

Full Stack Development

Using MEAN



MEAN Stack Course curriculum

About MEAN Stack

- Discussion on MEAN Stack
- Discussion on Client-Sever communication
- Conventional web development

Node JS & Node Version Manager (NVM)

- Introduction to Node JS
- Getting started with Node JS
- First program on Node JS
- REPL terminal on Node JS
- Discussion on different Node JS Engines
- First code in node JS

NPM Utility

- Discussion on NPM
- Using NPM

Modules in Node JS

- Modules
- Using modules
- Use of nodemon
- Use of mongoose
- Asynchronous Programming
- Callbacks
- Events
- Streams

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Introduction to TypeScript

- Why use TypeScript
- Basic Types
- Classes and Interfaces
- Type Definition
- Compiling TypeScript
- Import and Export

Getting Started with Angular

- Introduction to Angular
- Angular JS Vs. Angular
- Installing Angular CLI
- Angular Architecture overview
- Creating first Angular application

Enhancing Templates

- Inline Vs External
- Template Expression
- Data Bindings using Interpolation
- Introduction to Directives
- Types of Directives
- *ngIf-else, *ngFor and *ngSwitch
- Built-In Structural Directives
- Built-In Attribute Directives

Modules in Angular

- Why use Modules
- NgModule

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- Declarations
- Providers
- Imports
- Bootstrapping
- The Core Module
- Shared Modules

Components in Angular

- Introduction to Components
- Component Architecture Patterns
- Component class selectors
- Decorator Metadata
- State & Behavior
- Adding component
- Component naming convention
- Component interaction

Custom Directives

- Types of Directives
- Create our Own Structural Directive
- Create our own Attribute Directive

Pipes in Angular

- What are PIPES in angular
- Built-In Pipes
- Custom Pipes

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Binding

- Dissuasion on Data Binding
- Property Binding
- Property Vs. Attribute
- Difference in Interpolation and Property binding
- Class binding
- Style binding
- Event binding
- Template reference variables
- Discussion & demonstration on difference types of binding

Dependency Injection

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

Life cycle Hooks

- Component Life Cycle
- Using ngOnInit
- All life cycle Hooks

Routing

- The Component Router
- Defining Routes
- Navigation
- Route Params
- Child Routes
- Routing on button

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Advance Routing

- Route Guards

Angular Form

- Introduction to forms
- Template-Driven Forms
- Model Driven Forms
- Accessing data of forms
- Validation

Building Services in Angular

- Introduction to Services
- Need of using service in angular.
- Discussion on programming principal
- Building a Services
- Understanding Dependency Injection

Asynchronous Operations

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

Using API in angular

- Discussion on API
- Step to use API
- Discussion on security alert

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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

Mongo DB

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

MongoDB with Express and Angular

- Discussion on Mongoose
- Setting up Mongoose
- Building database connection
- Creating schema and model
- CRUD operation using express

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Deploying Node application on server

Mini Project

- Web application-based project, Covering All the Concepts