Building Web Applications with Angular 2

Category: Software Development & Programming | **Vendor:** Various

Duration: 32.00 hours (4 days) **26.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

Build responsive, enterprise-strength applications that run smoothly on desktop and mobile devices with this Angular 2 training course. Angular 2 provides a robust framework that facilitates the development of richly interactive applications running on multiple platforms. Gain experience building components, creating directives, modularising applications, and building template-driven forms.

About This Course

Build responsive, enterprise-strength applications that run smoothly on desktop and mobile devices with this Angular 2 training course. Angular 2 provides a robust framework that facilitates the development of richly interactive applications running on multiple platforms. Gain experience building components, creating directives, modularising applications, and building template-driven forms.

Prerequisites & Entry Requirements

General Prerequisites:

Experience developing web pages at the level of:

- JavaScript for Modern Web Development

Recommended Experience:

- Knowledge of HTML and CSS

Learning Outcomes

Upon successful completion of this course, participants will be able to:

- Create device-independent Angular 2 applications
- Develop Components using TypeScript, Templates, and Decorators
- Consume REST services using Observables
- Modularise applications with the Component Router
- Capture and validate input with template-driven forms

Detailed Course Outline

Angular 2 Introduction

Architectural overview

- Simplifying development of complex modern applications
- The organisation of an Angular 2 app
- Supporting multiple client devices
- Configuring an Angular 2 development environment
- Bootstrapping your first Angular 2 application

Getting started with TypeScript

- Transpiling TypeScript to JavaScript
- Building an app with TypeScript

Constructing User Interface (UI) Components

Defining components

- Structure of a component
- Introducing the component hierarchy and meta data
- Controlling HTML5 generation with Templates
- Displaying repeating data with *ngFor
- Conditional generation of DOM content

Debugging techniques and strategies

- Interpreting framework error messages
- Exploring the component hierarchy with Augury

Reducing code complexity with Dependency Injection (DI)

- Principles of DI
- Creating loosely coupled applications
- Configuring providers and declaring Injectables
- Specifying dependencies with Provider metadata

Testing Angular 2 Components & Functionality

Structuring test strategies

- Unit testing vs. integration testing
- Working with mock Angular components

- Asynchronous testing with ES6 arrow functions

Leveraging 3rd party tools

- Defining tests with Jasmine and Jasmine Spy
- Automating tests with Angular CLI and Karma
- Building and running a Protractor test

Adding Interactivity to Your Applications

Coordinating Component interaction

- Passing data from parent to child with Input bindings
- Listening for property changes with ngOnChanges
- Binding a model to display with interpolation

Managing events

- Detecting and responding to user interaction
- Capturing browser events
- Emitting custom events to trigger behaviour

Navigation and Data Transformation

Creating modular applications

- Controlling application flow with the Component Router

- Dividing application functionality across multiple Component trees

Manipulating data with Pipes

- Formatting dates for display

- Internationalising yourapps

- Filtering data with custom Pipes

Building Interactive Forms

Displaying and capturing data

- Developing forms with ngFormModel and FormBuilder

- Creating a form from a business object

- Two-way binding between input controls and data model

Validating form input

- Leveraging HTML5 and custom validation

- Providing user feedback from validators

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Managing Asynchronous Behaviour

Keeping the App responsive

- Subscribing to Observables

- Optimising ngZone change detection with immutability and onPush

Interacting with a REST Web service

- Retrieving and sending data asynchronously

- Invoking different HTTP methods

- Working with the XHR object directly

Extending Angular 2 Capabilities

Migrating from AngularJS 1 to Angular 2

- Bridging between AngularJS 1 and Angular 2

- Transcluding Angular 2 components into an AngularJS 1 application

Augmenting Angular 2

- Adding functionality to the DOM

- Incorporating a file upload directive

- Performing animation

- Creating native mobile apps with NativeScript

Skills You Will Learn:

- Create device-independent Angular 2 applications
- Develop Components using TypeScript, Templates, and Decorators
- Consume REST services using Observables
- Modularise applications with the Component Router
- Capture and validate input with template-driven forms

Frequently Asked Questions

Q: What delivery options are available for Building Web Applications with Angular 2?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 4-day Building Web Applications with Angular 2 course provides up to 26.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Building Web Applications with Angular 2 training?

The training takes place over 4 day(s), with each day lasting approximately 32.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Building Web Applications with Angular 2?

Yes, we provide corporate training, dedicated training, and closed classes for Building Web Applications with Angular 2. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Building Web Applications with Angular 2, Programming, ANG2

Q: Why choose Nexus Human for Building Web Applications with Angular 2?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Building Web Applications with Angular 2 training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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