

ANGULAR 2.X,4.X + TYPESCRIPT

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GETTING STARTED WITH TYPESCRIPT

- Installing TypeScript
- Compiling the code
- Building a simple demo.

UNDERSTANDING CLASSES

- Building a class
- Adding properties
- Demo of using classes in typescript

UNDERSTANDING INHERITANCE AND INTERFACES

- What is Inheritance
- How to inherit the classes
- Understanding interfaces

WORKING WITH MODULES

- What are Modules in Typescript
- When to use modules
- Demo on building modules.

GENERIC

- What are Modules in Typescript
- When to use generics
- Demo on working with generics.

INTRODUCTION TO ANGULAR -2.X

- What is angular 2.X
- Working with our build tool
- Setting up out template

INTRODUCTION TO THE BASICS

- Creating a simple component
- Using multiple modules
- Understanding template types

- Displaying data in our templates
- Working with events
- Using properties
- Using two-way data binding
- Adding CSS to our component

ARCHITECTURE OVERVIEW

- Components, Bootstrap, and the DOM
- Directives and pipes
- Data binding
- Dependency injection
- Services and other business logic
- Data persistence
- Routing

CREATING A BASIC MODULE

- Using more complex data
- Creating a subcomponent
- Using multiple subcomponents
- Cleaning up components
- Filtering content through data pipes

COMPONENTS

- Component metadata
- The component selector
- The component template
- Styling a component
- Using other components in a component
- Interpolation and the expression context
- Property binding
- Event binding
- Getting data to the component with input
- Subscribing to component events with output

DIRECTIVES AND PIPES

- Structural directives—ng-if
- Structural directives—ng-for
- Attribute directives—built in
- Attribute directives—custom

- Using directive values
- Working with events in directives
- Angular pipes—built in
- Angular pipes—custom

FORMS

- Angular forms
- Template-driven forms
- Model-driven forms
- Validation--built in
- Validation—custom
- Error handling

DEPENDENCY INJECTIONS AND SERVICES

- How Angular does dependency injection
- Services in angular
- Class constructor injection
- Building a service
- Provider registration at bootstrap
- The inject decorator
- The opaque token

HTTP

- The angular 2 HTTP bundle
- Using a mock back end for HTTP calls
- Using HTTP for GET calls
- Using Url Search Params
- Using HTTP for POST, PUT and DELETE calls

ROUTING

- The Angular 2 routing bundle
- Route configuration
- Router outlets
- Router links
- Using the router class to navigate

ANGULAR JS 4.0

Difference between Angular-1.X and Angular -4.0

Understanding component architecture

Dependency injection design pattern

NG SET UP

- Initializing Angular CLI.
- Initializing Web page.
- Set up VS code.
- Adding required templates to VS code.
- Set up GIT LAB

CREATING ANGULAR APPLICATION

- Understanding setup files
- Understanding Architecture of Application
- Building Hello World

CREATING THE GATHERING PROJECT REQUIREMENT

BUILDING THE COMPONENT

- Understanding the decorators
- Understanding the Selectors
- Understanding the Providers
- Referring the Component in the Application
- Adding Component to the module

BUILDING THE MODULE

- Understanding NG Module
- Declarations
- Imports
- Exports
- Providers

REFERRING A MODULE IN ANOTHER MODULE

COMPONENT LIFE CYCLE

- Understanding Component life cycle Hooks
- Understanding various Interfaces
- Consuming classes in component
- Consuming Interfaces in Component

- Consuming Component in a component

RX JS - REACTIVE PROGRAMING

- Understanding what is reactive programming
- What are Observables
- What is a Subject
- Map Method

WORKING WITH RXJS WITH ANGULAR 4.0

REST API CALLS

- HTTP Calls with Observables
- Error handling
- Streaming
- Integrating with third party API"s

BUILD IN DIRECTIVES

- * ngFor
- * ngIf , Else
- Show and hide elements
- Rendering Images in Angular 4.0
- Rendering Tables in Angular 4.0

PROVIDERS

- How to Use Providers
- Communicate with Component
- Working with RXJS in Providers

CREATING PIPES

- Understanding Build in pipes
- Creating Custom pipes

ADVANCES ANGULAR 4.0

- Working with Routing
- Authenticating and Authorization
- Component to component communication
- Understanding input output methods
- Understanding Subjects
- Understanding Event emitters

SETTING UP REVERSE PROXY WITH WEBSERVER

- Page nation
- Calender

CONCLUSION

Additional benefits

- Course Material
- Sample resumes and Fine tuning of Resume
- Interview Questions
- Mock Interviews
- Certification Questions
- Real time Project