Developing Applications using Angular4

Training Details

Training Time	:	3 Days
Capacity	:	12
Prerequisites	:	It is essential you understand the face of contemporary web development to attend this course. We insist upon JavaScript experience equivalent to the skills covered in Programming with JavaScript (QAJAVSC) and be familiar with TypeScript to a level covered in our Programming with TypeScript course QAPTS

About Training

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Google's Angular framework (often referred to as Angular 4) is the next iteration of the widely known AngularJS framework which allows developers to build smart client-side applications that enhance the user experience. This course is a practical walk-through for both those entirely new to Angular and those coming from AngularJS; and leverages the power of TypeScript to help build highly scalable applications.

What You'll Learn

- Understand how Angular is different than traditional web development frameworks
- Code using new ES6 and TypeScript language features
- Develop an application from scratch using Angular 4
- Explore Angular coding and architecture best practices

- Understand and use Angular Forms, Observables, Dependency Injection, and Routing
- Retrieve, update, and delete data using Angular's Http service
- Unit test all the parts of an Angular application including Modules, Components, Services, and Pipes
- Upgrade an existing application from AngularJS to Angular 4 over time by running both frameworks in the same project
- Create, build, and deploy an Angular (Angular 4) application using the Angular CLI
- Develop dynamic Model-driven forms that are easier to unit test

Who Should Attend

We insist upon JavaScript experience equivalent to the skills covered in Programming with JavaScript (QAJAVSC) and be familiar with TypeScript to a level covered in our Programming with TypeScript course QAPTS.

Outline

1. Introduction
- Evolution and lessons learned
- Semver
- AngularJS to Angular

2. TypeScript Refresher
- Static Types
- Classes
- Modules
- Decorators

3. Setting up the environment
- Quickstart
- Angular CLI
- WebPack

4. Overview of Angular4
- Eight core components
- Bringing them together
- Hello World

5. Components in depth
- Templates
- Data binding
- Built in directives

6. Services
- Why services
- Creating our service
- Dependency Injection

7. Routing

- Configuring the Router
- Setting up your first routes
- Child Routes
- Route Guards
- Lazy Loading

8. Observables (rxjs)

- Using the http module

9. Forms

- How to build forms in Angular
- Validation
- Handling form submission

10. Pipes

- Using Pipes to transform our data
- Stateless (pure) pipes
- Statefull pipes
- Async pipes

11. Testing

- Tools and setup
- Writing our first Karma test
- Testing components
- Isolated unit tests

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