



Course Brochure

ASP.NET

Overview

•Microsoft designed the ASP.NET technology, as part of its overall .NET strategy, to provide a very powerful platform for developing distributed Web applications. The instructional strategy for this course emphasizes project based learning, practice real-life problem solving skills and getting started with Asp.Net 3.5 programming using VS 2008 as quickly as possible.

Pre-requisites

•Prior .NET experience is preferred, but not required.A working knowledge of Visual C# is assumed.

Applications

COURSE CONTENTS

INTRO TO WEB PROGRAMMING

- ❖ What is internet, Web Site, Web Request, Web Response? Web Architecture
- ❖ Client side web technologies (vs) Server side web technologies

CLIENT SIDE WEB TECHNOLOGIES

- ❖ HTML, CSS, Javascript

ASP.NET WEB FORMS BASICS

- ❖ Classic ASP (vs) ASP.NET
- ❖ Cross-page submission (vs) ASP.NET Postback
- ❖ Creating ASP.NET Web Site and Web Forms
- ❖ Programming Model of Web Forms
- ❖ Need of web.config

ASP.NET IMPLICIT OBJECTS

- ❖ Request, Response

ASP.NET WEB CONTROLS

- ❖ Intro to ASP.NET Web Controls
- ❖ Standard Web Controls
 - Post back
 - Generating controls dynamically
 - Validation Controls

DATA CONTROLS

- ❖ GridView indepth
- ❖ DataList
- ❖ Repeater
- ❖ FormView
- ❖ DetailsView
- ❖ SqlDataSource

STATE MANAGEMENT

- ❖ Session
- ❖ Application

- ❖ Data Cache
- ❖ Query String
- ❖ View State
- ❖ State-less (vs) State-full
- ❖ Response.Redirect (vs) Server.Transfer
- ❖ Session state modes

NAVIGATION CONTROLS

- ❖ Web.SiteMap
- ❖ Menu, Tree View, Site Map Path

MASTER PAGES

- ❖ Creating master pages and content pages
- ❖ Working with Content Place Holders

THEMES AND SKINS

- ❖ Creating themes
- ❖ Creating .css and .skin files
- ❖ Applying themes dynamically

WEB USER CONTROLS

- ❖ Creating Web User controls
- ❖ Invoking web user controls statically and dynamically

IIS AND DEPLOYMENT

- ❖ IIS Architecture
- ❖ Installing and configuring IIS
- ❖ Creating IIS Application
- ❖ Deploying Web Sites into Local IIS

Global.asax & HttpApplication Class

- ❖ Introduction to Global.asax
- ❖ Events of HttpApplication Class

Configuration File – Web.config

- ❖ Web.config Locations
- ❖ About Configuration, Tracing, CustomErrors

COURSE CONTENTS

ASP.NET PAGE LIFE CYCLE

- ❖ Page life cycle Architecture
- ❖ How web controls processed at server side
- ❖ Page events

WEB CACHING

- ❖ Output Caching
- ❖ Fragment Caching
- ❖ Substitution Caching
- ❖ Data Caching
- ❖ Caching Expire Policies of Data Cache

SECURITY – AUTHENTICATION AND AUTHORIZATION

- ❖ Forms based authentication
- ❖ Windows based authentication
- ❖ Overview of Open authentication

INTERNATIONALIZATION

- ❖ Globalization (vs) Localization
- ❖ Creating Global resources
- ❖ Applying culture dynamically

ASP.NET AJAX EXTENSIONS

- ❖ Script Manager, Update Panel
- ❖ Update Progress, Timer

ASP.NET AJAX CONTROL TOOLKIT

- ❖ How to download and import
- ❖ Toolkit Script Manager
- ❖ Important AJAX Toolkit Controls

WEB SERVICES

- ❖ Creating and consuming Web Services
- ❖ Need of XML, WSDL, SOAP in Web Services

WCF

- ❖ Web Services (vs) WCF
- ❖ Creating and consuming Simple WCF Services
- ❖ Deploying WCF Services in Local IIS
- ❖ Self Hosting Application
- ❖ Contracts
 - Service Contract
 - Operation Contract
 - Data Contract