

Back End Web Developer

Course Overview

A back-end web developer is responsible for server-side web application logic and integration of the work front-end developers do. Back-end developers are usually write the web services and APIs used by front-end developers and mobile application developers.

In this course, we will learn about RESTful web APIs, ASP.NET Web API platform and how to build RESTful application on .NET framework. We will go through SQL and document based Database.

By the end of the course, you will learn -

- RESTful web APIs development Skills
- Command on .NET framework
- Command on MSSQL database server
- Scalable Enterprise Architecture and design patterns
- Build a fully functional, well organized and tested RESTful application on .NET platform using MS SQL and deploy it to the cloud

Course Outline

Web Development Basics

- What is web or w3
- DNS
- Request-response model
- Http basics
- Browser storage

Development Tools

- Visual code, Visual Studio, Sublime, SQL management Studio, Postman, fiddler
- Version Control - Git, SVN

Programming Basics

- OOP's Concepts
- MVC paradigm and Scaffolding
- Web Services or Web API

C# Basics

- Introduction and History
- Environment Setup
- Hello World! program
- Variable, primitive data-type, keywords
- Operator, conditional, ternary operator
- Array, Struct, Enum
- Switch, loop

C# Advance

- Collection- Array List, Sorted List, Stack, Queue, Hash Table
- Exception- Handling, throw, Custom exception
- Generic Collection- List, Sorted List, Dictionary
- LINQ
- Debugging .NET application

OOPs and Design Pattern

- Interface
- Inheritance
- Composition

- Dependency Injection
- IoC Concepts

ASP.NET Web API

- Scaffolding and Hello Web API application
- Controller, Routing, Filter
- Configuring Web API
- Web API for CRUD with dynamic data
- Parameter binding
- Serialization/Formatter

ASP.Net Platform and Architecture

- OWIN and chain of responsibility
- Identity 2.0
- N-tier Architecture
- IoC Implementation
- UnitOfWork and Repository pattern
- Exception and Error handling
- Unit test

Database

- Database connection and setup
- Entity Framework
- ORM, DbContext and Code-first migration
- Seeding startup data

Deployment

- Web API hosting
- Database hosting

Course Project

- OTP generator C# library Project
- Web API Rate limiter
- Complete backend Solution for Coupon System - This System allow find and share coupon codes and promo codes for great discounts at thousands of online stores.

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