**React:**

JavaScript library which is used to make interactive user interfaces.

HTML for creating content

CSS for style content.

JavaScript for generating dynamic content/ generating live content/ for events also.

**Advantages of using react:**

There are the following advantages

Increase performance.

Decrease the line of code.

Faster development.

**How does react work:**

Component-based development library.

Component is a piece/ part of UI.

Create components separately.

every component has its own/separate HTML (JSX), CSS, and JS.

Components can be used again on the same page and again but with different data.

Components cannot be dependent on each other

**Node:**

(Provides)It is a Java script environment/runtime.

Js runtime = running environment for JS.

**Note:** run JavaScript anywhere on PC without using any HTML.

Brower by default running environment for JavaScript.

Note: if we want to run JavaScript outside the browser, we need node JS.

Download and install node

>node –version

>node -v

**NPM (Node Package Manager):**

There are a lot of libraries, and React is one of them.

NPM is a tool that you get when you install node js to help you install, uninstall, and manage libraries in your project.

**NPX (ode Package eXecute):**

Sometimes don’t you want to download the tool and directly use the library, then use npx. Npx executes the package from the internet without even downloading to the pc

**Setup react project:**

>cd react project

>npm create-react-app myapp

>cd myapp

>npm start

>ctrl+c

>npm run build

**Folder structure:**

**Package.json: -** just an overview of libraries

It is the heart of any JS project.

The configuration file of any js project.

Keep track of project information.

**Package-Lock \_JSON:**

Extended version of pakage.json

Information about dependencies/libraries in details

**Node Module:** contains dependencies

All dependencies mentioned in package.js are present in the node module folder.

Libraries are also called modules.

Modules are simply nothing but collections of function.

The library is nothing but a collection of modules

>delete node module folder

>npm install

**Public (Index.htm):**



Note: The public folder keeps assets.

Two components have a single js file.

**SRC Folder:**

Contains components.

Component is nothing but a function returning some html that’s all.

**Guideline for component**

Start with capital & follow camel case.

The component name should be as component file name.