



MERN FULL STACK COURSE CONTENT

• COURSE MODULES

- HTML, CSS, Javascript
- React.js
- MongoDB
- Express.js & Node.js

• Detailed Content

- Introduction to JavaScript
- Variables
- DataTypes
- Functions
- Operators
- Loops
- Conditional statements

• Object

- Objects in JS
- Ways to create Objects
- Reflection
- this keyword
- call, bind and apply methods
- inheritance

• ES6

- ECMAScript Introduction
- Arrow Functions
- let and const
- classes
- ES6 modules
- string interpolation
- spread operator
- destructuring arrays and objects
- map, reduce and filter
- commonly used ES6 features





MERN FULL STACK COURSE CONTENT

• COURSE MODULES

• Asynchronous JavaScript

- Synchronous Javascript
- What is asynchronous code
- Callbacks Promises
- Async and Await
- Generators

• React.js

- Introduction to React
- JSX
- Virtual DOM
- What & Why React
- Project setup Building and running react app

• Components

- Component driven development
- Components basics
- State Props
- Traditional Components
- ES6 Components
- Functional Components
- Class Components
- Synthetic Events

• Single Page Applications

- Introduction to SPA
- Container Components
- Presentational Components
- Routing Authentication



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• COURSE MODULES

• HTTP

- What is REST
- Http request and response format
- Http status codes, headers and payload
- Fetching data from REST API
- Axios
- Promises handling
- Error handling

• Forms

- Developing Forms
- Posting Data
- Validating Form Data

• Unit Testing

- Introduction
- TDD
- Setup and running test
- Introduction to jest
- Testing Services
- Testing Components

• MongoDB

- Overview
- Installation
- MongoDB as service
- Creating database & collections
- Operations (Read, Insert, Update, Delete, Count, Sort, Limit)
- Advanced
- Indexes
- Creating Indexes
- Dropping Indexes
- Designing database
- Aggregations and Projections
- Robomongo
- Administration
- Db backup
- Db restore
- User Management
- Import and Export



MERN FULL STACK COURSE CONTENT

• COURSE MODULES

• Express.js & Node.js

- Introduction to Node JS
- Introduction
- Event loop and Non-blocking
- Asynchronous execution
- Callbacks
- Installation
- NPM
- Package.json
- Creating http server
- Serving requests
- Routing
- Nodemon

• Debugging

- Console.log
- Debugging using VS Code
- Debugging using Chrome

• Express JS

- Introduction
- Installation
- Creating http server
- Serving requests
- Routing
- Middlewares
- Creating middleware
- Creating REST API
- Introduction to REST
- Routing
- Controllers
- Models
- GET, POST, PUT and DELETE requests
- Paging, searching, and sorting data
- Using Postman to make post calls



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• COURSE MODULES

• Authentication

- Introduction to Authentication
- Passport Authentication
- Local Auth Strategy Signup and Login
- Handling sessions
- Cookies
- Authorization

• Packaging & Development

- Introduction to AWS
- Introduction to EC2, ECS, Beanstalk, SES, SNS, RDS Services
- Deploying an app to AWS
- Using MongoDB on AWS RDS Database
- Continuous Integration and Continuous Delivery (CI/CD Pipelines)
- Unit testing app

Duration : 90 Hrs Project Based Learning)