

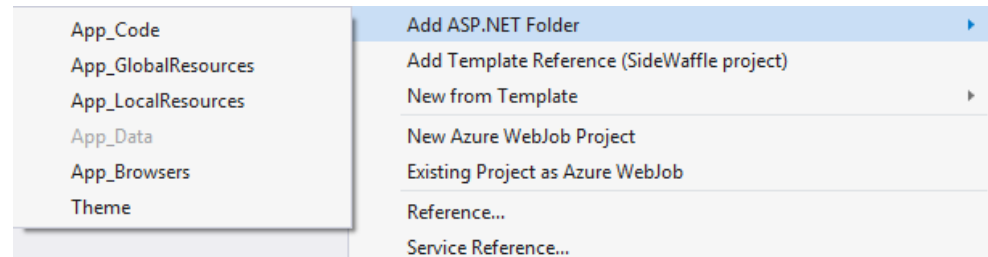
MVC 5

(Model-View-Controller)

Struktura direktorija

Struktura web aplikacije

- Svaka ASP.NET web aplikacija kreirana u Visual Studiu 2013 može (ali i ne mora) imati slijedeće specijalne direktorije:
 - App_Data
 - App_Start
 - App_Browsers
 - App_Code
 - App_WebReferences
 - App_GlobalResources
 - App_LocalResources
 - Theme
 - Bin
 - ...

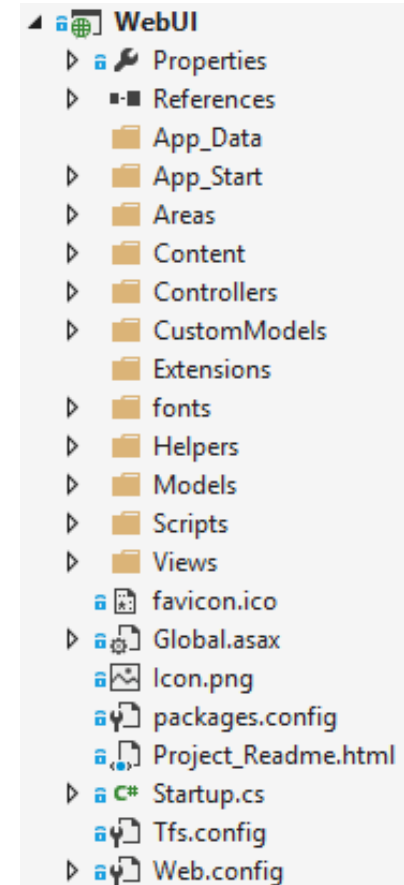


Dok su za MVC su specifični slijedeći direktoriji:

App_Data	– može sadržavati bazu podataka
App_Start	– sadrži kod za postavljanje aplikacije
Areas	– module aplikacije sa svim pripadajućim pod-direktorijima
Content	– slike, .css, i slične datoteke
Controllers	– controllere aplikacije
Models	– .cs datoteke, modele aplikacije
Scripts	– JavaScripts datoteke
Views	– .cshtml datoteke, View-ove

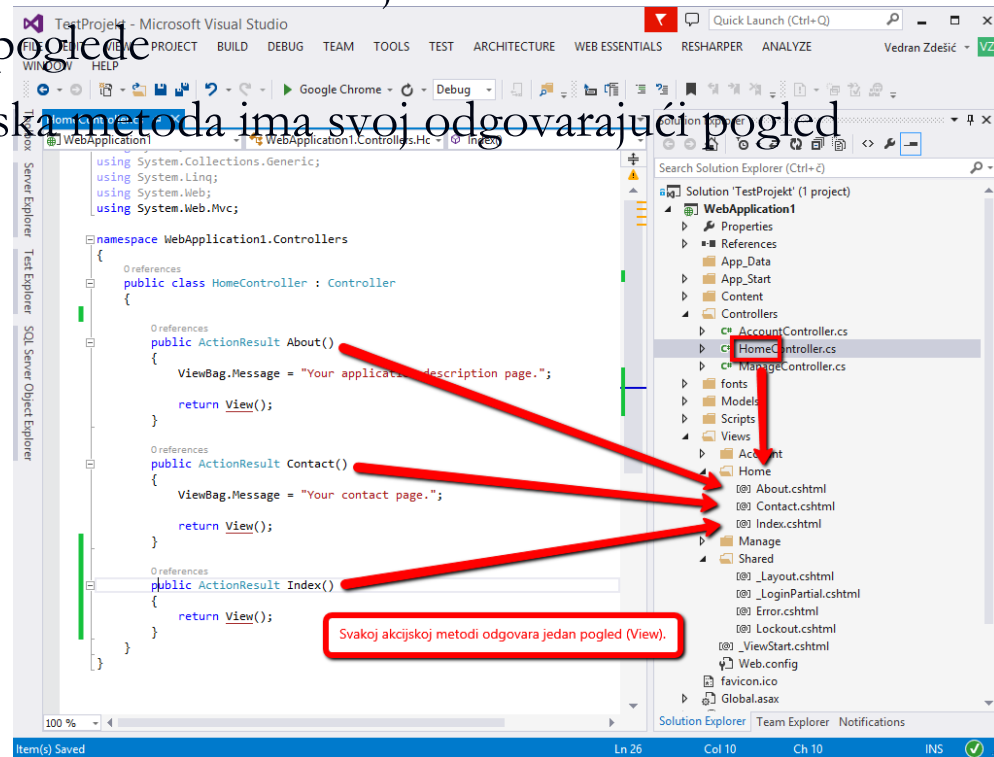
U korijenskom (root) direktoriju su važne aplikacijske datoteke poput:

- Global.asax
- Web.config
- Favicon.ico
- ...



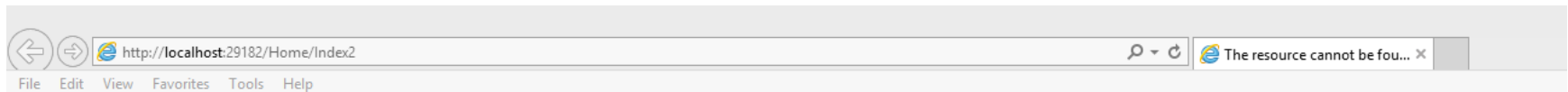
Relacija među direktorijima

- Među direktorijima postoje strogo definirani odnosi:
 - Controllers i Views direktoriji su u korijenskom direktoriju aplikacije
 - Ime kontrolera mora odgovarati imenu direktorija unutar Views direktorija koji sadrži vezane pogled
 - U našem primjeru svaka akcijska metoda ima svoj odgovarajući pogled



Gdje ASP.NET pretražuje Viewove (I)

- Pogledajmo što će se dogoditi ako preimenujemo Index.cshtml View u Index2.cshtml
- Prvo, ako upišemo u preglednik ../Home/Index2 dobiti ćemo grešku – The resource cannot be found
- Razlog je taj što ASP.NET ne pokušava pronaći taj View (Index2) koji stvarno postoji, nego akcijsku metodu istog imena na Controlleru, a ona stvarno i ne postoji



Server Error in '/' Application.

The resource cannot be found.

Description: HTTP 404. The resource you are looking for (or one of its dependencies) could have been removed, had its name changed, or is temporarily unavailable. Please review the following URL and make sure that it is spelled correctly.

Requested URL: /Home/Index2

Version Information: Microsoft .NET Framework Version:4.0.30319; ASP.NET Version:4.0.30319.34248

Gdje ASP.NET pretražuje Viewove (II)

- Drugo, ako upišemo u preglednik ../Home/Index dobiti ćemo grešku na donjoj slici
- Razlog je taj što ASP.NET ne uspjeva pronaći View (Index2) koji stvarno postoji na lokacijama na kojima se podrazumijeva da bi on trebao biti

Server Error in '/' Application.

The view 'Index' or its master was not found or no view engine supports the searched locations. The following locations were searched:

- ~/Views/Home/Index.aspx
- ~/Views/Home/Index.ascx
- ~/Views/Shared/Index.aspx
- ~/Views/Shared/Index.ascx
- ~/Views/Home/Index.cshtml
- ~/Views/Home/Index.vbhtml
- ~/Views/Shared/Index.cshtml
- ~/Views/Shared/Index.vbhtml

Sve ove lokacije i tipove datoteka će ASP.NET pretraživati!
Ako tamo ne pronađe View, javi ovu grešku.

Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.

Exception Details: System.InvalidOperationException: The view 'Index' or its master was not found or no view engine supports the searched locations. The following locations were searched:

- ~/Views/Home/Index.aspx
- ~/Views/Home/Index.ascx
- ~/Views/Shared/Index.aspx
- ~/Views/Shared/Index.ascx
- ~/Views/Home/Index.cshtml
- ~/Views/Home/Index.vbhtml
- ~/Views/Shared/Index.cshtml
- ~/Views/Shared/Index.vbhtml

Source Error:

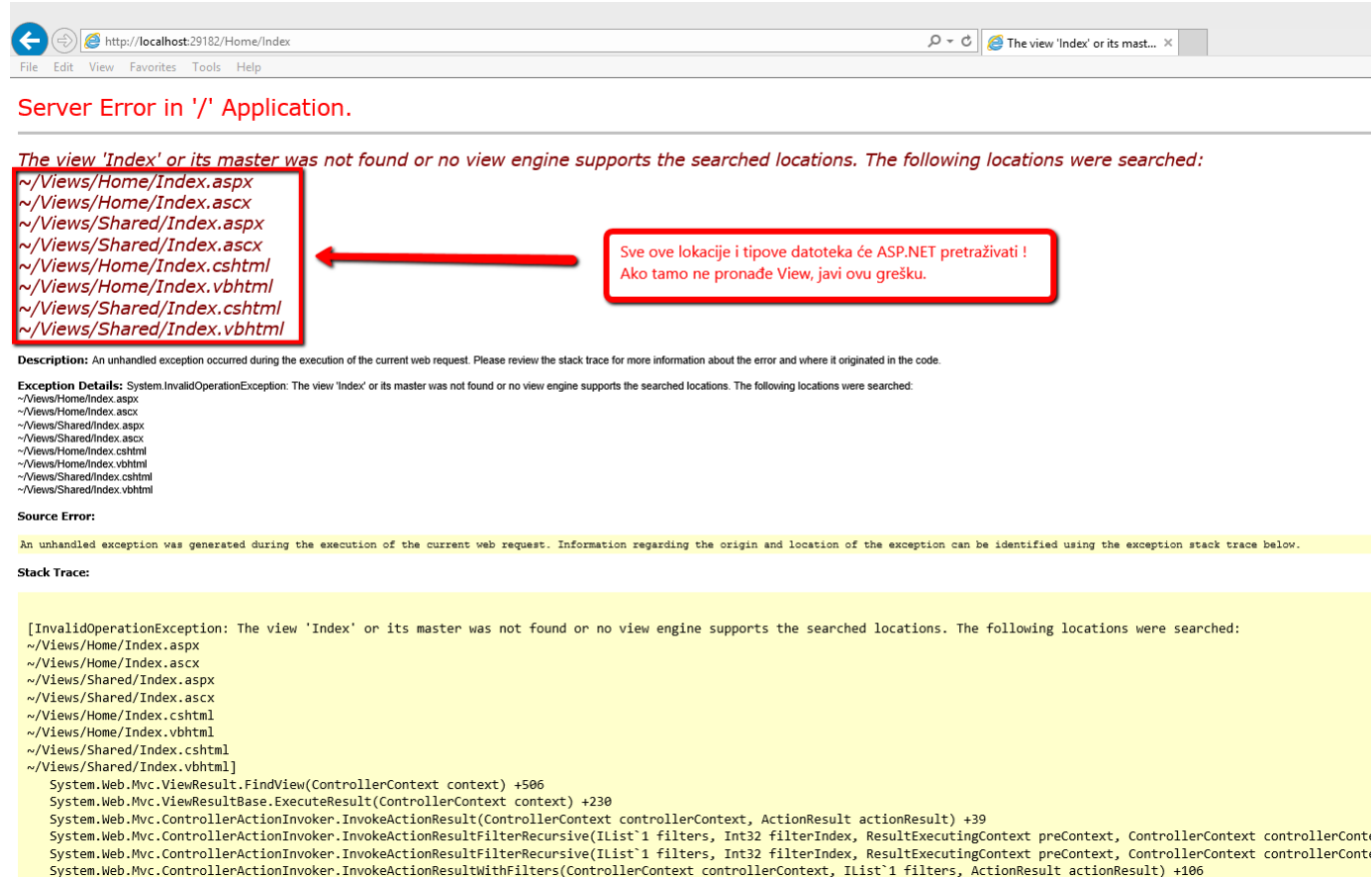
An unhandled exception was generated during the execution of the current web request. Information regarding the origin and location of the exception can be identified using the exception stack trace below.

Stack Trace:

```
[InvalidOperationException: The view 'Index' or its master was not found or no view engine supports the searched locations. The following locations were searched:
~/Views/Home/Index.aspx
~/Views/Home/Index.ascx
~/Views/Shared/Index.aspx
~/Views/Shared/Index.ascx
~/Views/Home/Index.cshtml
~/Views/Home/Index.vbhtml
~/Views/Shared/Index.cshtml
~/Views/Shared/Index.vbhtml]
System.Web.Mvc.ViewResult.FindView(ControllerContext context) +506
System.Web.Mvc.ViewResultBase.ExecuteResult(ControllerContext context) +230
System.Web.Mvc.ControllerActionInvoker.InvokeActionResult(ControllerContext controllerContext, ActionResult actionResult) +39
System.Web.Mvc.ControllerActionInvoker.InvokeActionResultFilterRecursive(IList`1 filters, Int32 filterIndex, ResultExecutingContext preContext, ControllerContext controllerContext, ActionResult actionResult) +106
System.Web.Mvc.ControllerActionInvoker.InvokeActionResultWithFilters(ControllerContext controllerContext, IList`1 filters, ActionResult actionResult) +106
```

Gdje ASP.NET pretražuje Viewove (III)

- ZAKLJUČAK: ASP.NET pretražuje Viewove u direktoriju koji odgovara određenom Controlleru, te Shared direktoriju, oba unutar View direktorija



Server Error in '/' Application.

The view 'Index' or its master was not found or no view engine supports the searched locations. The following locations were searched:

- ~/Views/Home/Index.aspx
- ~/Views/Home/Index.ascx
- ~/Views/Shared/Index.aspx
- ~/Views/Shared/Index.ascx
- ~/Views/Home/Index.cshtml
- ~/Views/Home/Index.vbhtml
- ~/Views/Shared/Index.cshtml
- ~/Views/Shared/Index.vbhtml

Sve ove lokacije i tipove datoteka će ASP.NET pretraživati !
Ako tamo ne pronađe View, javi ovu grešku.

Description: An unhandled exception occurred during the execution of the current web request. Please review the stack trace for more information about the error and where it originated in the code.

Exception Details: System.InvalidOperationException: The view 'Index' or its master was not found or no view engine supports the searched locations. The following locations were searched:

- ~/Views/Home/Index.aspx
- ~/Views/Home/Index.ascx
- ~/Views/Shared/Index.aspx
- ~/Views/Shared/Index.ascx
- ~/Views/Home/Index.cshtml
- ~/Views/Home/Index.vbhtml
- ~/Views/Shared/Index.cshtml
- ~/Views/Shared/Index.vbhtml

Source Error:

An unhandled exception was generated during the execution of the current web request. Information regarding the origin and location of the exception can be identified using the exception stack trace below.

Stack Trace:

```
[InvalidOperationException: The view 'Index' or its master was not found or no view engine supports the searched locations. The following locations were searched:  
~/Views/Home/Index.aspx  
~/Views/Home/Index.ascx  
~/Views/Shared/Index.aspx  
~/Views/Shared/Index.ascx  
~/Views/Home/Index.cshtml  
~/Views/Home/Index.vbhtml  
~/Views/Shared/Index.cshtml  
~/Views/Shared/Index.vbhtml]  
System.Web.Mvc.ViewResult.FindView(ControllerContext context) +506  
System.Web.Mvc.ViewResultBase.ExecuteResult(ControllerContext context) +230  
System.Web.Mvc.ControllerActionInvoker.InvokeActionResult(ControllerContext controllerContext, ActionResult actionResult) +39  
System.Web.Mvc.ControllerActionInvoker.InvokeActionResultFilterRecursive(IList`1 filters, Int32 filterIndex, ResultExecutingContext preContext, ControllerContext controllerContext, ActionResult actionResult) +50  
System.Web.Mvc.ControllerActionInvoker.InvokeActionResultFilterRecursive(IList`1 filters, Int32 filterIndex, ResultExecutingContext preContext, ControllerContext controllerContext, ActionResult actionResult) +50  
System.Web.Mvc.ControllerActionInvoker.InvokeActionResultWithFilters(ControllerContext controllerContext, IList`1 filters, ActionResult actionResult) +106
```

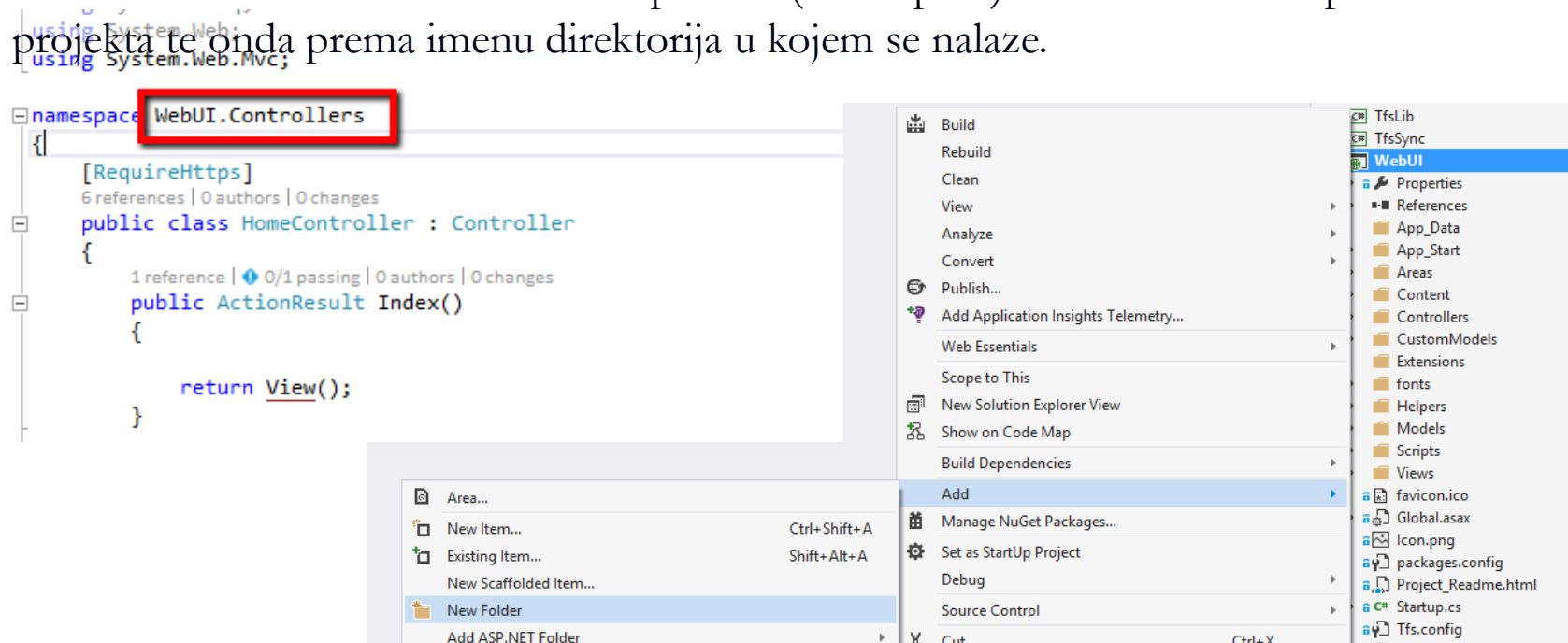
Gdje ASP.NET pretražuje Viewove (IV)

- ASP.NET MVC u potpunosti ovisi o strukturi direktorija i njezinim odnosima
- Ne smijemo poremetiti te odnose. Moramo ih u potpunosti poštivati kako bi aplikacija funkcionirala
- **NAPOMENA:** Postoje načini kako promijeniti lokacije ovih podrazumijevanih direktorija, ali to gradivo nećemo obrađivati na ovom predmetu

Kreiranje novog prilagođenog direktorija aplikacije

Novi direktorij možemo kreirati kako bi bolje organizirali kod, a ne us svrhu dobivanja određene funkcionalnosti.

Novo dodane klase imati će imenski prostor (namespace) defaultno kreiran prema imenu projekta te onda prema imenu direktorija u kojem se nalaze.



Tipovi datoteka web aplikacije

- Unutar svake web aplikacije možemo naći slijedeće tipove datoteka:
 - .cs
 - .cshtml
 - .config
 - Global.asax
 - .js
 - .css
 - .resx
 - ...