

ActiveNET

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Angular2 Curriculum

Module 1: Introduction to Angular 2

- Setting up Angular Development Environment
- Understanding Angular Framework
- Angular Architecture
- Angular modularity
- Component Structure
 1. Decorators
 2. Selector
 3. Template
 4. Style
 5. Component Class

Module 2: Bootstrapping process

- Understanding Angular Bootstrap process
- Understanding system configuration
- Understanding the implementation of NgModule
- Building the first App – 'Hello Angular Js 2'

Module 3: Introduction to Typescript

- Introduction Typescript
- Configuring Typescript transpilar

Module 4: Developing an application with data binding and directives

- Components
- Attribute directives
- Structural directives
 1. *ngIf
 2. *ngFor
 3. ngSwitch ... ngSwitchCase

- Implement data transformation using Pipes
- Assignment

Module 5: Form inputs and Events

- Implement Data Binding
- Implement one-way and two-way data binding
- Implement Event handling
- Implement Error handling
- Assignments

Module 6: Apply styles to the components

- Create external Style components
- Apply styles
- Assignments

Module 7: Dependency Injection

- Understanding Importance refactoring
- Creating reusable components
- Implementing Dependency Injection to consume a component
- Implementing Promise pattern

Module 8: Implementing Routes

- Implement Route path
- Associate components to paths
- Route with search value
- Assignment
- Project Begins

Modules 9: Implement HTTP request for get and post operations on RestFul API

- HTTP client overview
- Implement RxJS module for HTTP request and Responses
- Fetch data with http.get
- Post data with http.post
- Processing JSON data
- Error handling
- Understand Promise vs. Observables
- Project

Module 10: Implement test environment in Angular

- Install Jasmine
- Configure jasmine
- Create test cases
- Project

Module 11: Project discussion

- Creating modules

- Publishing into Node package
- Capstone Project