBook.DateAdd = DateTime.Now;

    ctx.Entries.Add(guestBook);

    ctx.SaveChanges();

    return View();
}

```

Введите имя

Введите комментарий

Hello!!! C#

Add

Введите имя

Введите комментарий

Hello!!! No-No

Add

