

React JS

ReactJS

Why? ① fast b/c, Virtual DOM.

② Easy to learn

③ Large Community.

Developed by: - facebook / React Native (mob. dev.)

- Setup
- Basics
- Hooks
- form handling
- Routing
- API calls
- Advance Concept
- Redux
- React 19 features
- Tailwind with React.
- Mini Project
- Main Project. etc.

LTS: - Long term Support.

Installation

- Node & NPM → Nodejs: - open source, cross platform JS. runtime env.
- VS Code
- Vite → frontend dev. tool to Setup react (Common way for installation.)

Steps

- npm create vite
- framework: React
- y
- Variant: javascript
- Project name
- To Run: - npm run dev.

index.html (execute first) `<div id="root"> </div>`
main.jsx
↓
Script.

↳ createRoot (document.
getElementById('root')).render (

Prostanoord-D

* Component always start by capital letter

```
function App() {  
  return (  
    <div>  
      <div>  
        <div>  
          <div>  
            <div>  
              <div>  
                <div>  
                  <div>  
                    <div>  
                      <div>  
                        <div>  
                          <div>  
                        </div>  
                      </div>  
                    </div>  
                  </div>  
                </div>  
              </div>  
            </div>  
          </div>  
        </div>  
      </div>  
    </div>  
  )  
}
```

Note:

Component only return
Single div.
you can use multiple
div ~~in~~ by wrapping
them in div one.

New file in React: use (.jsx).
↓ export default ;

Interview:-

Diff b/w lib & framework:

TSX
Typescript XML

lib:- you can control the flow. [Code decide when and how to use library].

Highly flexible.

Highly flexible.
work with multiple library independently.

framework:- framework Control the flow.
Less flexible..

File and folder ~~React~~ Structure:-

① Package.Json (libraries used in project)

Diff b/w dependency & devdependency

dependency :- on which project Run

devdependency :- due to which we can build project.

② Package Lock :- nested information

⑤ vite.config.js :- To Configure vite tool

④ eslint.config.js :-

⑤ .gitignore

— Project files :- Index.html

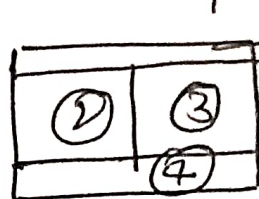
— Working folder :- Src.

⑥ node-modules [All libraries using in project]

React Components:-

Component:- Small parts of a webpage or a project is Component.

<Component />



there are four comp.

Everything is Component in React always start in Capital letter. Otherwise it considered as function. First to create Component then export it.

Difference b/w function & Component:-

function:- Block of code that perform specific task and return a value.

Component:- Special kind of function that return UI (JSX). UI + logic.