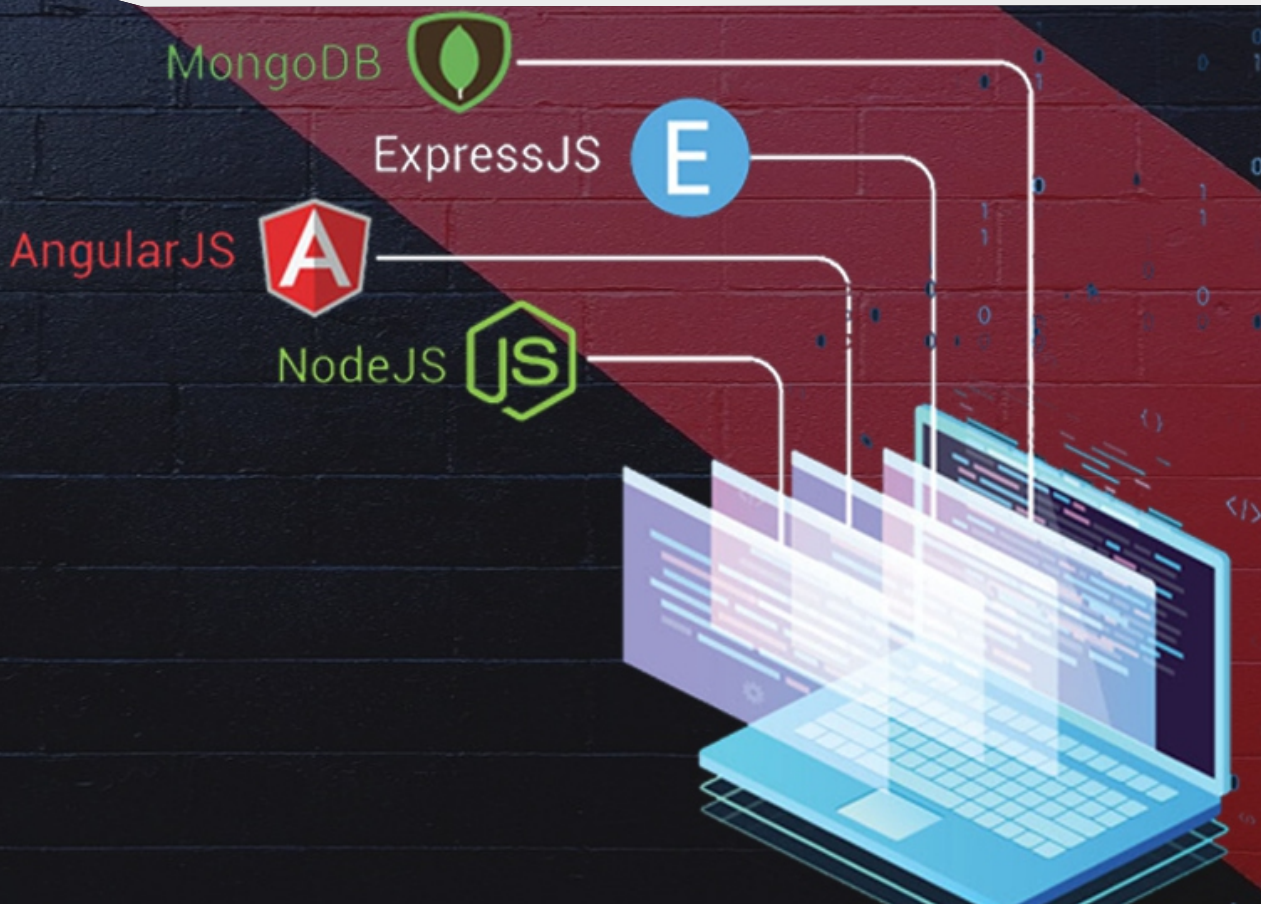# MERN Stack

MongoDB
ExpressJS
AngularJS
NodeJS

SevenMentor
PVT.LTD

Getting Started with Mern Stack Course

Course Introduction
What is Mongodb, Angular, Nodejs and Express.js
MongoDB, Angular, Nodejs and Expressjs vs Mern Stack
Project Setup and First App
The course Structure
What is MERN
A basic setup of Bootstrap for Styling

MERN Introduction

Module Introduction
Using types Classes Interface
Generics Wrap up & Modules
Deep dive into MERNs

The Basics of Mern Stack

Module Introduction
How a MongoDB, React Js, Nodejs and Expressjs App
gets loaded and started
Components Creating new Component
Templates Understanding Component Styles
Understanding Component Selector

Databinding & Directive Concepts

Module Introduction
What is Databinding
String Interpolation Property Binding vs String Interpolation
Event Binding
Understanding Directives Using ngIf and Else Conditions
Using style for Styling Mongodb, ReactJS, Nodejs
and Expressjs App
Applying CSS Class dynamically with ngClass
Displaying Lists using For

SevenMentor
PVT.LTD

Advanced Component and Databinding

Dividing the App into multiple components
Property and Event Binding deep dive
Binding to custom properties
Binding to custom events View Encapsulation
Understanding Local Reference inside Templates
Getting Access to the templates using @ViewChild.
Exploring Component Life Cycle Lifecycle hooks deep dive
Module Introduction

Advance Directive Concepts

Creating a basic custom attribute directive
Exploring Renderer to create a Directive
Understanding HostListener and HostBinding Binding to Directive
Properties Building Structural Directives Exploring switch

Understanding Services & Implementing Dependency Injection

Module Introduction
Why Services are required
Understanding Dependency Hierarchical Injector
Injecting a Service into other services

Routing in Mern Stack

Module Introduction
Understanding the need for a Router
Setting Up and implementing Routes
Navigating to Router Links
Understanding Router Paths Styling Active Router Links
Understanding Navigation Paths Styling
Router Links Navigating Dynamically Using Relative Paths
Fetching route parameters in a Reactive Way
Passing query parameters and fragments
Understanding Nested Routes Redirecting
& Wildcard routes
Redirection Path Matching
Outsourcing the Route Configuration
Introduction to Guards Understanding can activate

SevenMentor
PVT.LTD

Observables in Mern Stack

Module Introduction
Understanding built-in MongoDB, React Js, Nodejs
and Expressjs Observable
Creating Observables Using a Custom observable
Understanding Observable Operators

Forms in MERN Stack

Module Introduction
Need of MongoDB, React Js, Nodejs and Expressjs's help
Template Driven vs Reactive Approach

Template Driven Approach

TD: Submitting and Using the form
TD: Understanding Form's State
TD: Accessing Form using @ViewChild
TD: Adding Validation to user input
TD: Understanding Form State
TD: Outputting Validation Error Messages
TD: Using ngModel and two-way binding
TD: Grouping Form Controls
TD: Using Form Data

Reactive Form Approach

Reactive: Creating a Form in Code
Reactive: Submitting the form
Reactive: Adding Validation
Reactive: Getting Access to Controls
Reactive: Grouping Controls
Reactive: FormArray
Reactive: Custom Validators
Reactive: Exploring Error Codes
Reactive: Custom Async Validator

SevenMentor
PVT.LTD

Making HTTP Requests in MERN Stack

Introduction & how HTTP request
Works in SPAs Sending POST Request
Adjusting request headers Sending GET requests

Authentication & Route Protection in Angular Apps

Module Introduction How Authentication works in SPAs
Introduction to JWT
Firebase SDK Signing users up
Signing users in Token

SevenMentor
PVT.LTD