

Angular JS with IONIC (MEAN Stack)

Objective: To work with Hybrid Application Development using Angular, Node, IONIC, MongoDB, Express

Pre-requisites: To learn basic fundamentals concepts of HTML, CSS and JavaScript

Session 1 (Introduction to Angular 7 and Node)

- Introduction to Angular JS
- Introduction to Node JS

Session 2 (Environment Setup of Angular)

- Setting up Angular in Machine
- Installing Node and Angular

Session 3 (Understanding Angular 7 File Structure)

- File Structure of Angular
- Overview of Type Script
- Difference between JavaScript and Typescript

Session 4 (Basic Overview of Typescript)

- Programming Syntax
- Conditional Statements
- Looping

Session 5 (Start Working with Angular 7)

- Understanding angular components
- Angular *ngIf and *ngFor
- Interpolation, Data Binding

Session 6 (Angular 7 Architecture and Life Cycle Hooks)

- Architecture of Angular 7
- Life Cycle of Hooks

Session 7 (Learn to generate new Files in Angular using CLI)

- Working with Components
- Working with Services
- Working with Classes

- Working with Modules

Session 8 (Component Interactions)

- Using @Input and @Output
- Using Service (Overview)

Session 9 (Dependency Injection)

- Detailed Study on Services
- Injectable

Session 10 (Styles, Directives, Pipes, Forms, Validation)

- Component Styles
- Overview of Directive
- Pipes, Forms and Validation in Angular

Session 11 (Observable and RXJS)

- Explanation of Observable
- RXJS
- Working with observable and RXJS

Session 12 (Angular Navigation)

- Routing Concepts
- Customize Routing
- How to use routing/Work with routing

Session 13 (HttpClient Module)

- Understanding Http
- Understanding of HTTP Methods
- How to send request via http methods on server/backend
- Handling response

Session 14 (Node JS and MongoDB)

- Introduction to Node and Express
- Introduction to Mongoose
- Create database of mongodb and making server of that database

Session 15 (Learn to create Server using Express)

- Creating Server with the help of express and node

- Connectivity with mongodb database
- Understanding of schema and model and work on them using mongoose
- Overview of API and Creating API on Node
- Calling API with the HttpClient
- CRUD Operations on mongodb

Session 16 (Introduction to IONIC Framework)

- Introduction to IONIC Framework
- Core Concepts
- Building Your First App
- Browser Support
- CLI Installation
- Packages and CDN
- Environment Setup
- iOS and Android Setup
- Working with Layouts and Themes

Session 17 (More on IONIC Framework)

- Scaffolding
- Migration
- Cross Platform
- Running Overview
- Running on iOS
- Running on Android
- Web View
- Data Storage

Session 18 (Project Work)