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MVS3-9 - MOC 20486C - DEVELOPING ASP.NET MVC 5 WEB APPLICATIONS

Categoria: Visual Studio

INFORMAZIONI SUL CORSO





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Durata: 5 Giorni

Categoria: Visual Studio

Qualifica Istruttore: Microsoft Certified Trainer Dedicato a: Sviluppatore



OBIETTIVI

After completing this course, students will be able to:

- -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.
- -Create MVC Models and write code that implements business logic within Model methods, properties, and events.
- -Add Controllers to an MVC Application to manage user interaction, update models, and select and return Views.
- -Create Views in an MVC application that display and edit data and interact with Models and Controllers.
- -Run unit tests and debugging tools against a web application in Visual Studio and configure an application for troubleshooting.
- -Develop a web application that uses the ASP.NET routing engine to present friendly URLs and a logical navigation hierarchy to users.
- -Implement a consistent look and feel, including corporate branding, across an entire MVC web application.
- -Use partial page updates and caching to reduce the network bandwidth used by an application and accelerate responses to user requests.
- -Write JavaScript code that runs on the client side and utilizes the jQuery script library to optimize the responsiveness of an MVC web application.
- -Implement a complete membership system in an MVC web application.
- -Build an MVC application that resists malicious attacks and persists information about users and preferences.
- -Describe how to write a Microsoft Azure web service and call it from and MVC application.
- -Describe what a Web API is and why developers might add a Web API to an application.
- -Modify the way browser requests are handled by an MVC application.
- -Describe how to package and deploy an ASP.NET MVC web application from a development computer to a web server for staging or production.

PREREQUISITI

Before attending this course, students must have:

A minimum of two to three years of experience developing web-based applications by using Microsoft Visual Studio and Microsoft ASP.NET, proficiency in using the .NET Framework, and some familiarity with the C# language.



CONTENUTI

Module 1: Exploring ASP.NET MVC 5

-Overview of Microsoft Web Technologies

-Overview of ASP.NET

-Introduction to ASP.NET MVC 5

Lab : Exploring ASP.NET MVC 5

-Exploring a Photo Sharing Application

-Exploring a Web Pages Application

-Exploring a Web Forms Application

-Exploring an MVC Application

Module 2: Designing ASP.NET MVC 5 Web Applications

-Planning in the Project Design Phase

-Designing Models, Controllers, and Views

Lab : Designing ASP.NET MVC 5 Web Applications

-Planning Model Classes

-Planning Controllers

-Planning Views

-Architecting an MVC Web Application

Module 3: Developing ASP.NET MVC 5 Models

-Creating MVC Models

-Working with Data

Lab : Developing ASP.NET MVC 5 Models

-Creating an MVC Project and Adding a Model

-Adding Properties to MVC Models

-Using Data Annotations in MVC Models

-Creating a New Microsoft Azure SQL Database

Module 4: Developing ASP.NET MVC 5 Controllers

-Writing Controllers and Actions

-Writing Action Filters

Lab : Developing ASP.NET MVC 5 Controllers

-Adding an MVC Controller and Writing the Actions -Optional—Writing the Action Filters in a Controller

Module 5: Developing ASP.NET MVC 5 Views

-Creating Views with Razor Syntax

-Using HTML Helpers

-Re-using Code in Views

Lab : Developing ASP.NET MVC 5 Views

-Adding a View for Photo Display

-Adding a View for New Photos

-Creating and Using a Partial View

-Adding a Home View and Testing the Views



Module 6: Testing and Debugging ASP.NET MVC 5 Web Applications

-Unit Testing MVC Components

-Implementing an Exception Handling Strategy

Lab : Testing and Debugging ASP.NET MVC 5 Web Applications

-Performing Unit Tests

-Optional - Configuring Exception Handling

Module 7: Structuring ASP.NET MVC 5 Web Applications

-Analyzing Information Architecture

-Configuring Routes

-Creating a Navigation Structure

Lab : Structuring ASP.NET MVC 5 Web Applications

-Using the Routing Engine

-Optional—Building Navigation Controls

Module 8: Applying Styles to ASP.NET MVC 5 Web Applications

-Using Layouts

-Applying CSS Styles to an MVC Application

-Creating an Adaptive User Interface

Lab : Applying Styles to ASP.NET MVC 5 Web Applications

-Creating and Applying Layouts

-Applying Styles to an MVC Web Application

-Optional—Adapting Webpages for Mobile Browsers

Module 9: Building Responsive Pages in ASP.NET MVC 5 Web Applications

-Using AJAX and Partial Page Updates

-Implementing a Caching Strategy

Lab : Building Responsive Pages in ASP.NET MVC 5 Web Applications

-Using Partial Page Updates

-Optional—Configuring the ASP.NET Caches

Module 10: Using JavaScript and jQuery for Responsive MVC 5 Web Applications

-Rendering and Executing JavaScript Code

-Using jQuery and jQueryUI

Lab : Using JavaScript and jQuery for Responsive MVC 5 Web Applications

-Creating and Animating the Slideshow View

-Optional—Adding a jQueryUI ProgressBar Widget

Module 11: Controlling Access to ASP.NET MVC 5 Web Applications

-Implementing Authentication and Authorization

-Assigning Roles and Membership

Lab : Controlling Access to ASP.NET MVC 5 Web Applications

-Configuring Authentication and Membership Providers

-Building the Logon and Register Views

-Authorizing Access to Resources

-Optional—Building a Password Reset View

Module 12: Building a Resilient ASP.NET MVC 5 Web Application

-Developing Secure Sites

-State Management



Lab : Building a Resilient ASP.NET MVC 5 Web Application

-Creating Favorites Controller Actions

-Implementing Favorites in Views

Module 13: Implementing Web APIs in ASP.NET MVC 5 Web Applications

-Developing a Web API

-Calling a Web API from Mobile and Web Applications

Lab : Implementing Web APIs in ASP.NET MVC 5 Web Applications

-Adding a Web API to the Photo Sharing Application

-Using the Web API for a Bing Maps Display

Module 14: Handling Requests in ASP.NET MVC 5 Web Applications

-Using HTTP Modules and HTTP Handlers

-Using Web Sockets

Lab : Handling Requests in ASP.NET MVC 5 Web Applications

-Creating a SignalR Hub

-Creating a Photo Chat View

Module 15: Deploying ASP.NET MVC 5 Web Applications

-Deploying a Web Application

-Deploying an ASP.NET MVC 5 Web Application

Lab : Deploying ASP.NET MVC 5 Web Applications

-Deploying a Web Application to Microsoft Azure

-Testing the Completed Application

INFO

Materiale didattico: Materiale didattico in formato digitale Costo materiale didattico: incluso nel prezzo del corso a Calendario Natura del corso: Operativo (previsti lab su PC)