

# Advanced Angular 7.2

## Routing, Libraries, Rendering, Platforms, DI, NgModule, Universal, DevKit, Schematics

It is in the more advanced capabilities of Angular that we see it distancing itself from simpler frameworks and results in it being more and more selected for large-scale important projects that needs a stable, powerful framework as the basis for long-term innovation.

Angular offers a well thought out architecture, its configurable platforms means alternative rendering approaches may be supported (e.g. from a web worker), dependency injection means components can be swapped in and out over time and a wonderful routing engine provides browser-side navigation for views.

Developers already familiar with using Angular to build UI apps will find this advanced course of particular interest as it comprehensively explores how to leverage the rich feature set of the Angular Framework to build more innovative applications that distinguish themselves from the competition in rendering performance and the flexibility of what they offer users.

Attendees will also benefit from this course's coverage of more specialist Angular topics, such as NgModules, Angular Universal and Angular Dev Kit (including Schematics).

<b>Contents of One-Day Training Course</b>	
<p><b>Target Audience</b> Angular and TypeScript developers wishing to explore more deeply how to leverage the more advanced capabilities of the Angular Framework.</p> <p><b>Prerequisites</b> Attendees should have attended our “<i>Angular 7.2 Fundamentals</i>” course or have equivalent experience.</p> <p>All demos &amp; labs are in TypeScript.</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p><b>Angular System Programming</b> Closer look at low level details of how Angular apps actually run Use of zones in Angular</p> <p><b>Dependency Injection</b> Excellent for testing Hierarchical DI built into Angular Provides greater flexibility in how a well structured app can evolve into future</p> <p><b>Angular Router Fundamentals</b> Browser-based editing of address bar URI Setting up routes using the Router Service Router outlet Catch-all entry</p> <p><b>Advanced Angular Router</b> State management Handling routing events Use of guards</p> <p><b>Lazy Loading</b> For large applications, loading everything at startup is costly How can we postpone loading some functionality until/unless it is needed</p> <p><b>Advanced Angular CLI</b> What is a CLI workspace? In-depth look at workspace layout ng add Build tooling Multiple projects</p> <p><b>Building Angular 7.2 Libraries</b> ng-packagr ng g library Sub-dividing large projects into libraries</p> </div> <div style="width: 48%;"> <p><b>NgModule</b> Detailed look at what NgModules are and how they are used entryComponents vs. bootstrap imports &amp; exports</p> <p><b>Platforms &amp; Rendering</b> Rendering pipeline in v7 (Render 2) and upcoming v8 (Render 3/“Ivy”) Customizing rendering Logging rendering information Role of platforms Web workers:[Client Service]MsgBroker</p> <p><b>Schematics</b> Idea behind schematics Creating for your own projects Examining sample schematics projects</p> <p><b>Angular Language Service</b> “The Angular Language Service is a way to get completions, errors, hints, and navigation inside your Angular templates”</p> <p><b>Angular Universal</b> Running Angular on the server Good for search engines (SEO) Good for fast first load of page in browser</p> <p><b>Angular 7.2 DevKit</b> Set of dev tools and libraries for ecosystem Schematics - “generators that transform an existing filesystem” -used by Angular CLI Core, Build &amp; Architect packages</p> <p><b>App Architecture</b> Domain model for Angular apps</p> </div> </div>