

# Deccansoft Software Services

(A Microsoft Learning Partner)

## ASP.NET Web Forms

### Module 1: Web Programming Introduction

In this chapter you will get clear idea about how the browser and Server gets communicating with each other, life cycle of http, about the http protocol and also the importance of get and post method.

- ❖ Web Introduction And Terminology

### Module 2: HTML and JavaScript

At the end of these you will get overall idea about HTML and JavaScript and also you will know how to handle JavaScript Events like mouse Events, how to change styles and the debugging techniques and also you will know how to perform client side validations and the importance of timer and windows DOM objects.

- ❖ HTML
- ❖ Java script in Body of Document
- ❖ Java Script Event Handling
- ❖ Java Script Mouse Event This Style And Debugging
- ❖ Java Script Client Side Validation
- ❖ Java Script Timer Windows Library

### Module 3: Traditional ASP Basics

Here you learn the difference between ASP and ASP.NET and you will know what are the ASP objects, how ASP works and you will get the idea how IIS will install on window operating system.

- ❖ ASP Introduction and Sample Programs
- ❖ Programming Form in ASP

### Module 4: ASP.NET Introduction & Controls

In this chapter you will get complete knowledge on ASP.NET server side controls, how to handle Events of controls and the importance about IsPostBack property.

- ❖ ASP Introduction and First Application
- ❖ Event Handling of Controls
- ❖ Listbox Control and Page IsPostBack Property
- ❖ Understanding Control Properties and Events

**Module 5: ASP.NET Architecture**

In this chapter you will learn about Life cycle of web form, Life cycle of page and also how ViewState manages state of the page.

- ❖ ASP.NET Page Life Cycle
- ❖ Page Event and Control Manages its States
- ❖ Control and Page Event Handling
- ❖ Writing and Using Custom Classes in Web Application

**Module 6: CSS & Themes**

In this topic you are going to learn how to use themes and also you learn here how the css styles can be added to the controls.

- ❖ Cascading Style Sheets
- ❖ Working with Themes

**Module 7: Redirecting User to another Page**

In this chapter you will learn how user can able to redirect to other pages as part of your Web application. Here you will get clear idea about how ASP.NET provides the ways to you to get redirection into multiple Web pages.

- ❖ Redirecting Options
- ❖ Passing Data From Source To Target Page

**Module 8: Master Pages**

In this chapter you will learn how ASP.NET master pages allow us to create a consistent layout for the pages in our application.

- ❖ Creating and Using Master Page
- ❖ URL's in Master Page
- ❖ ClientID Mode UniqueID and ClientID Screen

**Module 9: Working with User Control**

Here in this chapter you will learn how to create a user control and use of it. You will get to know how user controls can be reused for both User Interface and Code at different places.

- ❖ Developing and Using User Control

**Module 10: Validation Controls**

In this chapter we are going to learn the validation controls available in ASP.NET and why they are frequently used in every web form.

- ❖ Using Validation Controls Part-I
- ❖ Using Validation Controls Part-II

### **Module 11: ASP.NET State Management**

In this chapter you will learn how Cookies will be used within the current session, various types of Cookies can be used and how Session object will be used within the current session and how an Application Object will be maintained in the server.

- ❖ Using Static Members
- ❖ ViewState and HiddenField
- ❖ QueryString & HttpContext
- ❖ Understanding Cookies
- ❖ Programming Cookies
- ❖ Authentication using Cookies
- ❖ Cookie Dictionary
- ❖ Understanding and Using Sessions
- ❖ Session Properties
- ❖ Application Object and Summary

### **Module 12: WebConfiguration File and Global.asax**

This chapter deals with how an application settings can be provided in Web.Confile file and the use of each and every section in that file and also we are going to discuss in this about Global.asax which contains the event handlers of HttpApplication object.

- ❖ Configuration File Introduction
- ❖ Custom Errors
- ❖ Url – Rewriting
- ❖ Tracing
- ❖ Config Source Attribute and Location Tag
- ❖ Global ASAX

### **Module 13: Authentication & Authorization**

Here in this chapter you are going to learn how a secured Web application can be created using authentication and also you will learn how many types of authentication techniques we have in ASP.NET.

- ❖ Forms Authentication
- ❖ Role based Authorization
- ❖ Windows Authentication
- ❖ Impersonation
- ❖ Location Tag

#### **Module 14: Application Service Providers**

In this chapter you will learn about Membership and Role Provider offers individual or access at management over the internet. It is required where you need to provide services for storing state in databases and various storage media.

- ❖ Membership and Role Provider
- ❖ Customizing Login Controls and Custom Membership Providers
- ❖ Profile Provider

#### **Module 15: Data Bound Controls**

In this chapter you are going to learn how data is presented to the user using GridView, DetailView, ListView and importance of these controls.

- ❖ GridView and SQL DataSource
- ❖ GridView Fields
- ❖ DetailView
- ❖ Template Field
- ❖ Template Field and Handling Null Values
- ❖ List View
- ❖ Object Data Source With N-Tier Arch Applications

#### **Module 16: Web Caching**

Here in this chapter you will get to know about how a high-performance Web application should be designed with caching in mind.

- ❖ Output Caching
- ❖ Fragment & Substitution Caching
- ❖ Data Caching
- ❖ SQL Cache Invalidation

#### **Module 17: Globalization and Localization**

In this chapter you will get clear idea about how to create resource files for different cultures. This is required when you want to create an application that meets the needs of users from multiple cultures and also you will learn how to accommodate these cultural differences in your application.

- ❖ Globalization & Localization

### **Module 18: AJAX.NET**

This is very useful chapter for you, in this you learn how to make asynchronous calls for a particular task. In many cases you need not to get the fresh page when requested for the particular content every time, you can be there in same page and get the required content easily this can be done by Ajax.

- ❖ AJAX Introduction
- ❖ Update Panel and Update Progress
- ❖ Timer Control and Script Manager
- ❖ Ajax Control Toolkit

### **Module 19: Routing**

In this chapter you are going to learn how default URLs are mapped to user friendly URLs. You will learn how URLs will convert to meaningful and descriptive which will be easy to remember and will improve the search engine rank.

- ❖ Routing

### **Module 20: Understanding & Publishing Web Application**

In this chapter you are going to learn advantages of IIS applications, how to create a web application in IIS, the use of Virtual directory and finally you will learn how to publish an ASP.NET Website.

- ❖ Understanding and Publishing Web Application