

CURRICULUM

» Node.js & Node Version Manager(NVM)

- Getting started with Node.js
- Node Package Manager
- Modules
- Asynchronous Programming
- Callbacks
- Events
- Streams

» Introduction to TypeScript

- Why Use TypeScript
- Basic Types
- Classes and Interfaces
- Type Definitions
- Compiling TypeScript

» Getting Started with Angular

- Installing Angular CLI
- Angular Architecture overview
- Creating first Angular application

» Modules

- Why use Modules
- NgModule
- Declarations
- Providers
- Imports
- Bootstrapping
- The Core Module
- Shared Modules

» Components

- Introduction to Components
- Component Architecture Patterns
- Decorator Metadata
- State & Behaviour
- Inputs and Outputs

» Templates

- Inline vs External
- Template Expressions
- Data Bindings
- *ngIf else and *ngFor
- Built-in Structural Directives
- Built-in Attribute Directives

» Custom Directives

- Types of Directive
- Create your own Structural Directive
- Create your own Attribute Directive

» Pipes

- Built-in Pipes
- Custom Pipes

» Services

- Introduction to Services
- Building a Service

» **Dependency Injection**

- Introduction to Dependency Injection
- Injectors & Providers
- Registering Providers

» **Lifecycle Hooks**

- Component LifeCycle
- Using ngOnInit
- All lifecycle Hooks

» **Routing**

- The Component Router
- Defining Routes
- Navigation
- Route Params
- Child Routes

» **Advanced Routing**

- Route Guards

» **Template-driven Forms**

- Introduction to forms
- Template-driven forms
- Validation

» **Asynchronous Operations**

- Introduction to Async
- Promises
- Observables
- HTTP Request / Response

» **Testing**

- Introduction to Testing
- Unit Testing
- E2E Testing

» **Third –Party NPM Package**

- Social Login Authentication
- Cookies and Local Storage
- Angular File Upload
- Angular Pagination
- Angular Shopping Cart

» **Express.js**

- MVC Pattern
- Introduction to Express
- Routing
- HTTP Interaction
- Handling Form Data
- Handling Query Parameters
- Cookies and Sessions
- User Authentication
- Error Handling
- Creating and Consuming RESTful Services
- Using Templates

» MongoDB

- Understanding NoSQL MongoDB
- Finding Documents
- Update, Insert, and Upsert
- Indexing
- Data Modeling
- Aggregation
- Implementing Mongoose

» Deploying Node application on server

» Loading Balancing using PM-2

» Use of Ngrok utility for creating HTTP tunnel

» Use of NodeMon utility

MINI PROJECT

» Covering All the Concepts