

- ✓ C / C++
- ✓ JAVA FULL STACK
- ✓ PYTHON
- ✓ DSA
- ✓ HADOOP
- ✓ DATA SCIENCE
- ✓ DATA ANALYTICS
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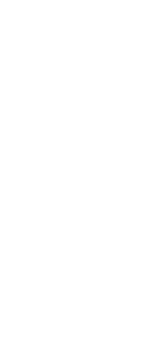
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## Mern Syllabus

### COURSE CONTENTS

#### Node JS syllabus

- ✓ Introduction to Node JS Life Cycle
- ✓ ECMASCIPT
- ✓ Basic of JS engines
- ✓ JavaScript runtime environment
- ✓ What is Node JS
- ✓ Modules
- ✓ NPM
- ✓ HTTP Protocol
- ✓ Nodejs using REST
- ✓ Node.js 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

#### 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
- ✓ How to render view in react JS
- ✓ ES6 with react js
- ✓ JSX
- ✓ React Components
- ✓ 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

#### MongoDB syllabus

- ✓ What is mean 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

- Basic Of JS
- ECMASCIPT (ES6) 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 Is 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

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

### React Router

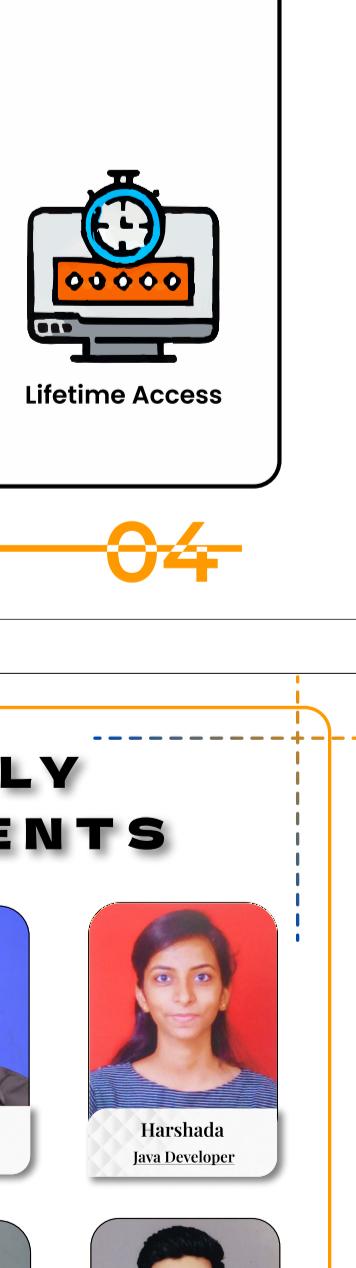
- Install React Router
- Create Components
- Add a router

### Communicating Between Components in React

### Styling in React JS

### Redux

### Unit testing



### How to render view in react JS

### ES6 with react js

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## Node JS syllabus

### Introduction to Node JS Life Cycle

### ECMASCIPT

### Basic of JS engines

### JavaScript runtime environment

### What is Node JS

### Modules

- Local Modules
- 1. Module Export
- 2. Module Scope
- 3. Module Wrapping
- 4. Module Caching
- 5. Import Export Patterns
- 6. ES Modules

### Build-In Modules

- 1. PATH Module.
- 2. Event Module.
- 3. FS Module.
- 4. Streams.
- 5. HTTP Module..

### Third Party Modules

### NPM

- Package Installation
- i. Locally
- ii. 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.js 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



### Building HTTP Server

### Nodejs using REST

### Node.js using execute scripts

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