

Angular 12

Duration – 5 days

Pre-requisites: Participants should be familiar with HTML5, CSS and basic JavaScript, Knowledge of RESTful web services will be good, but not compulsory.

Softwares Required:

1) NodeJS

URL: <https://nodejs.org/en/download/>

Verion: Latest LTS Version:

Windows: Windows Installer (.msi) 64 bit

After Installation test using:

Command Prompt: node -v

Command Prompt: npm install -g @angular/cli

Mac:

Using Homebrew

\$ brew -v

\$ brew install node

\$ node -v

\$ npm install -g @angular/cli

2) Visual Studio Code:

URL: <https://code.visualstudio.com/download>

3) JSON server:

a. npm i -g json-server

4) Chrome/Firefox Browser

5) Internet (open internet or proxy settings for npm)

Typescript introduction

- Types as in TypeScript
- Enums
- Return types
- Interfaces
- Optional arguments
- Classes
- Working with other libraries
- Decorators
- Webpack Introduction
- Angular's philosophy

- Architecture
 - Building a TypeScript app
 - Our first component
 - Bootstrapping the app
 - Angular-cli
- The templating syntax
 - Interpolation
 - Using other components in our templates
 - Property binding
 - Events
 - Expressions vs statements
 - Local variables
 - Structural directives (NgIf, NgFor, NgSwitch)
 - Other template directives (NgStyle, NgClass)
 - Canonical syntax
- Building components and directives
 - Introduction
 - Components: view providers, change detection, template, styles, encapsulation
 - Making a component available
- Forms
 - Forms, dear forms
 - Model driven
 - Template driven
 - Adding some validation
 - Errors and submission
 - Creating a custom validator
 - Grouping fields
 - Reacting on changes
 - Services
 - Making your own service
 - Send and receive data with HTTP
 - Getting data
 - Transforming data
- Observables
 - subscribe, unsubscribe, and async pipe
 - Leveraging operators
 - Build your own Observable
- Reactive Programming
 - General principles
 - RxJS
 - Reactive programming in Angular
- Pipes

- json
 - slice
 - uppercase
 - lowercase
 - number
 - percent
 - currency
 - date
 - async
 - Creating your own pipes
- Router
 - Navigation
 - CanActivate Guards
 - Security

Jasmine- JavaScript testing framework

- Introduction to Jasmine
- Get Jasmine
- Matchers
- Before and After
- Testing your app
 - Unit Testing Components using JASMINE and KARMA

Deploying an Angular App

Module Introduction

Deployment Preparations and Important Steps