React Day 01

React:

* It’s a Javascript Library.
* Developed and released by **FACEBOOK.**
* It’s a Single page application.
* Re-useable UI Components.

How React Works:

* It’s does not involve DOM (Document Object Model) directly.
* It creates a **VIRTUAL DOM** (Copy of DOM) and all the creation, updating and manipulation are done in virtual dom.
* Finally compare with actual DOM if there are any changes on it, they make changes on a particular section.
* While doing this kind of method, it reduces the Memory space and increases the Processing speed.

Components:

1.Class Components

2.Functional Components

DOM:

* It defines Document Object Model, an API for HTML document and interface that defines how the browser reads that document.
* DOM Nodes: Particular Element.
* DOM Trees: Tree like structure each HTML document it referred to as document tree.
* DOM Manipulation: Makes some changes like add , remove or modify the elements.

Angular vs React:

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| --- | --- |
| Angular | React |
| * Every checking period its checks like 2sec. if there are any changes occur make the change. while checking its checks all the components on the period of time it takes more memory that makes loading Issues | * While using observed state like useState () stage management. we defined its checks that state only so that we can reduce memory consumption and loading issues |

React Project Setup:

1. Create a folder directory.
2. Vs code -> terminal -> npm install create-react-app

npm = Is a package manager **Installer**

1. npx create-react-app app-name

npx= Is an **Executer**

1. npm start
2. npm run build

react =>

react-dom=>

read scripts=>