MERN Stack Course Details

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MERN Stack Training Syllabus

Introduction:

- Introduction to JavaScript programming language

  - Introduction to javascript
  - Variables
    - var
    - Const
    - Let
  - Naming
  - Data Types
  - Operands and operators

- Technologies around JavaScript.

Environment Setup:

- Introduction to development tools
- Text Editor, IDE
- Git
- Git workflow(branching,push,pull)
- NPM, Yarn
- Postman

HTML & CSS

Node JS:

- Introduction to nodejs
- Node package manager (npm)
- Node modules
- Node CLI
- Global Object
- Creating http server with nodejs
- Working on core NODE API
- Asynchronous and event loop in node js

Express JS:

- Introduction to framework and Express • The model-view-controller pattern in ExpressJS • Middlewares
- Templating engine (pug,handlebars)
- Routing
- HTTP Protocol
- Http Request Object
- Http Response Object
- User authentication using jwt (json web token) • Garbage collection and error handling

Mongo DB:

- Installation
- Introduction SQL Vs NoSQL
- NoSQL (Schema Less Database)
- MongoDB (Collection & Documents)
- Data Modelling
- Create Database Shell Command
- Datatypes
- Update, insert delete and query documents
- Using Mongodb Native driver with Node
- Database modeling using MongoDb
- Aggregation in mongodb

React JS:

- Introduction Frontend tools (webpack , babel, more…) and React • Single Page Application scope and objectives
- Dev Tool and Environment
- JSX, Babel, Webpack
- ES6 features practices
- Class, Inheritance, Encapsulation and more
- Create-react-app and project setup
- Components patterns in React
- State
- Props
- Life Cycle of React Components
- Functional Component

- Introduction to hooks
- React Router
- SPA using React Router
- Introduction to Redux and Flux Architecture
- State Management
- Reducers
- Action Creators
- Middlewares (thunk,saga)
- Services
- Error Handling