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## AngularJS 1 Development

(3 days)

### Course overview

AngularJS is a popular framework from Google, for creating dynamic and contemporary Web applications that require a large amount of well-structured JavaScript code. This course is based on AngularJS 1. We also have a separate course that covers Angular 2.

AngularJS uses the well-proven Model-View-Controller (MVC) pattern for creating rich and complex web pages that are quicker to develop and easier to maintain. AngularJS makes JavaScript programming fun and feasible!

### What you'll learn

- JavaScript language features and best practice
- Structure of AngularJS single page applications
- Creating models, views, and controllers
- Using data binding and templates
- Using modules
- Using services
- Working with Ajax and REST
- Testing techniques

### Prerequisites

- Familiarity with HTML and JavaScript programming

### Course details

- **Recap Essential JavaScript Language Features:** JavaScript language gotchas; Object orientation in JavaScript; Namespace management
- **Creating Angular Applications:** Creating a project; Creating a data model; Creating a controller; Creating a view
- **Going Further with Angular:** Two-way model binding; Controller behaviours; Behaviour dependencies; Handling user interactions
- **Application Structure:** Filtering and ordering model data; Generating links; URL navigation; Dependency injection
- **Modules:** Overview of modules; Using modules to define controllers, directives, filters, and services
- **Binding and Template Directives:** Overview of directives; Using data binding directives; Using template directives; Partial views
- **Elements and Event Directives:** Using element directives; Handling events; Working with various types of attributes

- **Forms:** Using form elements with two-way bindings; Validating forms; Displaying validation error messages; Using form directive attributes
- **Services:** Overview of services; Services for expressions and errors; Services for Ajax and promises; Services for REST; Services for injection
- **Ajax and REST:** Round-trip vs. single page applications (SPA); Ajax; RESTful services; Promises; JSON
- **Testing Angular Code:** Overview; Testing with Jasmine and Chutzpah; Writing test specs in Jasmine; Setting expectations; Testing JavaScript objects; Testing Angular controllers
- **Angular BDD Workshop:** Requirements for the application; Defining test specs; Implementing controllers to pass the test specs; Implementing the UI views