

Module 1 - ES6, TypeScript, Angular-CLI and Angular Components

- ES6
 - o Module system
 - o Classes
 - o Variable declaration
 - o Arrow Functions
 - o Template Strings
- TypeScript
 - o Type safety, inference and intellisense
 - o Interfaces
 - o Decorators
- Angular-CLI & project structure
 - o Creating a new project
 - o Project settings, bootstrapping
 - o Building and serving
 - o Component-based architecture
 - o Angular building blocks overview
 - o Generating project elements
 - o Root Angular Module
- Angular Components
 - o Component definition
 - o Component types
 - o Template syntax
 - o Data, property and event binding
 - o Using directives and pipes
 - o Inputs
 - o Outputs (events)
 - o Component style
- Advanced Components
 - o Data projection, building a wrapper component
 - o Querying view and children
- Dynamic components

Module 2 - Providers, Dependency Injection, Observables

- Providers and Dependency Injection
 - o Understanding the role of the Provider
 - o Understanding the injector tree
 - o Creating and using a class provider (service)
 - o Other provider strategies
 - o Configuring providers
- Observables and RxJS
 - o Subscription
 - o RxJS Operators

- o Creating Subjects and Observables
- HttpClient
 - o Http requests (GET, PUT, POST)
 - o Configuring headers
 - o Interceptors
 - o Progress events

Module 3 - Angular Router

- Setting up the router
- Navigation
- Child routes
- Routing params
- Lazy loading
- Guards and hooks

Module 4 - Angular Modules, directives and Pipes

- Angular Modules
 - o Root Module vs. Feature Module
 - o Module definition
 - o Module configuration
- Directives
 - o Types of directives
 - o Built-in directives
 - o Writing your own directives
- Pipes
 - o Sync and async Pipes
 - o Built-in Pipes
 - o Writing your own pipes

Module 5 - Angular Forms

- Template-driven forms
- Reactive forms
- FormBuilder
- Form validation
- Custom validators
- Async validators

Module 6 - State management with ngRx

- Understanding Redux architecture
- ngRx Store
- Actions & Reducers
- Middleware
- Effects and Facades
- Action Splitters