



Training Manual for React JS and Node JS

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Purpose of this document

This document consists training manual for react JS and Node JS . This will give you the list of topics that React and Node JS has.

Training Manual

What to know before learning React JS and Node JS?

These are the following technologies they should aware. Atleast the minimum

1. HTML
2. CSS
3. Javascript

The following topics will cover each section with their sub sections. Kindly allow them to understand this section before moving into React JS and Node JS, If they are a fresher

HTML :

1. Tags
2. Events
3. HTML Attributes
4. Adding styles (Internal External)
5. Meta Tags
6. Adding Javascript functions, Internal and external

CSS :

1. Basics
2. Colors (Different types)
3. Media queries
4. Working with Fonts
5. Theme
6. Bootstrap *
7. Tailwind CSS *

8. Material UI *

Note : The * marked topics are different CSS libraries that supports React JS. It's better to know atleast any one. Most preferably Bootstrap and Tailwind CSS. There are more number of libraries available in the market. Kindly refer this link <https://www.browserstack.com/guide/top-css-frameworks>

Javascript :

1. Variables
2. Objects
3. Classes
4. Events
5. Arrays
6. Functions
7. Destructing
8. Call backs
9. Fetch
10. Async, Await
11. Promises
12. DOM basics
13. Closures
14. Arrow Functions
15. Reduce
16. Map
17. Sort
18. Filter
19. JSON
20. Window Object

Links to Follow :

<https://developer.mozilla.org/en-US/docs/Learn/JavaScript>

<https://javascript.info/>

<https://learnjavascript.online/>

React JS :

Before learning React JS, Kindly get to know the basics of above mentioned topics.

1. JSX
2. Components
3. Props
4. State
5. Life Cycle Methods
6. DOMS
7. Handling Events
8. Keys
9. Forms
10. Inputs with Validations
11. API Handling (Fetch and Axios)
12. Error Handling
13. Hooks *
14. Context *
15. Redux *
16. Mobx *

Note : The * marked topics are advanced topics. Once they are ready with the basics, they can go for this * marked topics. Redux and Mobx are mainly for State management so, they can go go for any one technologies. Initially I would strongly suggest they should use Class component to get to know the basics and then Functional Component.

Links :

<https://reactjs.org/docs/getting-started.html>

****** I strongly suggest they should follow the above mentioned site. It's their official site that has all the information that we need to learn React JS.

Node JS :

If node JS is mainly for REST API means kindly follow these sub topics. Instead of using pure Node JS code , I would suggest to use Express.JS.

Express is a minimal and flexible Node.js web application framework that provides a robust set of features to develop web and mobile applications. It facilitates the rapid development of Node based Web applications.

1. Environment Setup
2. Create Server
3. Models
4. Middlewares
5. Routing
6. Services
7. Controllers
8. Validations
9. Logger
10. Status Codes
11. Error Handling
12. Buffer
13. File Systems
14. Event Loop
15. Event Emitter
16. Callbacks
17. Streams
18. Handling Images(Multer)
19. HTML rendering using Express

Links :

<https://expressjs.com/en/starter/installing.html>

They can refer any Youtube videos to know the basics. There are couple of good resources available.