

## MERN Stack (Back End Development)

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### ➤ Node.JS

- Introduction
- Who this course is for
- How Node.JS Works
- Node V8 Engine
- Installation Node.JS

### ➤ Fundamentals of Node.JS

- What is REPL – Read Evaluate Print Line
- Loading Files – Using REPL
- Process Object
- Global Namespace
- Buffers
- Understanding Callbacks

### ➤ Modules & Node Package Manager

- Introduction
- Making use of NPM – Node Package Manager
- Publishing node modules
- Module Caching
- Module Caching – Overcoming the limitations
- Module Patterns

### ➤ Events

- Events and EventEmitter
- EventEmitter and Inheritance
- Creating your own EventEmitter
- ES6 Classes and EventEmite

### ➤ Creating a WebServer

- How a Web Server works
- Creating our WebServer
- Sending HTML content as response from WebServer
- Serving Static Contents
- Post data to Node Web Server

- Handling Querystring

## ➤ Working with Express

- Introduction to Express
- Installing Express
- Creating a Web Server using Express
- Adding routes to Express App
- Working with Express Templates
- Working with partials
- Sharing content across routes
- Organizing our routes
- Making use of Express Generator
- Express Middleware

## ➤ Working with Database

- Introduction to Database
- Download and installing MySQL and Workbench on windows
- Connecting MySQL with our Express Application
- Introduction to NoSQL Database
- Installing to MongoDB Locally
- Working with MongoDB and Mongoose
- Using Mongolab – MongoDB as a Service

## ➤ Authentication using Express and Passport

- Setting up our Authentication Application
- Creating User Model in Mongoose
- Developing Strategies – I – Login Strategy
- Developing Strategies – II – Signup Strategy
- Creating Routes
- Creating our Login/Signup Layout and Finishing the Application

## ➤ Main Project

- Creating A Project Using full stack
- Apply All The Concepts Learnt Till Now

# THANK YOU!