

## Full Stack Developer

### Course Overview

Full-Stack Web Development is the most popular developer occupation today. There are many online Full Stack developer courses, but in-person Newstein Full Stack developer training program is designed to train student from very basic concepts of programming to advanced concepts.

In this course, we will start from the ground up by learning how to implement modern web pages with HTML, CSS and JavaScript. We will explore the core design of Angular 2, its components and code organization techniques.

You 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 -

- Web development Skills
- Command on Angular 2 Framework
- Develop SPA application using Angular 2 and usage of Angular CLI
- Build a fully functional, well organized and tested web application using Angular 2 and deploy it to the cloud
- 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

## Designing a Web Page with HTML and CSS

- What is html
- html5 basics - elements, attribute, formatting
- Adding images, links, list, tables
- What is CSS
- Colors and Names in CSS
- Styling with CSS

## JavaScript Programming

- JavaScript Basics- variable, data types, operators, function
- Scoping, loops, conditional Execution
- Modifying DOM with JavaScript
- Inputs and Events, Ajax calls
- jQuery Basics

## TypeScript

- Basic Types, Variable Declarations
- Interfaces, Classes
- Functions, Generics
- Iterators and Generators
- decorators

## Angular 2

- Angular History and Architecture
- Environment Setup
- Angular Modules and libraries
- Templates and data binding
- Directive and Components
- Forms
- Dependency injection and Services
- Angular routing

## 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

- Task runners and bundler: Grunt, Gulp, web pack
- Website Hosting
- API Hosting
- Database hosting

## Course Project

- Design Student Profile Page Using HTML and CSS
- Simple carousel project using JavaScript
- Design a Home page for an ecommerce website with user login using Angular
- Complete Website Development for Coupon System - This System allow find and share coupon codes and promo codes for great discounts at thousands of online stores.
- 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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