

React JS

ReactJS

- why?
- ① fast b/c, Virtual DOM.
 - ② Easy to learn
 - ③ Large Community.

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

- Setup ◦ Basics ◦ Hooks ◦ form handling
- Routing ◦ API calls ◦ Advance Concept
- Redux ◦ React 16 features ◦ Tailwind with React
- Mini Project ◦ Main Project. etc.

LTS: - Long term Support.

Installation

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

Steps

- npm create vite
- framework : React
- variant : javascript
- Project name

To Run :- npm run dev.

index.html (execute first) <div id="root"> </div>
 main.jsx
 ↴
 createRoot(document.getelementbyID('root')).render(

getelementbyID('root'))

Pro Standard-D

* Component always start by capital letter

```
function App() {  
  return (  
    Wrapper div. ← [ < > ] all divs  
    ) < / >  
  }  
}
```

Note:-

Component only return single div.
you can use multiple divs by wrapping them in div one.

New file in React: use (.JSX).

↓ export default ;

Interview:-

Diff b/w lib & framework:-

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

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.json - nested information

③ 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 />

①
②
③

④

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.