Learn React.

⊙ glit lab.

① How to Create a React App:-

Step-1. Create a folder and open Visual Studio Code. and open terminal.

Step-2. npx create-react-app learn-react.
Syntax. Appname.

② JSX :- it Stand for Javascript XML. JSX allow us to write HTML in React. JSX makes it easier to write and add HTML in React.

③ Rendering Element :-

library :- Uses for Customize object. to create Customize website we use. library function.

framework :- Structure way we cannot do. any big change.

Page.js.

```
import React from 'react';

const App = () => {
  return (
    <div>  ↑ </div>.
  )          This place you can write code.
};

export default App;
```

Real DOM. vs. Virtual DOM.

- HTML
  - Body
    - Div
      - h1 ← if title change then whole DOM will Reload.

Virtual DOM will Create Copy of whole DOM.

Copy → Copy1
Copy → Copy2.

it Cannot Changed the whole part Only necessary things.

So it Cannot Reload the whole page.

React and most Library using Virtual DOM.

```
"use client"
import React, {useState} from 'react'

Const Page = () => {
    Const [marks, SetMarks] = useState(80)

    return (
    <>
        <h1> My marks were {marks} </h1>
        <button onClick = {() => {
            SetMarks(33)
        }} Update </button>
    </>
    );
}
export default Page.
```

React

Props ⇒ data flow from children to Parent.
data Pass.

Routing : Going One page to another without Reload.

React To-do List.

with the help of Next.js.

Page No
Date

① Step-1. Step-up.

(.)

npx Create-next-app. ← it Create.

todolist ← App name.

(.)

In terminal cd - todolist.

then npm run dev.

(.) it will start on Local host : 3000.

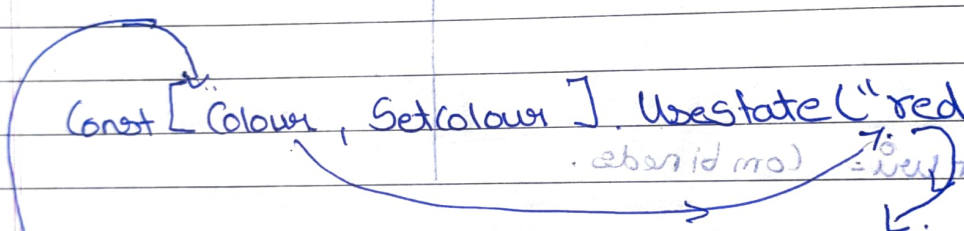
Const [, Set] = useState( )

- UseEffect.
- UseRef.
- UseContext.
- UseState.
- Create Context.

(.) UseState :-

↓ import {UseState} from react.

it is function or a hook that be called or pass the Value in them.



it can be also passed Array, object in them in UseState.

Const [Count, SetCount] Usestate("0");

Current Value ↓ updated Value.

it will keep track of data changes Over time.

⊙ Useeffect :- What will be the effect is shown after updating. Use effect State is used.

it is basically use fetchdata or timer or update the data. What happen if we click.

eg:-

```
useEffect(() => {
  setTimeOut(() => {
    setCount((count => count+1);
  }, 1000);
}, []);
```

function → it cannot changed and used to store previous value.

useRef :- it preserve value across various re-render and do not cause re-renderes whenever a value is changed they mate the application faster and help in caching and storing previous values.

Syntax

```
const refContainer = useRef(initialValue);
```

it can be used to store a mutable value that does not cause a re-render when updated.

Use Context :- It is a way to pass data down through a Component tree without having to pass props down through every level.

Navbar, Home Dashboard Reports. Unique Blocked visitors.

- Otp Verific