

ASP.NET WebForms Training Syllabus

Overview of Web and related terminology

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HTML and JavaScript

1. HTML and JavaScript Overview

Introduction to ASP

1. ASP Architecture
2. ASP Objects
3. Request and Response Structure
4. Forms and Querystring

First ASP.NET Application

1. Introduction
2. Comparison with HTML Form
3. Understand ASPX and Code file relationship
4. Role of ASP.NET Development Server / IIS
5. Event Handling
6. Page.IsPostBack and Control.AutoPostBack

Web Forms Architecture

1. Understanding Application Pool and AppDomain
2. Page Processing Life Cycle
3. Event Model
4. View State Management
5. Role of App_Code folder

Using Web Controls

1. HTML Server Controls
2. Standard ASP.NET Server Controls
3. ASP.NET Basic Controls

Validation Controls

1. Validation Summary
2. Required Field Validator
3. Compare Validator
4. Range Validator

5. Regular Expression Validator
6. Custom Validator

Page Navigation Options

1. Response.Redirect
2. Server.Transfer
3. Cross Page Postback

Web User Controls

1. Developing Controls
2. Customizing using Properties
3. Using UC in ASPX pages
4. Use of ClientScript class
5. Understanding ClientId and UniqueId

Creating a Layout Using Master Pages

1. URL Rebasing in a Master Page
2. Accessing a Master Page from Code
3. Nesting Master Pages
4. Master and Content Pages

Applying Themes and Styles to Controls

1. Working with CSS
2. Using Themes to Customize a Site
3. Named Skins within a Theme
4. Server-side Styles using Themes
5. Contents of a Theme and Skin
6. Themes and Profiles

ASP.NET State Management

1. ViewState Object
2. Cookies
3. Session Management
4. Application State
5. HttpContext
6. Static / Shared Members

ASP Intrinsic Objects

1. Request and Response
2. Session Objects
3. Application Objects
4. Server and Context

ASP.NET Web Application

1. Creating Virtual Directories
2. Global.asax & Managing Application Events
3. HttpApplication Instance
4. HTTP Handlers and creating Custom Handler
5. URL Redirection

Data Access Controls

1. Data Binding Server Controls
2. SqlDataSource, ObjectDataSource
3. GridView
4. DetailsView and FormView
5. Data List and Repeater

Caching

1. Overview
2. Page Output Caching
3. Page Fragment Caching
4. Data Caching
5. SQL Cache Invalidation
 1. Notification-based Invalidation
 2. Polling-based Invalidation
6. Expiration Policies and Cache Dependencies

Configuration

1. Configuration Overview
2. Machine.Config and Web.Config
3. Inheritance of Configuration Settings
4. Configuration File Format
5. Retrieving Application Configuration Data and database connection strings
6. CacheProfile
7. URL Rewriting - (Programmatically and using config files)
8. Custom Error Handling.

Trace Functionality

1. Overview of Tracing
2. Trace Information
3. Page-Level Trace
4. Application-Level Trace

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Security

1. Authentication & Authorization
2. Windows Based Authentication
3. Form Based Authentication
4. Authorizing Users and Roles
5. Impersonation
6. Using Login Controls
7. ASP.NET Membership and Roles
8. Securing Non-ASP.NET files

Globalization and Localization

1. Request and Response Encoding
2. Local and Global Resources
3. Implicit Expressions to Local Resources
4. Explicit Expressions to Local Resources
5. Programmatic Access to Global Resources
6. Localizing Static Content
7. Storing Language Preferences
8. Right to Left Mirroring
9. Culture specific formatting

Personalizing Using Web Parts

1. Webpart Controls
2. Editing Webparts
3. Custom Webparts using UserControl
4. Personalizing

AJAX.NET

1. Architecture
2. Working with AJAX Pro
3. Using AJAX.NET Controls