



Developing Web _based Applications Using C#.NET and the MS .NET Framework

فلاصه : این دوره یک دوره علمی/کاربردی بوده که دانش پژوهان قادر خواهند بود که پس از اتمام این دوره در پروژه های Small Scale و Medium Scale شرکت داشته و سایتهای خود را به بانک های اطلاعاتی متصل ساخته و از این امکان بهره مند سازند. در این دوره فرض بر آن است که دانش پژوهان مفاهیم O.O.P را در دوره Windows_ Based فرا گرفته اند. در این دوره مفاهیم و فن آوری های مربوط به صفحات وب همراه با نمونه های برنامه کاربردی به دانش پژوهان آموزش داده خواهد شد و دانش پژوهان آمادگی لازم جهت شرکت در دوره Web Services را پیدا خواهند کرد.

مدت دوره: ۵۵ ساعت

پیش نیاز: Windows_ Based C#.NET

اهداف دوره:

در انتهای این دوره دانشمویان قادر خواهند بود:

- Explain the Microsoft .NET Framework and ASP.NET
- Create a component
- Create an ASP.NET Web application project by using Visual Studio .NET.
- Add server controls to an ASP.NET Web Form.
- Create and populate ASP.NET Web Forms.
- Add functionality to server controls that are on an ASP.NET Web Form.
- Use the Trace and Debug objects that are provided with Visual Studio .NET.
- Use validation controls to validate user input.
- Create a user control.
- Access data by using the built-in data access tools that are available in Visual Studio .NET.
- Use Microsoft ADO.NET to access data in an ASP.NET Web application.
- Accomplish complex data access tasks from an ASP.NET Web application.
- Access Extensible Markup Language (XML) data and read it into a Dataset.
- Call an XML Web service from an ASP.NET Web application and incorporate the returned data into a Web application.
- Store application and session data by using a variety of methods.
- Configure and deploy an ASP.NET Web application.

- ◆ **Creating a Web Application**
 - Visual Studio Web Site Types
 - Default Event Handling in Web Applications
 - Web Configuration Files
- ◆ **Programming a Web Application**
 - Event Handling in Web Applications
 - Browser Capability Detection
 - Page Header Retrieval
 - Page-Level and Application-Level Error Handling
- ◆ **Adding and Configuring Server Controls**
 - HTML Controls and Web Server Controls
 - Types of Web Server Controls
 - Working with Web Server Controls
 - The ASP.NET 2.0 Page Postback Model
- ◆ **Creating a Common Layout by Using Master Pages**
 - What Are Master Pages?
 - What Are Content Pages?
 - Nested Master Pages
- ◆ **Managing State for a Web Application**
 - ViewState Properties and ControlState Data
 - Application and Session Objects
 - Strategies for Managing Session State Data
 - The Cache Object
- ◆ **Accessing and Displaying Data**
 - Database Connections and the Web.Config File
 - Relational Data and Data Source Controls
- ◆ **Controlling Access to a Web Application**
 - Authentication for Web Applications
 - Authorization for Web Applications
 - Site Membership Systems Using the Membership Class
 - Web Site Security Administration Using the Roles Class
- ◆ **Deploying a Web Application**
 - Using the Publish Web Site utility to deploy a precompiled version of the Web application
- ◆ **Building Dynamic Web Applications**
 - Dynamic Control Creation
 - Localization and Globalization
 - Dynamic Master Pages
 - Dynamic Web Configuration
- ◆ **Creating Controls for Web Applications**
 - User Controls
 - Custom Web Server Controls
 - Composite Web Server Controls
 - Templated Controls
- ◆ **Optimizing Web Application Performance**
 - The Page Scripting Object Model
 - Tracing and Instrumentation in Web Applications
 - ASP.NET 2.0 Caching Techniques
 - Asynchronous Processing in Web Applications
- ◆ **Implementing Personalization and Themes in Web Applications**
 - ASP.NET 2.0 Personalization Features
 - Theme Support in ASP.NET 2.0