

# **ASP.NET, C#**

**Active Server Pages (ASP)**, also known as Classic ASP, was introduced in 1998 as **Microsoft**'s first server side scripting engine. ASP is a technology that enables scripts in web pages to be executed by an Internet server. ASP pages have the file extension .asp, and are normally written in VBScript.

ASP.NET is a new ASP generation. It is not compatible with Classic ASP, but ASP.NET may include Classic ASP.ASP.NET pages are compiled, which makes them faster than Classic ASP.ASP.NET has better language support, a large set of user controls, XML-based components, and integrated user authentication.ASP.NET pages have the extension .aspx, and are normally written in VB (Visual Basic) or C# (C sharp).

User controls in ASP.NET can be written in different languages, including C++ and Java.

#### > Introduction to Dot Net

- What is .net
- Why .net
- Drawback with Earlier Technologies
- Advantages of .net

## What is .net Architecture

- Introduction to CLR
- CLR Architecture
- JIT compiler
- MSIL
- Understanding of IL with ILDASM

## > .Net Framework

- Net framework
- Version of framework
- Common class library
- Common type system
- Common language specification
- Languages under .net

## Introduction to OOP'S

- Concept of Class & Objects
- Component inside class
- Data Types
- Type conversion



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- Working with constructor
- Understanding of Inheritance
- Need of Inheritance
- Virtual and Abstract methods
- Details of polymorphism
- Method Overloading and overriding
- Working With collection(Array list, Hash table, stack, queue, etc)

# Understanding of INTERFACE & DELIGATE class

- What is Interface and Delegate class
- Implementation of Iclass and Delegate

## > File Handling

- System.IO namespace
- Stream Reader & Stream Writer Class
- Reading and Writing with files

## Exception Handling

- Introduction
- Try..catch... Statements
- create custom exceptions
- Throw an exception using throw statement

#### SQL Database

- Concept of DBMS
- Introduction of RDBMS
- Difference between DBMS &RDBMS
- Concept of creating DataBase & Table
- Working on Data Table with SQL Query

### Constraint

- Introduction to Constraint
- Types of constraints
- Implementation of Constraints

## SQL Joins

- Concept of JOIN statements
- INNER Joins
- OUTER Joins



- SELF Joins
- CROSS Joins

#### Stored Procedure

- Concept of Stored procedure
- How to Create Stored procedure
- How to implement Stored Procedure

## Creating &using Trigger

- Introduction to Trigger
- Creation of trigger
- Dropping of trigger

#### SQL Function

• Introduction to Function

# Complex SQL Quires

• Example of Complex quires

## Working with VISUAL STUDIO(Web Application)

- Introduction to web programming
- Client /server Technology over Internet
- How internet and Intranet works
- Client side script vs. Server side scripts
- Understanding the Importance of Web server
- creating and working with virtual directory in IIS
- Introduction to ASP.net Page life cycle

## > ASP.net Server Controls

- Standard Controls
- Navigation Control
- Data controls
- Hyperlink, Image, Menu
- Validation Controls
- Group Validation Control

## State Management in ASP.net(SMS)



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- Introduction to State management services
- Client side SMS
- Server Side SMS
- View, Hidden Field & Cookies
- Session & Application
- Type of session modes

# Working with Master Page in ASP.net

- Concept of Master Page
- Creation of master page
- Implementation of Master page in Application

## Data Binding & Reporting in ASP.Net

- Data Binding with Data controls
- Using Data binder Eval() method Crystal reporting

## Caching

- Introduction to Caching
- Usages of Caching
- Data Caching based on control or parameter
- Setting cache duration

# Uploading & Downloading Files

- Upload files using upload Controls
- Restricting the type and size of file
- Download the file on click Event

# Mailing with Asp.Net

- Mail Message & SMTP Class
- Providing Security while sending mails

## Security in Asp.net Application

- Introduction
- Security with session object using Form Authentication

# Working with USER INTERFACE in ASP.net

- CSS
- HTML Tags
- Javascript

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• Jquery(Introduction only)