

Advanced Angular 5 Using TypeScript

Low-Level Details, Animation, DI, Security, Renderer, Platforms, i18N, ServiceWorker, Universal

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 security 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 animation and internationalization, and lesser known but important auxiliary projects, such as ServiceWorker & Universal.

Contents of One-Day Training Course	
<p>Target Audience Angular and TypeScript developers wishing to explore more deeply how to leverage the more advanced capabilities of the Angular Framework.</p> <p>Prerequisites Attendees should have attended our “<i>Angular 5 Fundamentals Using TypeScript</i>” course or have equivalent experience.</p>	<p>Angular System Programming Closer look at low level details of how Angular apps actually run Use of zones in Angular NgModules</p> <p>Animation Transitions States Triggers</p> <p>Lazy Loading For large applications, loading everything at startup is costly How can we postpone loading some functionality until/unless it is needed</p> <p>Dependency Injection Excellent for testing Hierarchical DI built into Angular Provides greater flexibility in how a well structured app can evolve into future</p> <p>Angular Security XSS CSRF Security contexts Sanitizers Content Security Policy (CSP)</p> <p>Angular Router Fundamentals Browser-based editing of address bar URI Setting up routes using the Router Service Router outlet</p> <p>Advanced Angular Router State management Handling routing events Use of guards</p>
	<p>Rendering Rendering pipeline in v5 and v6 Customizing rendering Logging rendering information How custom renderers get loaded DOM usage & Shadow DOM Renderer3 in v6 – what is coming soon ..</p> <p>Alternative Platforms Role of platforms Web workers and Angular [Client Service]MessageBroker EventDispatcher Building your own platform</p> <p>Internationalization Use of internationalization API i18n select pipe Plural pipe Creating a single source tree for a multi-lingual application</p> <p>ServiceWorker and PWA Angular and progressive web apps Service Worker ServiceWorkerModule, swPush, swUpdate</p> <p>Angular Universal Running Angular on the servers Good for search engines Good for fast first load of page in browser</p> <p>App Architecture Project Domain model for Angular apps End-to-end app architecture Building large scale app using many of the features of Angular we discussed</p>



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