



ASP.net

ASP.NET Syllabus



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Web Programming Introduction

- ❖ Understanding role of Web Server and Web Browser.
- ❖ Brief about HTTP Protocol.
- ❖ HTTP Request structure.
- ❖ Form Tag and comparison between Get and Post methods.
- ❖ HTTP Response Structure

HTML and JavaScript

- ❖ Understanding HTML Form Tag and elements within it.
- ❖ Javascript using Sample Programs.

Traditional ASP Basics

- ❖ Introduction to ASP.
- ❖ How ASP Works.
- ❖ ASP Objects.
- ❖ Installing IIS on Windows 7 & Windows 8.
- ❖ Sample Programs.
- ❖ Importance's of Form tag and how it works.

ASP.NET Introduction & Controls

- ❖ ASP.NET Introduction
- ❖ First ASP.NET Application.
- ❖ Auto Postback Property.
- ❖ Event Handler Parameters.
- ❖ Dynamically initializing Controls
- ❖ IsPostBack property of Page class
- ❖ ListControls
- ❖ Comparison between HtmlControls and WebControls
- ❖ Control Properties and Methods
- ❖ FileUpload Control

ASP.NET Architecture

- ❖ What is AppDomain?
- ❖ Life Cycle of ASP.NET Page
- ❖ How Control Manages its State
- ❖ What is EnableViewState
- ❖ How Control raises events
- ❖ Event handling in Web Forms
- ❖ Writing Custom Classes in WebApplication

CSS & Themes

- ❖ Work with CSS
- ❖ Use Themes to Customize a Site
- ❖ Name Skins within a Theme
- ❖ Do server-side Styles using Themes
- ❖ Add contents of a Theme and Skin
- ❖ Apply themes and Profiles .

Redirecting User to Another Page

- ❖ Redirecting Options
- ❖ Response.Redirect
- ❖ Server.Transfer
- ❖ Cross Page Postback
- ❖ Determine how the pages was invoked
- ❖ Passing values between pages

Master Pages

- ❖ Introduction to MasterPage
- ❖ ContentPlaceHolder and Content tags
- ❖ Accessing controls of MasterPage in ContentPage
- ❖ URL's in MasterPages
- ❖ UniqueID and ClientID

Working with User Control

- ❖ Overview of User Controls
- ❖ Creating a User Control
- ❖ Adding Properties to User Control
- ❖ Adding Events to User Control
- ❖ Using User Control in Web Form
- ❖ Rendering Clients Scripts Using Page.ClientScript methods

Validation Controls

- ❖ Base Validator
- ❖ Required Field Validator
- ❖ Compare Validator
- ❖ Range Validator
- ❖ Regular Expression Validator
- ❖ Custom Validator
- ❖ Causes Validation Property
- ❖ Grouping - Validation Group Property
- ❖ Page.Validators and Page.IsValid

ASP.NET State Management

- ❖ Static Members
- ❖ View State
- ❖ Hidden Field in Form
- ❖ Query String
- ❖ HttpContext
- ❖ Cookies-HttpCookie
- ❖ Sessions-HttpSessionState
- ❖ Application-HttpApplicationState
- ❖ Summary of All Features

WebConfiguration File and Global.asax

- ❖ Introduction to Configuration files
- ❖ Page setting in web.config
- ❖ Custom Errors
- ❖ URL Re-Writing
- ❖ Tracing
- ❖ Using ConfigSource Attribute
- ❖ Using Location Section
- ❖ HttpApplication class-Global.asax

Authentication & Authorization

- ❖ What is Authentication and Authorization
- ❖ Types of Authentication
- ❖ Forms Authentication
- ❖ Role based Authentication
- ❖ Windows and Basic Authentication
- ❖ What is ASP.NET Impersonation
- ❖ Using location section in web.config

Application Service Providers

- ❖ ASP.NET Providers Introduction
- ❖ Membership Providers
- ❖ Role Providers
- ❖ Writing Custom Providers
- ❖ Profile Providers
- ❖ Web Parts Personalization Providers

Data Bound Controls

- ❖ Databinding traditional way
- ❖ SqlDataSource
- ❖ GridView
- ❖ DetailsView
- ❖ FormView
- ❖ DataList
- ❖ Repeater
- ❖ ListView
- ❖ DataPager

Web Caching

- ❖ Why Caching
- ❖ Types of Caching
 - i. Output Caching
 - ii. Fragment Caching
 - iii. Substitution Caching
 - iv. Data Caching
- ❖ SQL Cache Invalidation

Globalization and Localization

- ❖ Definitions
- ❖ Creating Resource files for different cultures
- ❖ Designing the WebForm & linking controls to keys in Resource files
- ❖ Alternatives to initialize culture settings of the page.

AJAX.NET

- ❖ What is AJAX
- ❖ What is AJAX.NET
- ❖ Script Manager
- ❖ Update Panel
- ❖ Update Progress
- ❖ Timer
- ❖ AJAX Control Toolkit

Routing

- ❖ What is Routing?
- ❖ Mapping Route to Physical file
- ❖ Reading Route Parameters
- ❖ Route Expression
- ❖ Generate URL using Markup

Understanding & Publishing Web Application

- ❖ Introduction to ASP.NET Web Application
- ❖ Advantages of IIS Applications
- ❖ Creating web application in IIS
- ❖ Converting File System application to IIS Application
- ❖ Using Virtual Directory
- ❖ Publishing ASP.NET Website
- ❖ Culture specific formatting

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