**React notes**

Install node

Go to command prompt-create folder -once done

Type npm create vite@latest then select react then javascript

Then go to vs code type npm install under the folder created then npm dev run / npm run dev

Then it will take you to link open then ..there will be default web page

Node modules – packages

Public files- static files which do not change like images

Src – actual source code

Components- small parts which are usable

Assets -images fonts

Styles- css

Eslintrc- shows warnings, errors and problems

Package – json files ..contains name , version, dependencies

Dev dependencies -only used to write code ..there is no need to deploy this

Vite.config.js contains vite config

App.jsx-default code

import { useState } from 'react'

import reactLogo from './assets/react.svg'

import viteLogo from '/vite.svg'

import './App.css'

function App() {

  const [count, setCount] = useState(0)

  return (

    <>

      <div>

        <a href="https://vitejs.dev" target="\_blank">

          <img src={viteLogo} className="logo" alt="Vite logo" />

        </a>

        <a href="https://react.dev" target="\_blank">

          <img src={reactLogo} className="logo react" alt="React logo" />

        </a>

      </div>

      <h1>Vite + React</h1>

      <div className="card">

        <button onClick={() => setCount((count) => count + 1)}>

          count is {count}

        </button>

        <p>

          Edit <code>src/App.jsx</code> and save to test HMR

        </p>

      </div>

      <p className="read-the-docs">

        Click on the Vite and React logos to learn more

      </p>

    </>

  )

}

export default App

name export -case – we use {name of function} like import {ABC-function name} from “/.ABC”

Bootstrap-npm i [bootstrap@5.3.3](mailto:bootstrap@5.3.3)

import 'bootstrap/dist/css/bootstrap.min.css'

 <React.Fragment>

      <h1>Healthy foods</h1>

      <ul class="list-group">

        <li class="list-group-item">Dal</li>

        <li class="list-group-item">Vegetables</li>

        <li class="list-group-item">Roti</li>

        <li class="list-group-item">Salads</li>

        <li class="list-group-item">Milk</li>

      </ul>

    </React.Fragment>

Map

function App() {

  let foodItems = ["Dal", "Vegetables", "Roti", "Salads", "Milk", "Ghee"];

  return (

    <>

      <h1>Healthy foods</h1>

      <ul class="list-group">

        {foodItems.map((Item) => (

          <li class="list-group-item">{Item}</li>

        ))}

      </ul>

    </>

  );

}

Conditional rendering

Ternary operator

function App() {

  // "Dal", "Vegetables", "Roti", "Salads", "Milk", "Ghee"

  // let foodItems = [];

  let foodItems = ["Dal", "Vegetables", "Roti", "Salads", "Milk", "Ghee"];

  /\*if (foodItems.length === 0) {

    return <h3>I am hungry</h3>;

  }\*/

  let empty = foodItems.length === 0 ? <h3>I am hungry</h3> : null;

  return (

    <>

      <h1>Healthy foods</h1>

      {empty}

      <ul className="list-group">

        {foodItems.map((Item) => (

          <li key={Item} className="list-group-item">

            {Item}

          </li>

        ))}

      </ul>

    </>

  );

}

export default App;

logical operators

function App() {

  // "Dal", "Vegetables", "Roti", "Salads", "Milk", "Ghee"

  // let foodItems = [];

  let foodItems = ["Dal", "Vegetables", "Roti", "Salads", "Milk", "Ghee"];

  /\*if (foodItems.length === 0) {

    return <h3>I am hungry</h3>;

  }\*/

  return (

    <>

      <h1>Healthy foods</h1>

      {foodItems.length === 0 && <h3>I am hungry</h3>}

      <ul className="list-group">

        {foodItems.map((Item) => (

          <li key={Item} className="list-group-item">

            {Item}

          </li>

        ))}

      </ul>

    </>

  );

}

Passing data via props

Passing Children

const Container = (props) => {

  return <div>{props.children}</div>;

};

export default Container;

handling events

const Items = ({ foodItem }) => {

  let beingBought = (event) => {

    console.log(event);

    console.log(`${foodItem} is being bought`);

  };

  return (

    <li className={`${styles["kg-item"]} list-group-item`}>

      <span className={styles["kg-span"]}>{foodItem}</span>

      <button

        className={`${styles["buttons"]} btn btn-success`}

        onClick={(event) => beingBought(event)}

      >

        Buy

      </button>

    </li>

  );

};

export default Items;

// list-group-item

Passing functions via props

return (

    <li className={`${styles["kg-item"]} list-group-item`}>

      <span className={styles["kg-span"]}>{foodItem}</span>

      <button

        className={`${styles["buttons"]} btn btn-success`}

        onClick={handledByParent}

      >

        Buy

      </button>

    </li>

  );

};

return (

    <ul className="list-group">

      {itms.map((Item) => (

        <Items

          key={Item}

          foodItem={Item}

          handledByParent={() => console.log(`${Item} bought`)}

        ></Items>

      ))}

    </ul>

  );

How react works

Using forms

Use ref-hook

Context API

User Reducer-hook

npm install react-icons –save

Introduction to dummy Json

useEffect Hook

Handling loading state

useCallBack hook

Redux

For node

Npm init -y

Npm install redux

Node abc.js---to run

To use with react we have to use

Npm install redux

Npm install react-redux

Redux toolkit- to install

Npm install @reduxjs/toolkit

Remove redux from package.json

Import {createSlice} from ‘@reduxjs/toolkit’