

AngularJS Course Content

Course Description:

Hachion Angular training course will help you master this JavaScript framework for building web applications. As part of the training, you will learn features of Angular and Angular Component Libraries, need for TypeScript, life cycle of Angular components, how to create responsive web designs and more through real-world projects and case studies.

Course Content:

Introduction to Angular

What is Angular, what are its features and advantages, understanding the Angular Technology Stack and Angular Library Components.

TypeScript

What is TypeScript, what is its need, how to install TypeScript, Nodemon for monitoring changes, interfaces in Class, String Templates, Maps, Sets and Object Destructuring, Var, Let, and Const keywords.

Features of Angular

The top features of Angular, CLI prompts, Angular Compiler, dependency and document updates, Angular elements and improved accessibility.

How to build with Angular Components

Building with Angular Components, building web components, custom elements, Angular CLI, ng-packagr, the lifecycle of Angular Components, creating a component and Deeper Nesting.

Responsive web designing

What is a responsive web design, building responsive web design with Angular, introduction to Bootstrap, creating responsive layouts with Bootstrap and code design for responsive websites.

Event binding

What is event binding, how to create event binding in Angular, building directives, template model, what is SystemJS and Webpack, responding to DOM events mostly created by users and getting inputs by binding to these inputs.

Dependency injection

Understanding Dependency Injection, the Dependency Injection API, Angular framework for Dependency Injection, coding pattern for dependencies, overview of service and how to create a service.

Directives in Angular

The function of a Directive in Angular, extending the power of HTML, giving it a new syntax, various types of Directives, how to create a custom Directive, different types of built-in Directives and custom structural Directives.

Pipes in Angular

What are Pipes in Angular and their features, transforming value in Angular template, various built-in Pipes in Angular, how to use it in any template and creating a custom Pipe in Angular.

Forms in Angular

What are Forms in Angular and what are their functions, advantages of Forms, template-driven Forms, reactive Forms, what is Angular Validation and Model driven approach.

Angular Routing

What is Angular Routing, its fundamentals, benefits and features, building a single page application and updating it dynamically with Angular Routing, what is Parameter Routing, Router Lifecycle Hooks and Child Routes.

Promises and Observables

What are Promises and Observables in Angular, comparing the two, handling HTTP requests with Promise, resolving multiple values with Observables, RxJS library for reactive programming with Observables, interacting with http get() in Angular and http Post.

Testing Angular applications

Introduction to testing Angular applications, setup and tools for testing, deploying Angular Test Bed for testing on Angular framework, testing services in Angular, E2E and DOM testing.