CODING CREATROS.

ANGULAR 11 WITH TYPESCRIPT 4

1) **Introduction To Typescript**
   - Introduction to Typescript
   - JavaScript & Typescript

2) **Oops In Typescript**
   - Classes, Class properties, Static Properties
   - Constructors, getters & setters
   - Inheritance, Abstract classes, Interfaces
   - Access modifiers

3) **Namespaces And Modules**
   - Namespaces and multiple files
   - Loading modules

4) **Generics**
   - Generic functions, classes
   - Generic types and arrays
   - Constraints

5) **Decorators**
   - Class Decorators
   - Decorator Factories
   - Method Decorators
   - Property Decorators
   - Parameter Decorators

ANGULAR 10

1) **Introduction to angular framework**
   - Introduction to Angular Framework, History & Overview
   - Environment Setup
   - Angular CLI, Installing Angular CLI
   - NPM commands & package.json
   - Bootstrapping Angular App, Components, AppModule
   - Project Setup, Editor Environments
   - First Angular App & Directory Structure
   - Angular Fundamentals, Building Blocks
   - MetaData

2) **Essentials Of Angular**
   - Component Basics
   - Setting up the templates
   - Creating Components using CLI
   - Nesting Components
   - Data Binding - Property & Event Binding, String Interpolation, Style binding
   - Two-way data binding
   - Input Properties, Output Properties, Passing Event Data

3) **Templates, Styles & Directives**
   - Template, Styles, View Encapsulation, adding bootstrap to angular app
   - Built-in Directives
   - Creating Attribute Directive
   - Using Renderer to build attribute directive
   - Host Listener to listen to Host Events
   - Using Host Binding to bind to Host Properties
   - Building Structural Directives

4) Pipes, Services & Dependency Injection

- Parametrized Pipes Chaining Multiple
- Pipes Creating a Custom Pipe Creating
- a Filter Pipe Pure and Impure Pipes
- (or: How to "fix" the Filter Pipe)
- Understanding the "async" Pipe Services Dependency Injections
- Creating Data Service Understanding
- Hierarchical Injector
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- Services for Cross Component Communication
- Injection Tokens

5) HTTP Requests

- App & Backend Setup
- Sending Requests (Example: POST Request)
- Adjusting Request Headers
- Sending GET Requests
- Sending a PUT Request
- Transform Responses Easily with Observable Operators (map())
- Using the Returned Data
- Catching Http Errors
- Using the "async" Pipe with Http Requests

6) Observables & RXJS Operators

- Basics of Observables & Promises
- Analysing a Built-in Angular Observable
- Building & Using a First Simple Observable
- Building & Using a Custom Observable from Scratch
- Understanding Observable Operators

- Using Subjects to pass and listen to data

7) Authentication and Route Protection

- How Authentication works in SPA
- JWT Module, JSON Web Tokens
- Signup, Login and logout application
- Router Protection, Route Guards
- CanActivate interface
- Checking and using Authentication Status, Router Protection and Redirection

NODE INTRODUCTION

MEAN STACK

1) State Management

- NgRx Package

2) Angular Material

- Using Angular Material in Angular Application Development
- Pagination
- Sorting
- Filtering

3) Cloud Deployment

- AWS Deployment
- Heroku Deployment
- CI / CD