ASP.NET

Aleesha Kurian S4 MCA

WHAT IS ASP?

- ASP stands for Active Server Pages. It is also known as classic ASP.
- It is a server side technology provided by Microsoft which is used to create dynamic and user-friendly web pages.
- It uses different scripting languages to create dynamic web pages which can be run on any type of browsers.

WHAT IS ASP.NET?

- ASP.Net is a specification by Microsoft which is used to create web applications and web services.
- It is a part of .Net framework. You can create ASP.Net applications in most of the .Net compatible languages like Visual Basic, C# etc.
- ASP.Net provides much better performance than scripting languages.

ASP.NET v/s ASP

- ASP is interpreted, while ASP.Net is compiled.
- ASP uses VBScript, therefore when the ASP page is executed, it is interpreted.
- ASP.Net uses .Net languages like C# and VB.NET, which is compiled to Microsoft intermediate language.

Versions of ASP.NET

ASP.NET Version	Introduced with .NET & IDE
4.5. I	4.5.1 and Visual Studio 2013
4.5	4.5 and Visual Studio 2012
4.0	4.0 and Visual Studio 2010
3.5	3.5 and Visual Studio 2008
2.0	2.0 and Visual Studio 2005
1.1	I.I and Visual Studio .NET 2003
1.0	I.0 and Visual Studio .NET

Visual Studio as ASP.NET development tool

- Visual Studio is a development tool, which provides a rich environment where you can rapidly create advanced applications.
- Some of the features of Visual Studio include the following:
 - -Page design
 - -Automatic error detection
 - -Debugging tools

Features Of ASP.NET

- Windows and its dependence
- Object orientation
- Choice of language

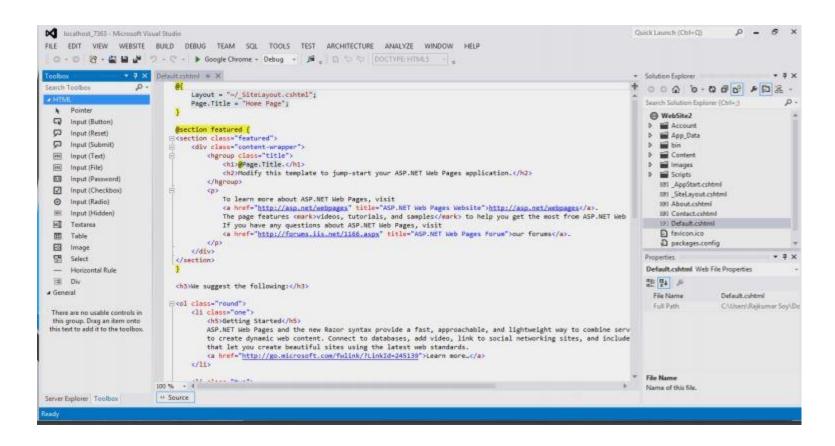
ASP.NET development models

- ASP.NET supports three different development models:
- Web Pages
- Web Forms
- * MVC (Model View Controller)

Web Pages (Single Pages Model)

- Web Pages is the simplest programming model for developing ASP.NET web pages. It provides an easy way to combine HTML, CSS, JavaScript and server code.
- ✓ Easy to learn, understand, and use
- ✓ Built around single web pages
- ✓ Full HTML, CSS, and JavaScript control

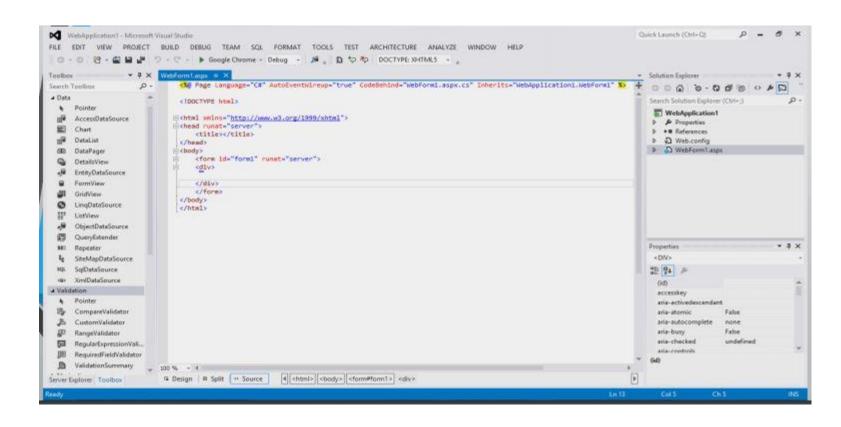
Web Page in Visual Studio



Web Forms (Event Driven Model)

- Web Forms is the oldest ASP.NET programming model, with event driven web pages written as a combination of HTML, server controls, and server code.
- Web Forms are compiled and executed on the server, which generates the HTML that displays the web pages.
- Web Forms comes with hundreds of different web controls and web components to build user-driven web sites with data access.

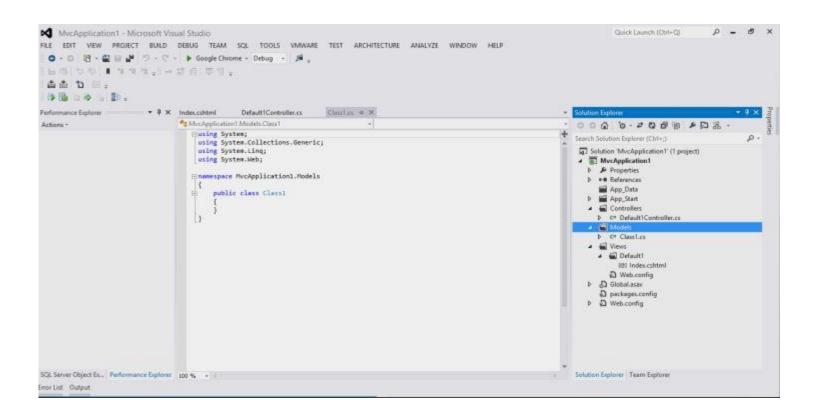
Web Form in Visual Studio



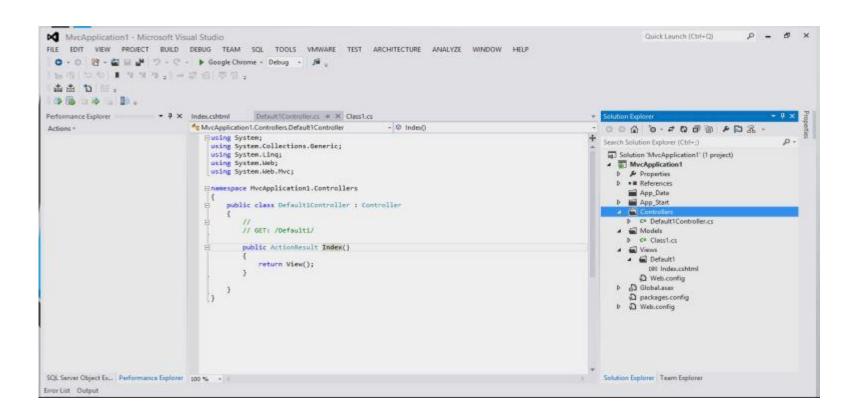
MVC (Model View Controller)

- MVC is a framework for building web applications using a MVC (Model View Controller) design:
- The Model represents the application core
- The View displays the data
- The Controller handles the input The MVC model also provides full control over HTML, CSS, and JavaScript.

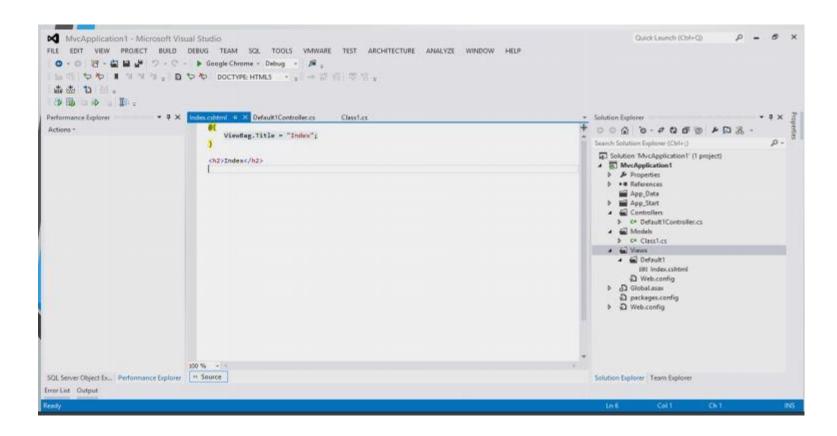
MVC Model



MVC Controller



MVC View



WEB Server Controls

- 1. Label
- 2. Text Box
- 3. Button
- 4. Check Box
- 5. Radio Button
 - 6. Image

Validation controls

- Required field validator
- Compare validator
- Range validator
- Regular Expression validator
- Custom validator
- Validation summary

Advantages

- Object Oriented
- Caching
- Easy Maintenance
- Time-Saving
- Simplicity
- Feature-Rich
- Monitoring

Disadvantages

- Limited Object Relational (OR) support
- Slower than Native Code
- Vendor lock-in
- Expensive

Conclusion

• ASP.net is a new technology and powerful web development language to build a web application much faster.