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ASP Dot Net MVC Syllabus

- Introduction to ASP.NET MVC
- The role of the Model, View, and Controller
- Key benefits of ASP.NET MVC
- Getting Started with ASP.NET MVC
- ASP.NET MVC project templates
- Understanding the structure of an ASP.NET MVC project
- Creating views
- Defining controllers
- Defining a data model
- Creating a Complete ASP.NET MVC 4 Application
- Creating strongly-typed views
- Understanding URLs and action methods
- Using HTML helpers
- Handling form post-backs
- Data validation

❖ Loops

- Using the Razor View Engine
- Getting started with Razor

❖ Razor design goals

- Implementing a Razor view
- Razor syntax
- Accessing Model Data in Razor views
- Industrial-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
- 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
- Additional Techniques
- View Scaffold Templates
- Controller Scaffold Templates
- Global Filters
- Model binding
- Asynchronous Controllers
- 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 MVC & LINQ - working with Data
- Language features used in LINQ
- Creating simple LINQ queries
- Using LINQ queries in a Web application
- Defining a data repository
- Using LINQ to define a data access component
- ASP.NET MVC 4 Techniques & Best Practices
- View scaffold templates
- Controller scaffold templates
- Dependency injection
- 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
- Interview Preparation
- Personal Interview
- Group Discussion

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