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Overview of the ASP.NET MVC

- Introduction of ASP.NET MVC

- Role of Model, View, and Controller

- How ASP.NET MVC Works

- Benefits of using ASP.NET MVC

- Comparison of ASP.NET VS ASP.NET MVC

- Summary

Getting started with MVC and its Action Result type

- Understanding the structure of an ASP.NET MVC project

- creating views

- Defining controllers

- Defining a data model

- Overview of coding standards follows during programming

- Types of Action Result in MVC

- Summary

Creating an application in MVC using Razor view engine

- Creating strongly-typed views

- Understanding URLs and action methods

- TempData, view Bag and View Data with example

- Data Annotations

- Validation in MVC

- Razor Basics and Implementation of Razor

- Accessing Model Data in Razor views

- Defining and using HTML Helpers

- Defining and Designing a layout Page

- Defining and using partial views

Using Ajax and Jquery with ASP.NET MVC

- Overview of AJAX

- Using AJAX Action Links

- Overview of jQuery

- jQuery Techniques

- Using post and get methods in jquery

- Using AJAX and Jquery in MVC with Example

Overview of Entity Framework and its Approches

- Over View of Entity Framework

- Code First Approach with example

- Model First Approach with example

- Database First Approach with example

Working with ASP .NET MVC Applications using EF Approches code first, Model first, Database First.

- ASP.NET application architecture best practices

- Implementing a Repository and Entity Framework Data Model

- Define Dependency Injection

- Using Dependency Injection

- Accessing a Repository in controller

Import and Export Excel file in MVC

- Basics of I/O classes in MVC

- Basics of input and output streams.

- Create the excel document with records and create the view to upload/import the excel

- How to import an excel from view to the database

- Export the Data from Database to excel

- Summary

Other Activities

Assessments

- **Objective Assessments**

    -- Syntactical based

    -- Scenario based

    Note: At least 2 objective based assessments in each module

- **Hands On – Practical Assessments**

    -- Scenario based

    Note: At least 2 Hands on assessments in each module

Assignments

- **Hands On – Practical Assignments**

    Note: At least 4 Hands on assignments in each module

Tasks – Home Work

- **Regular tasks on each module**

    Note: Tasks are focused more to improve self learning

Resume Support & Interview Preparation

- **Work on one or two mini projects**

- **Discuss and convert the current working project into .NET project to add in resume & to explain .NET experience in interviews**