**ReactJs** – ReactJs is a JavaScript library used for building user interfaces.

It is created/maintained by Facebook.

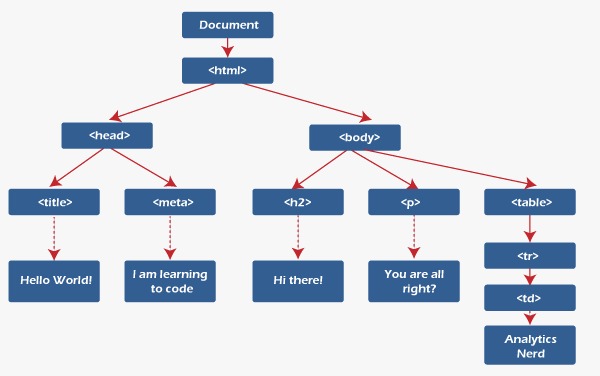
React is used to create single page application (if we want to add or update something on web page then we don’t need to change/render whole page, just add or update required section and it will work).

React working is based on reusable component. (For ex- suppose you created a component card. And you need to use it at many places in your project. So, you don’t need to create new card every time, just use that card component).

React work on virtual DOM(document object model). (if we change something in your project, firstly it will change in virtual DOM, then update it in real DOM).

Note- DOM stands for **'Document Object Model'.** It is a structured representation of HTML in the webpage or application. It represents the entire UI**(User Interface)** of the *web application as the tree data structure.*

It is a *structural representation of HTML elements* of a web application in simple words.



We work on react with HTML,CSS, JavaScript and NodeJs.

**NPX –** NPM stands for “Node Package Execute”.

**NPM –** NPM stands for “node package manager”.

Npm is the world's largest Software Registry. The registry contains over 800,000 code packages. Open-source developers use npm to share software.

All **npm** packages are defined in files called **package.json**.

**npm** can manage **dependencies**.

**npm** can (in one command line) install all the dependencies of a project.

Dependencies are also defined in **package.json**.

**Few important commands-**

Command to create a react app in nodejs – “npx create-react-app app-name.”

npm start

Starts the development server.

npm run build

Bundles the app into static files for production.

npm test

Starts the test runner.

npm run eject

Removes this tool and copies build dependencies, configuration files

and scripts into the app directory. If you do this, you can’t go back!

cd project-name – to change directory to project name.

Ctrl+C – to terminate the program.

**Bootstrap -** **Bootstrap** is the **CSS Framework** for developing responsive and mobile-first websites. It contains predefined styles from CSS.