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ASP.NET MVC Training Syllabus

Overview of the ASP.NET
- Introduction of different Web Technology
- What is ASP.NET MVC
- Role of Model, View, and Controller
- How ASP.NET MVC Works
- Benefits of using ASP.NET MVC
- Summary

Setting up and Installing ASP.NET MVC
- Installing Internet Information Server
- Installation of ASP.NET MVC
- Application Setting in IIS.
- Summary

Microsoft SQL Server 2012
- Overview of SQL Server 2012
- Installation of SQL Server 2012
- Features of SQL Server Express
- SQL Server 2008 Express management tools
- Summary

Getting Started with MVC
- ASP.NET MVC project templates
- Understanding the structure of an ASP.NET MVC project
- Naming conventions
- Creating views
- Defining controllers
- Defining a data model
- Overview of coding standards follows during programming
- Summary

Creating an application in MVC
- Creating strongly-typed views
- Understanding URLs and action methods
- Using HTML helpers
- Handling form post-backs
- Data validation

Razor View Engine
- Razor Basics
- Razor design goals
- Implementation of Razor view
- Razor syntax
- Accessing Model Data in Razor views

Strength ASP.NET MVC Applications
- ASP.NET application architecture best practices
- Implementing a Repository and Entity Framework Data Model
- Using Dependency Injection
- Implementing a custom controller factory

View Techniques
- Defining and using custom HTML Helpers
- Defining a layout / MVC Master Page
- Using Styles

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- Defining and using partial views
- Razor Helper Method syntax

Implementing Navigation in MVC web apps

- Defining view-model classes
- Implementing Data Filtering in a Controller
- Understanding the Routing mechanism
- Adding custom entries to a route table
- Defining defaults, parameters, and validation
- Generating URLs and Hyperlinks
- Custom Route constraints

MVC State Management

- Using hidden fields
- Session and Application State
- Custom model bindings

Using AJAX and jQuery with ASP.NET MVC

- Overview of AJAX and ASP.NET MVC
- Unobtrusive AJAX
- Using AJAX Action Links
- Overview of jQuery
- jQuery Techniques
- Using jQuery UI

ASP.NET Web API with MVC

- Overview of the ASP.NET Web API
- Building servers and clients
- Content negotiation
- Validation
- Query able Interfaces
- Dependency Injection

FTP Management

- Understanding FTP
- Setting up FTP Server (Live)
- Uploading and downloading FTP contents
- Summary

Sending Emails

- Designing email panel
- How to send an email to various users
- Sending auto emails
- Summary

Deployment

- Deploying application on Web Server
- Summary

Live Project

- Getting customer's requirements
- Preparing database and business logics
- Developing application
- Testing and implementing the project
- Troubleshooting the project application after implementation
- Summary

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