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ASP.NET Course Syllabus

1. 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

2.HTML & JavaScript

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

3.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.

4.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

5.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

6.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.

7. Redirecting User to Another page

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

8. Master Pages

- Introduction to MasterPage
- ContentPlaceHolder and Content tags

- Accessing controls of MasterPage in ContentPage
- URL's in MasterPages
- UniqueID and ClientID

9. 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

10. 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

11. 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

12. Web Configuration file & 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

13. 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

14. Application Service Providers

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

15. Data Bound Controls

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

16. Web Caching

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

17. Globalization & 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.

18. AJAX.NET

- What is AJAX
- What is AJAX.NET

- Script Manager
- Update Panel
- Update Progress
- Timer
- AJAX Control Toolkit

19. Routing

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

20. Understanding & Publishing Web Applications

- 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