

ASP.NET MVC 4 COURSE CONTENT

❖ **J QUERY:**

❖ **ENTITY FRAMEWORK:**

❖ **OVERVIEW OF ASP.NET MVC:**

- Overview of Model-View-Controller Design Pattern
- ASP.NET MVC Application Architecture
- Understanding the MVC Execution Process
- Building an ASP.NET MVC Application Using Visual Studio
- Visual Studio MVC Project Templates
- Using a web.config File

❖ **DEVELOPING CONTROLLERS:**

- Creating Controllers
- Defining Action Methods
- Mapping URLs to Action Methods
- Understanding ActionResult Types
- Working with ViewData and ViewBag

❖ **DEVELOPING VIEWS:**

- Creating Views
- Understanding View Engines
- Using the ASMX View Engine
- Using the Razor View Engines
- Using HTML Helpers
- Adding Validation
- Working with Strongly-Typed Views
- Mobile Applications

❖ **DEVELOPING MODELS:**

- Creating Model Classes
- Working with the Entity Framework
- Working with LINQ to SQL
- Using Scaffolding

❖ **ROUTING CONTROL:**

- Understanding Routing in ASP.NET MVC
- Defining URL Routes
- Registering Routes
- Adding Constraints to Routes
- Debugging Routes

❖ **SECURING MVC APPLICATIONS:**

- ASP.NET Security
- Windows vs Forms Authentication
- Configuring Authentication
- Configuring Authorization
- Building a Secure Web Site

- Defending against Attacks
- Cross-site Scripting
- Session Hijacking
- SQL Injection
- Input Forgery
- Ajax
- Areas
- BootStrap

❖ **DEPLOYING ASP.NET MVC APPLICATIONS:**

- Understanding Deployment Issues
- Required MVC Assemblies
- Server Requirements
- Configuring an ASP.NET Application for Deployment
- IIS Hosting

❖ **ENTITY FRAMEWORK CODE FIRST:**

- ORM Introduction
- Entity FrameWork Code First
- DB, Table creation using code first
- EF Annotations
- EF Manual Migrations
- EF Automatic Migrations
- EF Relationships
- OneToOne
- OneToMany
- ManyToOne
- DML using Stored Procedures
- EF DataBase Initializers

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