Angular 4 with Ionic
Duration: 5-6 days

Introduction
IDE's
Typescript Premier

Basic JavaScript
Difference with classical OO languages
Understanding Functions and Scopes
Limitations of JS

Dom Manipulation
Jquery and Angular 1.x comparison

What is node js
How to setup up NodeJS
NPM and Node Ecosystem
Working with NPM packages
Using Gulp as task runner
TypeScript
Trans compilation
Using Gulp to trans compile

Angular 1.x vs Angular 2.x vs Angular 4.x comparison
Why Angular 2.x over 1.x
Architecture
Key Differences
Angular 4 and new features

First Angular 4 project with Gulp
Components and Templates
Data binding: ngmodel
Directives: style, class, disabled, #localVarible
Nested components

Angular CLI

Databinding
Interpolation
Property Binding
Event Binding
ngModel

Directives
Component

Encapsulated Components
Attribute
Structural
Using components as Widgets

Pipes
Offloading processing to client side
Built-in pipes
Custom Pipes
Custom pipe to filter objects

Services
Creating a service
Making Singleton services
Configuring providers

Dependency Injection
Hierarchical Injectors
Component Tree
Change Detection Mechanism
Optimizing Change Detection
Zone JS

Routes/ Single Page Applications
Why single page applications
Basic
Parameters
Navigation
Nested Routes
Promises
Advance Routing
Error Handling

HTTP, Server Side Communications
Uses Observables (RxJS)
POST
Promises
CORS
Calling REST API
Benefits of Observables over Promises

Advanced Concepts
Shadow DOM
View Encapsulation
Dynamic rendering of components
Creating Native Mobile Builds

Testing
Unit testing
End to end testing
Test coverage tools
Gulp build tool advanced
Webpack

Best practices

Case Study

Ionic Framework

Ionic 3 CLI

Introduction
      Dependencies
      First Project
      Running on Browser
      Folder structure
      Add content

Navigation
      Lazy load navigation
      Lifecycle hooks
      Root Navigation and stacks

Theming

Ionic Applications
- Album application
- Library application
- App using server side authentication
- Employee management application

Ionic Native Plugins
      Call Number
      Fingerprint
      Vibrations
      Video Player
      Others

Performance improvements
Using Async and Await