ASP.NET MVC 5 Web Uygulamaları Geliştirme

ASP.NET MVC 5 Web Uygulamaları Geliştirme eğitimi, katılımcılara .NET Core araçlarını ve teknolojilerini kullanarak gelişmiş ASP.NET Core MVC uygulamalarının nasıl geliştirileceğini öğretir.

Hedefler:

- Describe the Microsoft Web Technologies stack and select an appropriate technology to use to develop any given application.

- Design the architecture and implementation of a web application that will meet a set of functional requirements, user interface requirements, and address business models.

- Configure the pipeline of ASP.NET Core web applications using middleware, and leverage dependency injection across MVC application.

- Add Controllers to an MVC Application to manage user interaction, update models, and select and return Views.

- Develop a web application that uses the ASP.NET Core routing engine to present friendly URLs and a logical navigation hierarchy to users.

- Create Views in an MVC application that display and edit data and interact with Models and Controllers.

- Create MVC Models and write code that implements business logic within Model methods, properties, and events.

- Connect an ASP.NET Core application to a database using Entity Framework Core.

- Implement a consistent look and feel across an entire MVC web application.

- Write JavaScript code that runs on the client-side and utilizes the jQuery script library to optimize the responsiveness of an MVC web application.

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- Add client side packages and configure Task Runners.

- Run unit tests and debugging tools against a web application in Visual Studio 2017.

- Write an MVC application that authenticates and authorizes users to access content securely using Identity.

- Build an MVC application that resists malicious attacks.

- Use caching to accelerate responses to user requests.

- Use SignalR to enable two-way communication between client and server.

- Describe what a Web API is and why developers might add a Web API to an application.

- Describe how to package and deploy an ASP.NET Core MVC web application from a development computer to a web server.

Topics:

Exploring ASP.NET Core MVC

- Microsoft Web Technologies

- ASP.NET 4x

- ASP.NET Core MVC

Designing ASP.NET Core MVCWeb Applications

- Planning in the Project Design Phase

- Designing Models, Controllers, and Views

Configure Middlewares and Services in ASP.NET Core

- Configuring Middlewares

- Configuring Services

Developing Controllers

- Writing Controllers and Actions

- Configuring Routes

- Writing Action Filters

Developing Views

- Creating Views with Razor Syntax

- Using HTML Helpers and Tag Helpers

- Reusing Code in Views

Developing Models

- Creating MVC Models

- Working with Forms

- Validate MVC Application

Using Entity Framework Core in ASP.NET Core

- Introduction to Entity Framework Core

- Working with Entity Framework Core

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- Use Entity Framework Core to connect to Microsoft SQL Server

Using Layouts, CSS and JavaScript in ASP.NET Core MVC

- Using Layouts

- Applying CSS and JavaScript

- Using jQuery

Client-Side Development

- Applying Styles

- Using Task Runners

- Responsive design

Testing and Troubleshooting

- Testing MVC Applications

- Implementing an Exception Handling Strategy

- Logging MVC Applications

Managing Security

- Authentication in ASP.NET Core

- Authorization in ASP.NET Core

- Defending from Attacks

Performance and Communication

- Implementing a Caching Strategy

- Managing State

- Two-way communication

Implementing Web APIs

- Introducing Web APIs

- Developing a Web API

- Calling a Web API

Hosting and Deployment

- On-premise hosting and deployment

- Deployment to Microsoft Azure

- Microsoft Azure Fundamentals

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