03. [2023 -03 -06] S1L03 Session 03
Roadmap toward working with the ASP.NET Model-View-Controller (MVC) Pattern.

Sample project structure

```
S1L03
│   S1L03.sln
│
+---packages
│   +---Antlr.3.5.0.2
│   │   │   .signature.p7s
│   │   │   Antlr.3.5.0.2.nupkg
│   │   │
│   │   \---lib
│   │           Antlr3.Runtime.dll
│   │           Antlr3.Runtime.pdb
│   │
│   +---bootstrap.3.4.1
│   │   │   .signature.p7s
│   │   │   bootstrap.3.4.1.nupkg
│   │   │   LICENSE.txt
│   │   │
│   │   +---content
│   │   │   +---Content
│   │   │   │       bootstrap-theme.css
│   │   │   │       bootstrap-theme.css.map
│   │   │   │       bootstrap-theme.min.css
│   │   │   │       bootstrap-theme.min.css.map
│   │   │   │       bootstrap.css
│   │   │   │       bootstrap.css.map
│   │   │   │       bootstrap.min.css
│   │   │   │       bootstrap.min.css.map
│   │   │   │
│   │   │   +---fonts
│   │   │   │       glyphicons-halflings-regular.eot
│   │   │   │       glyphicons-halflings-regular.svg
│   │   │   │       glyphicons-halflings-regular.ttf
│   │   │   │       glyphicons-halflings-regular.woff
│   │   │   │       glyphicons-halflings-regular.woff2
│   │   │   │
│   │   │   \---Scripts
│   │   │           bootstrap.js
│   │   │           bootstrap.min.js
│   │   │
│   │   \---contentFiles
│   │       +---Content
│   │       │       bootstrap-theme.css
│   │       │       bootstrap-theme.css.map
│   │       │       bootstrap-theme.min.css
│   │       │       bootstrap-theme.min.css.map
│   │       │       bootstrap.css
│   │       │       bootstrap.css.map
│   │       │       bootstrap.min.css
│   │       │       bootstrap.min.css.map
│   │       │
│   │       +---fonts
```

```
|   |       |       glyphicons-halflings-regular.eot
|   |       |       glyphicons-halflings-regular.svg
|   |       |       glyphicons-halflings-regular.ttf
|   |       |       glyphicons-halflings-regular.woff
|   |       |       glyphicons-halflings-regular.woff2
|   |       |
|   |       \---Scripts
|   |               bootstrap.js
|   |               bootstrap.min.js
|   |
|   +---jQuery.3.4.1
|   |   |   .signature.p7s
|   |   |   jQuery.3.4.1.nupkg
|   |   |
|   |   +---Content
|   |   |   \---Scripts
|   |   |           jquery-3.4.1-vsdoc.js
|   |   |           jquery-3.4.1.js
|   |   |           jquery-3.4.1.min.js
|   |   |           jquery-3.4.1.min.map
|   |   |           jquery-3.4.1.slim.js
|   |   |           jquery-3.4.1.slim.min.js
|   |   |           jquery-3.4.1.slim.min.map
|   |   |
|   |   \---Tools
|   |           common.ps1
|   |           install.ps1
|   |           jquery-3.4.1.intellisense.js
|   |           uninstall.ps1
|   |
|   +---jQuery.Validation.1.17.0
|   |   |   .signature.p7s
|   |   |   jQuery.Validation.1.17.0.nupkg
|   |   |
|   |   \---Content
|   |       \---Scripts
|   |               jquery.validate-vsdoc.js
|   |               jquery.validate.js
|   |               jquery.validate.min.js
|   |
|   +---Microsoft.AspNet.Mvc.5.2.7
|   |   |   .signature.p7s
|   |   |   Microsoft.AspNet.Mvc.5.2.7.nupkg
|   |   |
|   |   +---Content
|   |   |       Web.config.install.xdt
|   |   |       Web.config.uninstall.xdt
|   |   |
|   |   \---lib
|   |       \---net45
|   |               System.Web.Mvc.dll
|   |               System.Web.Mvc.xml
|   |
|   +---Microsoft.AspNet.Razor.3.2.7
|   |   |   .signature.p7s
|   |   |   Microsoft.AspNet.Razor.3.2.7.nupkg
|   |   |
|   |   \---lib
|   |       \---net45
```

```
|   |                       System.Web.Razor.dll
|   |                       System.Web.Razor.xml
|   |
|   +---Microsoft.AspNet.Web.Optimization.1.1.3
|   |   |   .signature.p7s
|   |   |   Microsoft.AspNet.Web.Optimization.1.1.3.nupkg
|   |   |
|   |   \---lib
|   |       \---net40
|   |                   System.Web.Optimization.dll
|   |                   system.web.optimization.xml
|   |
|   +---Microsoft.AspNet.WebPages.3.2.7
|   |   |   .signature.p7s
|   |   |   Microsoft.AspNet.WebPages.3.2.7.nupkg
|   |   |
|   |   +---Content
|   |   |       Web.config.install.xdt
|   |   |       Web.config.uninstall.xdt
|   |   |
|   |   \---lib
|   |       \---net45
|   |                   System.Web.Helpers.dll
|   |                   System.Web.Helpers.xml
|   |                   System.Web.WebPages.Deployment.dll
|   |                   System.Web.WebPages.Deployment.xml
|   |                   System.Web.WebPages.dll
|   |                   System.Web.WebPages.Razor.dll
|   |                   System.Web.WebPages.Razor.xml
|   |                   System.Web.WebPages.xml
|   |
|   +---Microsoft.CodeDom.Providers.DotNetCompilerPlatform.2.0.1
|   |   |   .signature.p7s
|   |   |   Microsoft.CodeDom.Providers.DotNetCompilerPlatform.2.0.1.nupkg
|   |   |
|   |   +---build
|   |   |   +---net45
|   |   |   |       Microsoft.CodeDom.Providers.DotNetCompilerPlatform.Extensions.props
|   |   |   |       Microsoft.CodeDom.Providers.DotNetCompilerPlatform.props
|   |   |   |
|   |   |   \---net46
|   |   |           Microsoft.CodeDom.Providers.DotNetCompilerPlatform.Extensions.props
|   |   |           Microsoft.CodeDom.Providers.DotNetCompilerPlatform.props
|   |   |
|   |   +---content
|   |   |   +---net45
|   |   |   |       app.config.install.xdt
|   |   |   |       app.config.uninstall.xdt
|   |   |   |       web.config.install.xdt
|   |   |   |       web.config.uninstall.xdt
|   |   |   |
|   |   |   \---net46
|   |   |           app.config.install.xdt
|   |   |           app.config.uninstall.xdt
|   |   |           web.config.install.xdt
|   |   |           web.config.uninstall.xdt
|   |   |
|   |   +---lib
|   |   |   \---net45
```

```
|   |   |           Microsoft.CodeDom.Providers.DotNetCompilerPlatform.dll
|   |   |           Microsoft.CodeDom.Providers.DotNetCompilerPlatform.xml
|   |   |
|   |   \---tools
|   |       +---net45
|   |       |       install.ps1
|   |       |       uninstall.ps1
|   |       |
|   |       +---Roslyn45
|   |       |       csc.exe
|   |       |       csc.exe.config
|   |       |       csc.rsp
|   |       |       csi.exe
|   |       |       csi.rsp
|   |       |       Microsoft.Build.Tasks.CodeAnalysis.dll
|   |       |       Microsoft.CodeAnalysis.CSharp.dll
|   |       |       Microsoft.CodeAnalysis.CSharp.Scripting.dll
|   |       |       Microsoft.CodeAnalysis.dll
|   |       |       Microsoft.CodeAnalysis.Scripting.dll
|   |       |       Microsoft.CodeAnalysis.VisualBasic.dll
|   |       |       Microsoft.CSharp.Core.targets
|   |       |       Microsoft.DiaSymReader.Native.amd64.dll
|   |       |       Microsoft.DiaSymReader.Native.x86.dll
|   |       |       Microsoft.VisualBasic.Core.targets
|   |       |       System.AppContext.dll
|   |       |       System.Collections.Immutable.dll
|   |       |       System.Diagnostics.StackTrace.dll
|   |       |       System.IO.FileSystem.dll
|   |       |       System.IO.FileSystem.Primitives.dll
|   |       |       System.Reflection.Metadata.dll
|   |       |       vbc.exe
|   |       |       vbc.exe.config
|   |       |       vbc.rsp
|   |       |       VBCSCompiler.exe
|   |       |       VBCSCompiler.exe.config
|   |       |
|   |       \---RoslynLatest
|   |               csc.exe
|   |               csc.exe.config
|   |               csc.rsp
|   |               csi.exe
|   |               csi.exe.config
|   |               csi.rsp
|   |               Microsoft.Build.Tasks.CodeAnalysis.dll
|   |               Microsoft.CodeAnalysis.CSharp.dll
|   |               Microsoft.CodeAnalysis.CSharp.Scripting.dll
|   |               Microsoft.CodeAnalysis.dll
|   |               Microsoft.CodeAnalysis.Scripting.dll
|   |               Microsoft.CodeAnalysis.VisualBasic.dll
|   |               Microsoft.CSharp.Core.targets
|   |               Microsoft.DiaSymReader.Native.amd64.dll
|   |               Microsoft.DiaSymReader.Native.x86.dll
|   |               Microsoft.Managed.Core.targets
|   |               Microsoft.VisualBasic.Core.targets
|   |               Microsoft.Win32.Primitives.dll
|   |               System.AppContext.dll
|   |               System.Collections.Immutable.dll
|   |               System.Console.dll
|   |               System.Diagnostics.DiagnosticSource.dll
```

```
|   |                       System.Diagnostics.FileVersionInfo.dll
|   |                       System.Diagnostics.StackTrace.dll
|   |                       System.Globalization.Calendars.dll
|   |                       System.IO.Compression.dll
|   |                       System.IO.Compression.ZipFile.dll
|   |                       System.IO.FileSystem.dll
|   |                       System.IO.FileSystem.Primitives.dll
|   |                       System.Net.Http.dll
|   |                       System.Net.Sockets.dll
|   |                       System.Reflection.Metadata.dll
|   |                       System.Runtime.InteropServices.RuntimeInformation.dll
|   |                       System.Security.Cryptography.Algorithms.dll
|   |                       System.Security.Cryptography.Encoding.dll
|   |                       System.Security.Cryptography.Primitives.dll
|   |                       System.Security.Cryptography.X509Certificates.dll
|   |                       System.Text.Encoding.CodePages.dll
|   |                       System.Threading.Tasks.Extensions.dll
|   |                       System.ValueTuple.dll
|   |                       System.Xml.ReaderWriter.dll
|   |                       System.Xml.XmlDocument.dll
|   |                       System.Xml.XPath.dll
|   |                       System.Xml.XPath.XDocument.dll
|   |                       vbc.exe
|   |                       vbc.exe.config
|   |                       vbc.rsp
|   |                       VBCSCompiler.exe
|   |                       VBCSCompiler.exe.config
|   |
|   +---Microsoft.jQuery.Unobtrusive.Validation.3.2.11
|   |   |   .signature.p7s
|   |   |   Microsoft.jQuery.Unobtrusive.Validation.3.2.11.nupkg
|   |   |
|   |   \---Content
|   |       \---Scripts
|   |               jquery.validate.unobtrusive.js
|   |               jquery.validate.unobtrusive.min.js
|   |
|   +---Microsoft.Web.Infrastructure.1.0.0.0
|   |   |   .signature.p7s
|   |   |   Microsoft.Web.Infrastructure.1.0.0.0.nupkg
|   |   |
|   |   \---lib
|   |       \---net40
|   |               Microsoft.Web.Infrastructure.dll
|   |
|   +---Modernizr.2.8.3
|   |   |   .signature.p7s
|   |   |   Modernizr.2.8.3.nupkg
|   |   |
|   |   +---Content
|   |   |   \---Scripts
|   |   |           modernizr-2.8.3.js
|   |   |
|   |   \---Tools
|   |           common.ps1
|   |           install.ps1
|   |           uninstall.ps1
|   |
|   +---Newtonsoft.Json.12.0.2
```

```
|   |   |       .signature.p7s
|   |   |       LICENSE.md
|   |   |       Newtonsoft.Json.12.0.2.nupkg
|   |   |
|   |   \---lib
|   |       +---net20
|   |       |       Newtonsoft.Json.dll
|   |       |       Newtonsoft.Json.xml
|   |       |
|   |       +---net35
|   |       |       Newtonsoft.Json.dll
|   |       |       Newtonsoft.Json.xml
|   |       |
|   |       +---net40
|   |       |       Newtonsoft.Json.dll
|   |       |       Newtonsoft.Json.xml
|   |       |
|   |       +---net45
|   |       |       Newtonsoft.Json.dll
|   |       |       Newtonsoft.Json.xml
|   |       |
|   |       +---netstandard1.0
|   |       |       Newtonsoft.Json.dll
|   |       |       Newtonsoft.Json.xml
|   |       |
|   |       +---netstandard1.3
|   |       |       Newtonsoft.Json.dll
|   |       |       Newtonsoft.Json.xml
|   |       |
|   |       +---netstandard2.0
|   |       |       Newtonsoft.Json.dll
|   |       |       Newtonsoft.Json.xml
|   |       |
|   |       +---portable-net40+sl5+win8+wp8+wpa81
|   |       |       Newtonsoft.Json.dll
|   |       |       Newtonsoft.Json.xml
|   |       |
|   |       \---portable-net45+win8+wp8+wpa81
|   |               Newtonsoft.Json.dll
|   |               Newtonsoft.Json.xml
|   |
|   \---WebGrease.1.6.0
|       |   .signature.p7s
|       |   WebGrease.1.6.0.nupkg
|       |
|       +---lib
|       |       WebGrease.dll
|       |
|       \---tools
|               WG.EXE
|
\---S1L03
|   ClassDiagram1.cd
|   favicon.ico
|   Global.asax
|   Global.asax.cs
|   packages.config
|   S1L03.csproj
|   S1L03.csproj.user
```

```
|       S1L03.user
|       Web.config
|       Web.Debug.config
|       Web.Release.config
|
+---App_Data
|           OverviewNotes.txt
|
+---App_Start
|           BundleConfig.cs
|           FilterConfig.cs
|           RouteConfig.cs
|
+---bin
|   |       Antlr3.Runtime.dll
|   |       Antlr3.Runtime.pdb
|   |       Microsoft.CodeDom.Providers.DotNetCompilerPlatform.dll
|   |       Microsoft.CodeDom.Providers.DotNetCompilerPlatform.xml
|   |       Microsoft.Web.Infrastructure.dll
|   |       Newtonsoft.Json.dll
|   |       Newtonsoft.Json.xml
|   |       S1L03.dll
|   |       S1L03.dll.config
|   |       S1L03.pdb
|   |       System.Web.Helpers.dll
|   |       System.Web.Helpers.xml
|   |       System.Web.Mvc.dll
|   |       System.Web.Mvc.xml
|   |       System.Web.Optimization.dll
|   |       System.Web.Optimization.xml
|   |       System.Web.Razor.dll
|   |       System.Web.Razor.xml
|   |       System.Web.WebPages.Deployment.dll
|   |       System.Web.WebPages.Deployment.xml
|   |       System.Web.WebPages.dll
|   |       System.Web.WebPages.Razor.dll
|   |       System.Web.WebPages.Razor.xml
|   |       System.Web.WebPages.xml
|   |       WebGrease.dll
|   |
|   \---roslyn
|               csc.exe
|               csc.exe.config
|               csc.rsp
|               csi.exe
|               csi.exe.config
|               csi.rsp
|               Microsoft.Build.Tasks.CodeAnalysis.dll
|               Microsoft.CodeAnalysis.CSharp.dll
|               Microsoft.CodeAnalysis.CSharp.Scripting.dll
|               Microsoft.CodeAnalysis.dll
|               Microsoft.CodeAnalysis.Scripting.dll
|               Microsoft.CodeAnalysis.VisualBasic.dll
|               Microsoft.CSharp.Core.targets
|               Microsoft.DiaSymReader.Native.amd64.dll
|               Microsoft.DiaSymReader.Native.x86.dll
|               Microsoft.Managed.Core.targets
|               Microsoft.VisualBasic.Core.targets
|               Microsoft.Win32.Primitives.dll
```

```
|              System.AppContext.dll
|              System.Collections.Immutable.dll
|              System.Console.dll
|              System.Diagnostics.DiagnosticSource.dll
|              System.Diagnostics.FileVersionInfo.dll
|              System.Diagnostics.StackTrace.dll
|              System.Globalization.Calendars.dll
|              System.IO.Compression.dll
|              System.IO.Compression.ZipFile.dll
|              System.IO.FileSystem.dll
|              System.IO.FileSystem.Primitives.dll
|              System.Net.Http.dll
|              System.Net.Sockets.dll
|              System.Reflection.Metadata.dll
|              System.Runtime.InteropServices.RuntimeInformation.dll
|              System.Security.Cryptography.Algorithms.dll
|              System.Security.Cryptography.Encoding.dll
|              System.Security.Cryptography.Primitives.dll
|              System.Security.Cryptography.X509Certificates.dll
|              System.Text.Encoding.CodePages.dll
|              System.Threading.Tasks.Extensions.dll
|              System.ValueTuple.dll
|              System.Xml.ReaderWriter.dll
|              System.Xml.XmlDocument.dll
|              System.Xml.XPath.dll
|              System.Xml.XPath.XDocument.dll
|              vbc.exe
|              vbc.exe.config
|              vbc.rsp
|              VBCSCompiler.exe
|              VBCSCompiler.exe.config
|
+---Content
|              bootstrap-theme.css
|              bootstrap-theme.css.map
|              bootstrap-theme.min.css
|              bootstrap-theme.min.css.map
|              bootstrap.css
|              bootstrap.css.map
|              bootstrap.min.css
|              bootstrap.min.css.map
|              Site.css
|
+---Controllers
|              HomeController.cs
|              PeopleController.cs
|
+---fonts
|              glyphicons-halflings-regular.eot
|              glyphicons-halflings-regular.svg
|              glyphicons-halflings-regular.ttf
|              glyphicons-halflings-regular.woff
|              glyphicons-halflings-regular.woff2
|
+---Models
|              PersonModel.cs
|
+---obj
|    \---Debug
```

```
|           |       .NETFramework,Version=v4.7.2.AssemblyAttributes.cs
|           |       DesignTimeResolveAssemblyReferencesInput.cache
|           |       MVCDemo.csproj.AssemblyReference.cache
|           |       MVCDemo.csproj.CopyComplete
|           |       MVCDemo.csproj.CoreCompileInputs.cache
|           |       MVCDemo.csproj.FileListAbsolute.txt
|           |       MVCDemo.csprojAssemblyReference.cache
|           |       MVCDemo.dll
|           |       MVCDemo.pdb
|           |       S1L03.csproj.AssemblyReference.cache
|           |       S1L03.csproj.CoreCompileInputs.cache
|           |       S1L03.csproj.FileListAbsolute.txt
|           |       S1L03.dll
|           |       S1L03.pdb
|           |
|           \---TempPE
+---Properties
|       AssemblyInfo.cs
|
+---Scripts
|       bootstrap.js
|       bootstrap.min.js
|       jquery-3.4.1.intellisense.js
|       jquery-3.4.1.js
|       jquery-3.4.1.min.js
|       jquery-3.4.1.min.map
|       jquery-3.4.1.slim.js
|       jquery-3.4.1.slim.min.js
|       jquery-3.4.1.slim.min.map
|       jquery.validate-vsdoc.js
|       jquery.validate.js
|       jquery.validate.min.js
|       jquery.validate.unobtrusive.js
|       jquery.validate.unobtrusive.min.js
|       modernizr-2.8.3.js
|
\---Views
|   Web.config
|   _ViewStart.cshtml
|
+---Home
|       About.cshtml
|       Contact.cshtml
|       Index.cshtml
|
+---People
|       ListPeople.cshtml
|
\---Shared
Error.cshtml
_Layout.cshtml
```