

Beginning ASP.NET 4.0 Using Visual Studio 2010

GWEASP1304
5 day

Table of Contents

- [Prerequisites](#)
- [Course Summary](#)

Prerequisites

- 1 year of Visual Basic.NET or C#.NET or equivalent programming language

Course Summary and Lessons

Introduction to Visual Studio.NET 2010

- New Features Overview
- Visual Studio Environment
- Project Templates
- ASP.NET Development Server
- Web Sites vs. Web Applications
- Form
- Div
- Span
- Table
- HR
- BR
- Input

HTTP and ASP

- Stateless Environment
 - Request / Response Paradigm
- ASP.NET Built in Object Overview and Definition
 - Request
 - Response
 - Server
 - Application
 - Session
 - ViewState
 - Cache
 - Error
- HTML – ASP server tag comparison
 - Form
 - Textbox
 - Buttons
 - DropDownList / ListBox
 - RadioButton / RadioButtonList
 - CheckBox / CheckBoxList

HTML

- Common tags
 - Body

Creating Web Forms

- Using the Designer
 - Setting design time properties
- Writing Code
 - Inline code
 - Code Behind overview
- Creating effective web forms

Linking to pages

- <A> tag
- HyperLink Control
- Response.Redirect vs. Server.Transfer

Using Controls

- Buttons
 - PostBackUrl
- List Controls
- Container Controls
- Wizard Control
- File Upload Control

C# / VB.NET Review

- Syntax
- Variables
- Keywords
- Statements
- Methods
- Properties
- Constructors
- Events

Creating Reusable Controls

- UserControl
- WebControl

Managing State

- Global.asax
- Session
- Application
- ViewState
- Cache
- Web.Config

Master Pages

- Creating a Master Page
- Nested Master Pages
- Page Templates
- Default Content PlaceHolders
- Dynamically assigning Master Pages

Cascading Style Sheets (CSS)

- Planning for CSS

- Creating a style rule
- Adding style to your page
 - <Link>
 - Embedded style
 - Inline style
- Adding style in code

Navigation

- Navigation controls

Validation Controls

- Required Field
- Regular Expression
- Range Validation
- Compare
- Validation Summary
- Grouping Validators

Sending Mail

- System.Net.Mail
- Sending mail asynchronously

Handling Exceptions

- Exception object
- Try...Catch...Finally
- Page_Error event
- Application_Error event
- Custom Errors (Web.Config)

Tracing

- Enabling Trace
- Web.Config trace settings
- Trace.axd
- Trace Object

HTTP Handler

- What are HTTP Handlers?
- Creating a HTTP Handler
 - Retrieving documents or images from a database

AJAX Overview

- AJAX Extensions
 - Script Manager
 - Update Panel
- AJAX Toolkit overview



JQuery Overview

- What is JQuery
- Using JQuery scripts
- Function()
- \$

Web Services Overview

- Creating a Web Service
- Consuming a Web Service

Deployment

- Deploying a Web Application
- Deploying a Web Site Project