Angular 7 Fundamentals

Duration: 5 Days   Course Code: GK0788

Overview:

In this course, you will learn how to develop client browser based applications using the AngularJS framework. You will learn how to use the open source AngularJS framework and combine this with powerful REST services on the back-end to build single page applications (SPA). With the knowledge gained from this course, you will be able to create your own rich and powerful SPAs that keep all their state in the browser and communicate with RESTful services on the backend in order to retrieve and persist data.

Target Audience:

Experienced web developers with a minimal of 6 months web development who want to:
Start building rich client side web applications using AngularJS

Create rich Single Page Applications

Learn the power of JavaScript and the browser

Objectives:

- How to use the AngularJS framework in a modern web application

- Advantages of SPA style web applications

- How to use REST services from your AngularJS application

- Create custom HTML elements using AngularJS directives

Prerequisites:

- Experienced web developers with a minimun of six months web development and experience with JavaScript

Content:

Day 1

JavaScript Refresher

but that is not the case. In this module we will take a look at some of the JavaScript

features that are important to understand when working with a framework like AngularJS.

AngularJS Introduction

This module provides in an overview of the AngularJS Model View Controller framework.

After this module you will have a basic understanding of the different parts of the

AngularJS architecture and how to use them.

Services ; Factories

Moving functionality from controllers into reusable services makes for a much better

architected application and is considered a best practice. In this module you will learn

about most of the standard services AngularJS provides as well as how to create your

own. We will also take a look at the different options for creating reusable modules and

- services you can use.

Day 2

AngularJS and Ajax

There are few applications that do not need to communicate with the server using AJAX

calls. In this module we will take a look at the $http and $resource services provided by

AngularJS to perform AJAX requests. You will learn how to interact with server-side

RESTful services asynchronously using AngularJS's built-in networking features.

Data entry using AngularJS

will examine the different features AngularJS offers to create data entry forms and

perform data validation on the client.

Using Routing to create SPAs

Traditional web applications perform full page loads when the user navigates from page

to page. In this module you will learn how to use the routing features of AngularJS to

create an application where this navigation is done only on the client's machine. This

allows us not only to navigate much faster but also to retain state on the client browser

- between the different parts of our application.

Day 3

AngularJS Patterns

When building AngularJS application you will be faced with many choices. For example

when to use a service or a factory, where to do validation or when to use the routing

module resolve option versus dependency injection. In this module we will take a closer

look at some of these choices and explore the pros and cons of the different options.

Building custom AngularJS Directives

AngularJS ships with an impressive and very useful set of standard directives, yet they

are only the beginning. In this module you will learn how to enhance and expand the

HTML language by creating your own custom AngularJS directives. These custom

directives will let you add behavior to DOM elements as well as create reusable UI

widgets. Using the techniques learned in this module, you will be able to turn HTML into

your own domain specific language (DSL).

Testing AngularJS applications

The way AngularJS is architected results in a highly testable application. In this module

you will learn the various ways of testing your own application. We will look at both unit

testing individual components as well as doing end-to-end testing of the complete

- application by automating the browser.

Further Information:

For More information, or to book your course, please call us on 00 971 4 446 4987

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