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ASP .NET

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About Course

ASP.NET is a free web framework for building great websites and web applications using HTML, CSS, and JavaScript. You can also create Web APIs and use real-time technologies like Web Sockets.

ASP.NET is used as backend and C# & VB.NET are used for frontend development.

ASP .NET

CURRICULUM

1 Introduction to ASP.NET

- Introduction
- What is ASP.NET Core?
- ASP.NET Core Features
- Advantages of ASP.NET Core
- MVC Pattern
- Understanding ASP.NET Core MVC
- ASP.NET Core vs. ASP.NET MVC vs. ASP.NET Web Forms

2 ASP.NET Core First Application

- ASP.NET Core Environment Setup
- ASP .NET Core First Application
- Project Layout
- Understanding Life Cycle of ASP.Net Core Request

3 Controllers & Action Methods

- Controllers Overview
- Action Methods and IActionResult object
- Passing data from Controller to View
- Understanding Action Selectors

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- Action Filters
- Building Custom Action Filters
- Middleware
- Asynchronous Action Methods

4 Views

- Introducing Razor View
- Advantages of Razor View
- Razor Syntax
- Types of Views
- Partial Views
- Layout Pages
- Special Views
- View Categorization based on Model

5 Helpers

- Html Helpers
- Built-In Html Helpers
- URL helpers
- Tag Helpers
- Custom Tag Helpers

6 Model Binding

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Html Form behavior
Model Binder Overview
DefaultModelBinder
Binding to Complex Classes
IFormCollection Model Binding
IFormFile Model Binder
Bind Attribute
TryUpdateModelAsync

7 Validations & Data Annotations

Data Annotations and Validations Overview
Validations with Data Annotation
Server Side and Client Side Validation
Custom Server side validation
Model level validation using IValidatableObject
Custom unobstrive Client side Validation
Remote Validation
Cookies
Sessions

8 Security

Authentication and Authorization
Implementing Security using ASP.NET Core Identity

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9 MVC and Entity Framework Core

- Basic CRUD Operations using Entity Framework
- Separation of work using BO Classes
- Writing Generic Class / Repository
- Caching in Repository

10 ASP.NET Core - Web Caching

- Cache Tag Helpers
- Memory Caching Introduction
- In-Memory Caching
- Response Cache
- Distributed Cache

11 Routing

- Url Routing Overview
- Custom Routes
- Attribute Routing
- Routing Constraints

12 Module Development

- Understanding Areas
- Adding Areas

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Defining Area Routes
Linking between Areas

13 Web API and JQuery Ajax

Introduction to Web API
AJAX implementation using JQuery
Calling the Web API with JQuery Ajax
Creating a Web API that Supports CRUD Operations using EF

14 Bundling & Minification

What is Bundling and Minification in ASP.net Core?
Bundler and Minifier Extension
How to Bundle your files
How to minify your Bundles
Convert to Gulp

psi
CERTIPORT A PEARSON VUE BUSINESS
PMP CERTIFICATION EXAM TRAINING
KRYTERION GLOBAL TESTING SOLUTIONS
ORACLE WORKFORCE DEVELOPMENT PROGRAM
scrummasters REDUCING SOFTWARE PROJECT FRUSTRATION
edexcel
Pearson | VUE

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