

## Advanced AngularJS (Custom for Capital One)

### Course Summary

#### Description

The Advanced AngularJS training course is designed to enhance your AngularJS coding skills. The course is customized to target developers who already have an understanding of AngularJS, but who want to learn things such as best practices for application organization, consumption of REST web services and testing of an application. This course is designed to enhance your JavaScript coding skills with the latest techniques. Following a quick review of JavaScript basics, the course explores JavaScript MVC, web storage, and object-oriented JavaScript. The course then transitions into discussing frameworks and APIs as tools for improving development cycles. Throughout the course coming changes with ES6 are discussed. This course will teach you how to build advanced web applications using JavaScript.

#### Objectives

By the end of this course, students will be able to:

- Organization of AngularJS Application
- AngularJS Best Practices
- REST APIs and usage within AngularJS applications
- Use of Module Loaders
- Unit testing Angular controllers and services
- Protractor for End to End testing

#### Topics

- AngularJS Review
- AngularJS Best Practices
- REST
- Testing

#### Prerequisites

There are no prerequisites for this course.

#### Duration

Three days

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### Course Outline

#### I. AngularJS Review

- A. Review of Core Concepts
- B. ControllerAs Syntax
- C. Routing
- D. Angular Injector

#### II. AngularJS Best Practices

- A. Organization of an Angular Application
- B. Modules: Angular vs Require vs ES6
- C. Directives as Components
- D. ViewModel
- E. Build Processes

#### III. REST

- A. Overview of REST principles
- B. HATEOAS APIs
- C. Basic REST API Consumption
- D. Client-side ORMs with Angular

#### IV. Testing

- A. Testing Services
- B. Testing Controllers
- C. Testing ViewModels and Directives
- D. Using Protractor for End to End Testing