Nutech Computer Training Institute

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Hands-on ASP.net Web Application

Schedule: Feb. 01, 2016 (Mon. 7pm- 10pm),
Total Hour: 60 hours
Tuition: $4000.00

The student after completing this ASP.NET Web Development training should have qualification as a web developer for ASP.NET.

1. Develop high-quality, interactive line-of-business and consumer applications using ASP.NET MVC, Windows Azure, HTML5, JavaScript, AJAX and CSS3.
2. Build modern, interactive web applications that seamlessly integrate with data-driven services.
3. Design and build application solutions that may include integrating multiple technologies and span multiple versions of a single technology-in the cloud or on-premises.
4. Effectively use visual studio .NET and gain working knowledge of the .NET framework and C# programming language.
5. Obtain Knowledge on Web and Cloud Computing technology.
6. Use Oracle as Database
7. Use .net to create Web Applications by using Oracle as back-end Database.

ASP.NET Course Syllabus

C#
☐ .NET and CLR
☐ Syntax and usage
☐ Web Development

Visual Studio IDE
. Develop, Debug and Deploy the Web applications or Web Services

HTML5
☐ Introduction & history
☐ Basic tags & attributes

JavaScript
☐ Introduction to JavaScript
☐ JS variables
☐ JS functions

CSS3
- ☐ Selectors
- ☐ Box model
- ☐ Backgrounds and borders
- ☐ Image values and replaced content
- ☐ Text effects
- ☐ 2d/d transformations
- ☐ Animations
- ☐ Multiple column layout
- ☐ User interface

Web programming concepts
- ☐ Introduction to web programming
- ☐ Client / server technology
- ☐ Understanding web server IIS

.Net platform
- ☐ Explore .net framework 4.5.x
- ☐ Understand common language runtime
- ☐ Learn about base class libraries
- ☐ Explain the difference between managed code and unmanaged code
- ☐ Exploring IDE-visual studio

Asp.net framework 4.5.x
- ☐ .Net framework
- ☐ The common language runtime (CLR)
- ☐ Frame class library
- ☐ Garbage collection
- ☐ MSIL
- ☐ Types of websites
- ☐ Intrinsic objects in asp.net

Console application
- ☐ C# language syntax
- ☐ Working with console class(input and output)
- ☐ Learn how to create C# datatype and variable
- ☐ Learn about data type conversions
- ☐ Working with operators
- ☐ Creating conditional and looping constructs
- ☐ Implementing methods and parameters
- ☐ Explain the difference between value types and reference types
- ☐ Learn how to implement string handling

Classes & Objects
- ☐ Classes and objects
- ☐ Methods, properties and events
- ☐ Constructors

- ☐ Property procedures
- ☐ Enumerations
- ☐ Reference vs. value types
- ☐ Structures
- ☐ Namespaces
- ☐ Dynamic and dynamic language runtime
- ☐ Abstract classes and interfaces
- ☐ The exception handling in .net 4.5

Arrays& collections
- ☐ Arrays
- ☐ Resizing arrays
- ☐ Arraylists & Hashtables
- ☐ Generic collections

Working with windows form ADO.NET (working with database)
- ☐ Overview of ADO.NET
- ☐ Connection object
- ☐ Command object
- ☐ Data readers
- ☐ Datasets & Dataadapters
- ☐ Using SQLdatasource
- ☐ Winforms with database connectivity

Webforms
- ☐ Web control class
- ☐ Creating webforms application
- ☐ Handling images
- ☐ Navigating between pages
- ☐ Managing server controls

Uploading files
- ☐ Using fileupload control
- ☐ Restrictions

Page life cycle events Validation controls
- ☐ Asp.net validation controls
- ☐ Configuring validation controls

Navigation controls
- ☐ Tree view control menu
- ☐ Sitemap control

State management
- ☐ Preserving state in web applications
- ☐ Using cookies to preserve state
- ☐ Asp.net session state
- ☐ Application state

Masterpages & Themes
- [ ] Simple master page
- [ ] Nested master page
- [ ] Configuring master page creating themes
- [ ] Applying themes
- [ ] Applying external stylesheet
- [ ] Working with template

Data controls Two tier architecture, Three tier architecture & Working with stored procedure
File I/O and streams
- [ ] Working with directories and files
- [ ] Read and write file

Xml/ Json
- [ ] Basics of XML and
- [ ] Create XML documents
- [ ] XMLreader and XMLwriter
- [ ] XML databinding
- [ ] XML datasource control

LINQ
- [ ] Introduction to LINQ
- [ ] LINQ to dataset
- [ ] LINQ to SQL
- [ ] LINQ to XML

Configuration
- [ ] Configuration overview
- [ ] Common configuration settings
- [ ] Connecting strings

Authentication and Authorization User controls
- [ ] Creating user controls
- [ ] Interacting with user controls
- [ ] Loading user controls dynamically

ASP.NET Webservices
- [ ] Introduction to XML WebServices
- [ ] Creating WebService
- [ ] Setting the WebService attribute
- [ ] Test and run your web service
- [ ] Consuming a web service in client application

Ajax
- [ ] Understanding Ajax technology
- [ ] How Ajax works
- [ ] Ajax server controls
- [ ] Ajax control toolkit

☐ Downloading and installation
☐ Building a ASP.Net page with Ajax

jQuery
☐ Introduction to jQuery
☐ jQuery effects
☐ jQuery html
☐ jQuery ajax
☐ Examples

IIS7
☐ Architecture of IIS7
☐ ☐ IIS manager
☐ Publishing web applications.
☐ Create web setup project.

Introduction to WPF & Silverlight
☐ Overview
☐ XAML

WCF
☐ Introduction to WCF
☐ Building a WCF service
☐ Building WCF client

MVC
☐ Introduction
☐ MVC application
☐ MVC folders
☐ MVC layout

Installation and deployment WEB application

Working with Microsoft Azure