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Mern Syllabus

COURSE CONTENTS

Node JS syllabus

- Introduction to Node JS Life Cycle
- ECMASCRIPT
- Basic of JS engines
- Javascript runtime environment
- What is Node JS
- Modules
- NPM
- HTTP Protocol
- Nodejs using REST
- Nodejs using execute scripts
- Introduction to Express JS
- HTTP Interaction
- Adding Middleware
- Working with Rest APIs
- Dynamic routing
- Adding Authentication
- Error Handling
- Session, cookies and local storage
- Understanding Async await
- Websocket and Socket.io
- Connection with Mongodb
- Mongoose
- Testing using Jest

MongoDB syllabus

- What is non-relational database
- What is mongodb?
- Benefits of using Mongodb
- CRUD operations
- Schema Design and data modeling
- All Basics of MongoDB
- MongoDB Atlas configuration

React JS syllabus

- Overview of Javascript
- Overview of React JS
- Role of Node.js and NPM in React JS
- Installation and benefits of Visual studio
- React Setup
- Installation Of Node & NPM
- Installation Of React
- How to render view in react JS
- ES6 with react js
- JSX
- React Components
- Class Component
- Functional component
- Component Life Cycle
- Props and States
- React props and state practice
- React Developer tool
- Event Handling
- Hooks
- React Router
- Communicating Between Components in React
- Styling in React JS
- Redux
- Unit testing
- Jest

React JS syllabus

Overview of JavaScript
- Basic Of JS
- ECMASCRIPT (ES5 ES 2015

Overview of React JS
- Feature Of React JS
- Advantages
- Limitations
- version

Role of Node.js and NPM in React JS

Installation and benefits of Visual studio
- Installation
- Installation Of React Plugins

React Setup
- Installation Of Node & NPM
- Installation Of React

How to render view in react JS

ES6 with react js

JSX
- What id JSX
- Why JSX
- Rules of JSX Implementation

React Components
- Use And Benefits
- Class Component
- Functional component

Component Life Cycle

Props and States

Props and States

React props and state practice

React Developer tool

Event Handling

Hooks
- Intro To Hooks
- When To Use Hook
- Hook states
- Hook effects
- Building your own hooks

React Router
- Install React Router
- Create Components
- Add a route

Communicating Between Components In React

Styling in React JS

Redux

Unit testing
- Jest

01

Node JS syllabus

Introduction to Node JS Life Cycle

ECMASCRIPT

Basic of JS engines

Javascript runtime environment

What is Node JS

Modules
- Local Modules
  1 Module Export
  2 Module Scope
  3 Module Wrapper
  4 Module Caching
  5 Module Dependency Packaging
  6 JS Modules
- Build-in Modules
  1 Http Module
  2 Net Module
  3 Tls Module
  4 Dns Module
  5. HTTP Module
- Third Party Modules

NPM
- Package Installation
  1. Locally
  2. Globally
- Dependencies

HTTP Protocol

Building HTTP Server

Nodejs using REST

Node.js using execute scripts

Introduction to Express JS
- Express Installation
- Routing
- Setup Router
- Route Parameter and Queries
- Express behind the scene

HTTP Interaction

Adding Middleware
- How Middleware Works
- Using Express Router

Working with Rest APIs

Dynamic routing

Adding Authentication

Error Handling
- Type Of Errors And Error Handling
- Throwing Error In Code
- Returning error page
- Using the Express Error Handling Middleware
- Status Codes

MVC (Model View Controller)

Session, cookies and local storage

Understanding Async await

Websocket and Socket.io

Connection with Mongodb

Mongoose

Testing using Jest

02

MongoDB syllabus

What is mean by non-relational database

What is mongoDB?

Benefits of using Mongodb

CRUD operations
- Create
- Read
- Update
- Delete

Schema Design and data modeling

All Basics of MongoDB

MongoDB Atlas configuration

03

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