

Fullstack MERN

Course Contents:

Environment Setup:

- Text Editor, IDE
- Command Prompt(command line)
- Git
- Postman

1. HTML

- Html Introduction
- Html formatting tags
- Html links, lists
- Html tables
- Html forms
- Html image
- Html Audio, video
- Iframes
- Layout using tables

2. CSS

- CSS Introduction
- CSS Selector Types
- CSS Types
- Margin, Padding, Border

- Background Color, Background Image Properties
- Positions
- Icons
- Flex Layout
- Grid Layout
- Combinators
- Form
- CSS MediaQuery
- Transform
- Animation

3. JS

- JS Concept
- Datatypes
- Operators
- Conditional Statement
- Loops
- Function
- Scope
- Closure
- Mutation
- Async Await
- Callback
- Promise
- Inbuilt Methods
- Array
- Regular Expression
- Form Validation

4. REACT

- React introduction
- Components
- Modules – default vs named exports
- Class components vs functional components
- React hooks
- State
- Props
- Single page application
- React router
- Protected route

5. NODE

- Node introduction
- Node package manager
- Node modules
- Third party server validation
- MVC patterns
- Authentication
- Authorization
- File/image upload
- Mail

6. EXPRESS

- Introduction to framework and Express
- Middleware
- Routing
- HTTP Protocol
- Http Request Object

- Http Response Object
- Token Based authentication using JWT
- Error Handling Middleware
- JSON Data

7. MongoDB

- MongoDB introduction
- SQL vs NO-SQL
- Database designing in nosql
- CRUD operation in mongoDB
- MongoDB A Database for the modern web
- Analysis and indexing
- Routing And Reproducibility
- MongoDB Server operation administration
- creating a mongoDB powered NodeJS application