

MeanStack Development



We are ready to serve Latest IT Trends, Are you ready to learn.??

QUALITY THOUGHT

The Leader in Software Training

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START DATE :

TIMINGS :

DURATION :

TYPE OF BATCH :

FEE :

FACULTY NAME :

LAB TIMINGS :

Pre requisites:

- Web Application Architecture
- WebPages using HTML CSS , JavaScript , JSON , Ajax
- Web Applications
- Webservers
- Application servers
- Databases

Introduction:

- What is MEAN
- What is a Single Page Application (SPA)
- How Does the MEAN Stack Work?
- MUST READ: Angular CLI - Latest Version
- Installing Node & the Angular CLI
- Installing our IDE
- Exploring the Project Structure
- Course Outline
- How To Get The Most Out Of This Course
- Examples

The Angular Frontend - Understanding the Basics

- Module Introduction
- Understanding the Folder Structure
- Understanding Angular Components
- Adding our First Component
- Listening to Events
- Outputting Content
- Getting User Input
- Installing Angular Material
- Adding a Toolbar
- Outputting Posts
- Diving Into Structural Directives
- Creating Posts with Property & Event Binding
- Creating a Post Model
- Adding Forms
- Getting Posts from Post-Create to Post-List
- Calling GET Post
- More About Observables
- Working on our Form
- Examples

Adding NodeJS to our Project

- Module Introduction
- Connecting Node & Angular - Theory
- What is a RESTful API?
- Adding the Node Backend
- Adding the Express Framework
- Improving the server.js Code
- Fetching Initial Posts
- Using the Angular HTTP Client
- Understanding CORS
- Adding the POST Backend Point
- Adding Angular
- Examples

Working with MongoDB

- Module Introduction
- What is MongoDB?
- Comparing SQL & NoSQL
- Connecting Angular to a Database
- Setting Up MongoDB
- Using MongoDB Atlas & IP Whitelist
- Adding Mongoose
- Understanding Mongoose Schemas & Models
- Creating a POST Instance
- Connecting our Node Express App to MongoDB
- Storing Data in a Database
- Fetching Data From a Database
- Transforming Response Data
- Deleting Documents
- Updating the Frontend after Deleting Posts
- Adding Posts with an ID
- Examples

Enhancing the App

- Module Introduction
- Adding Routing
- Styling Links
- Client Side vs Server Side Routing
- Possible Error
- Creating the "edit" Form
- Finishing the Edit Feature
- Updating Posts on the Server
- Re-Organizing Backend Routes

- Adding Loading Spinners
- Examples

Adding Image Uploads to our App

- Module Introduction
- Adding the File Input Button
- Converting the Form from a Template Driven to a

Reactive Approach

- Adding Image Controls to Store the Image
- Adding an Image Preview
- Starting with the Mime-Type Validator
- Finishing the Image Validator
- Adding Server Side Upload
- Uploading Files
- Working with the File URL
- Beware of the Spread (...) Operator
- Fetching Images on the Frontend
- Updating Posts with Images
- Wrap Up
- Examples

Adding Pagination

- Module Introduction
- Adding the Pagination Component
- Working on the Pagination Backend
- Connecting the Angular Pagination to the Backend
- Fetching Posts Correctly
- Finishing Touches
- Examples

Adding User Authentication

- Module Introduction
- Adding the Login Input Fields
- Handling User Input
- Adding the Signup Screen
- Creating the User Model
- Creating a New User Upon Request
- Connecting Angular to the Backend
- Understanding SPA Authentication
- Implementing SPA Authentication
- Sending the Token to the Frontend

- Adding Middleware to Protect Routes
- Adding the Token to Authenticate Requests
- Improving the UI Header to Reflect the Authentication Status
- Improving the UI Messages to Reflect the Authentication Status
- Connecting the Logout Button to the Authentication Status
- Redirecting Users
- Adding Route Guards
- Reflecting the Token Expiration in the UI
- Saving the Token in the Local Storage
- Examples

Authorization

- Module Introduction
- Adding a Reference to the Model
- Adding the User ID to Posts
- Protecting Resources with Authorization
- Passing the User ID to the Frontend
- Using the User ID on the Frontend
- Examples

Handling Errors

- Module Introduction
- Testing Different Places to Handle Errors
- The Error Interceptor
- Displaying the Basic Error Dialog
- Adding an Error Dialog
- Returning Error Messages on the Server
- Finishing Touches
- Examples

Optimizations

- Module Introduction
- Using Controllers
- Separating the Middleware
- Creating an Angular Material Module
- Splitting the App Into Feature Modules
- Fixing an Update Bug
- Creating the Auth Module
- Fixing the AuthGuard
- Adding Lazy Loading
- Using a Global Angular Config
- Using Node Environment Variables
- Examples

Deploying our App

- Module Introduction
- Deployment Options
- Deploying the REST Api
- Angular Deployment - Finishing the Two App Setup
- Using the Integrated Approach
- Examples

**BY
(KUMAR)**

