Building Web Applications with AngularJS

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

AngularJS is a modern JavaScript framework for building web-based functionality in desktop and mobile browsers. In this training course, you gain the skills to integrate AngularJS directives and expressions into HTML5 markup, write AngularJS controllers and services, build feature-rich Single Page Applications (SPAs), and harness AngularJS services and animating applications to construct an interactive UI.

About This Course

AngularJS is a modern JavaScript framework for building web-based functionality in desktop and mobile browsers. In this training course, you gain the skills to integrate AngularJS directives and expressions into HTML5 markup, write AngularJS controllers and services, build feature-rich Single Page Applications (SPAs), and harness AngularJS services and animating applications to construct an interactive UI.

Prerequisites & Entry Requirements

General Prerequisites:

Experience developing web pages with JavaScript, HTML, and CSS at the level of:

- JavaScript for Modern Web Development

Learning Outcomes

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

- Build a complete AngularJS Single Page Application (SPA)
- Craft the User Interface (UI) with templates, directives, and filters
- Code controllers with JavaScript and bind data to templates
- Develop data-bound forms to perform CRUD access
- Harness built-in services to perform REST data access

Detailed Course Outline

Introduction and Overview

- Features and benefits of AngularJS
- Extending HTML for web applications
- Separating concerns and testability

Architecting AngularJS

Assembling the application

- Bootstrapping the application with ng–app
- Modularising functionality with angular.module()
- Managing dependencies with dependency injection
- Annotating modules for minification

Coding AngularJS controllers

- Attaching the controller with ng–controller

- Connecting the $scope to the controller

- Implementing controller properties and methods

- Employing the controlleras syntax

Demystifying Angular internals

- Dissecting the digest cycle

- Observing expressions with $scope.$watch()

- Integrating external libraries with $scope.$apply()

Constructing an Interactive User Interface

Applying directives to templates

- Binding to HTML with ng–model

- Interleaving AngularJS expressions with HTML

- Displaying sets of data with ng–repeat

- Piping data into AngularJS filters

- date

- currency

- filter

- orderby

Integrating forms with AngularJS

- Manipulating forms and inputs with the form controller

- Binding to input fields

- text

- date

- radio

- checkbox

- select

- Toggling form control state with ng–show and ng–disabled

Validating form input

- Exploiting HTML5 attributes: required, min, max, pattern

- Harnessing $error, $dirty, and $invalid in expressions

- Styling with Angular CSS classes: ng–valid, ng–invalid, ng–pristine, ng–dirty

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Designing a Polished User Interface

Working with images and links

- Binding image source URLs with ng–src

- Incorporating bound links with ng–href

Supporting internationalisation and accessibility

- Providing local rules

- Applying localisation with ngPluralize and ngMessageFormat

- Leveraging the ngAria module

Harnessing AngularJS Services

Navigating with the routing service

- Dividing application functionality across multiple views
- Specifying the ng–view and page layout
- Configuring the $routeProvider service
- Mapping route URLs to templates

Connecting to external REST API data

- Performing CRUD operations with the $http service
- get()
- post()
- delete()
- put()
- Retrieving JSON data asynchronously
- Mapping JSON data into JavaScript objects

Testing AngularJS functionality

- Unit testing controllers with Jasmine
- Mocking HTTP with $httpbackend

Extending AngularJS

Developing custom components

- Selecting the appropriate provider
- constant
- value
- factory
- service
- Coding a custom filter

Creating custom directives

- Implementing restrictions for elements orattributes
- Specifying template markup or templateUrl
- Isolating directive scope
- Producing one– and two–way data bindings

Animating AngularJS Applications

- Including the ngAnimate module
- Hooking into AngularJS animation triggers
- Writing CSS transitions and animations
- Incorporating drag and drop

Skills You Will Learn:

- Build a complete AngularJS Single Page Application (SPA)
- Craft the User Interface (UI) with templates, directives, and filters
- Code controllers with JavaScript and bind data to templates
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Frequently Asked Questions

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

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 AngularJS 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 AngularJS 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 AngularJS?

Yes, we provide corporate training, dedicated training, and closed classes for Building Web Applications with AngularJS. 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 AngularJS, Programming, ANGJS

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

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 AngularJS 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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