**React Library**

**React:**

* it is a JavaScript library
* use for building user interface
* used in single page application
* create user interface from component
* maintained by Fb

**way react is fast ?**

* it load data very Fastly so for that i user experience in good
* react use virtual Dom ( there are 2 Dom ( real Dom) )
* virtual Dom update only required list

**Create React App (CRA):**

- Uses Webpack (slower).

- Slower dev startup and rebuild times.

- More boilerplate.

- Harder to customize (needs "eject" for custom config).

**- Vite:**

- Uses ESBuild (faster) for dev and Rollup for production.

- Instant startup, faster HMR (Hot Module Replacement).

- Lightweight, faster builds.

- Easier customization and modern development features.

**In short:** Vite is faster and more modern compared to CRA, especially for larger projects.

**Module**

* Its is used for import and export
* Eg. (import, export , default import … )

**Extension**:

* It is used for fast speeding during the code
* For react we use ( **ES7+ React/Redux/React-Native snippets )** extensionit give him suggestion and some logic etc.

**Package. Json –** dependency list

**Package-lock. Json** – manage all packages version & description details

**Node module** – All library & Packages folder

**JSX:**

* JavaScript + XML
* We can write both JavaScript and html tag used in JSX

**Component:**

Two types

* Class based component
* Functional based component

**Props:**

* We used props when we send data from parent to child then we write props in child component

**Use state:**

* Its is a react hooks. ( hooks are function of the react )
* Using a state we can manipulate data in our react app.
* E.g.: [ count, setcount ] = useState (“”).