



MEAN STACK

Duration – 4 Months

Introduction to NODEJS Application

- Introduction to NODE.JS
- Asynchronous JavaScript Concept
- The importance of being asynchronous
- Introduction to setting up a Node.js Environment
- Run your first NODE.JS Application
- The Node.js process
- Working in REPL
- Node JS Console

File System & File Streaming

- Working with built-in module
- Concept of File System Module
- Reading Directories
- Reading Files
- Working with Streams
- Readable stream & Writable stream

Building servers

- Creating servers with HTTP
- Receiving data
- Handling GET, POST, PUT and DELETE requests
- Sending requests

Introduction to ExpressJS

- Introduction to using the Express framework to set up a web server
- Routes, rendering, layouts, url building, express servers
- Configuration
- Views
- Middlewares



Installation of Mongo Database

- Store data with Mongoose and Mongodb
- Mongo Db connection with ExpressJs framework
- Sample CRUD(Create,Read,Update,Delete) operation in express

Introduction to Angular

- Angular 8 v/s 7 v/s 6 v/s AngularJS
- Setup of NodeJS and Angular
- NodeJS Introduction (NPM)
- Angular CLI
- Difference between TypeScript and JavaScript
- How does Angular get started?
- First Angular App

Components Overview

- Introduction to Components
- Creating components
- Role of AppModule & Component Declaration
- Working with Component templates
- Working with Component Styles
- Understanding Component Selector

Data binding and Event Binding, Directives

- Introduction to Modules & Data binding
- What is Interpolation
- Property & Event binding
- Attribute Binding
- Class Binding
- Style Binding
- Two Way Data Binding
- Binding to Custom Properties
- Splitting Apps into Components
- Property & Event binding overview
- What is ngIf,ngFor,ngSwitch?



Services & Dependency Injection, Routing Concept

- Introduction to Dependency Injection
- Why do we need Services?
- What is Routing?
- Why do we need a Router?
- Setting up and Loading Routes
- Navigating with Router Links
- Understanding Navigation Paths
- Styling Active Router Links
- Passing Parameters to Routes
- Fetching Route Parameters

Transport Output using Pipes

- Introduction to Pipes
- Why are Pipes useful?
- Using Pipes
- Parameterized Pipes
- Chaining Multiple Pipes
- Creating a Custom Pipe
- Parameterizing a Custom Pipe

Making HTTP Requests, Http Client

- Introduction to Http Requests
- How HTTP Requests Work in SPAs
- Sending Requests
- Introduction to HttpClient
- Unlocking the HttpClient
- Request Configuration & Response
- Requesting Events

Forms and Validation

- Template Driven Forms
- Reactive Forms

Project Work