REACT ASSIGNMENTS

1.

**src/components/countWord.js**

import React, { useState } from 'react';

const WordCounter = () => {

const [wordCount, setWordCount] = useState(0);

const countWord = (event) => {

const text = event.target.value;

const words = text.trim().split(/\s+/);

setWordCount(words.length);

};

return (

<div>

<textarea id="word" onInput={countWord} rows="10" cols="60" />

<div>No of words entered are: {wordCount}</div>

</div>

);

};

export default WordCounter;

**src/app.js**

import logo from './logo.svg';

import './App.css';

import WordCounter from './Components/countWord';

function App() {

return (

<div className="App">

<h1>Responsive Paragraph Word Counter</h1>

<WordCounter/>

</div>

);

}

export default App;

2.

**App.js**

import { Calculator } from './components/Calc';

function App() {

return (

<div className="App">

<Calculator/>

</div>

);

}

export default App;

**src/components/Calc.js**

import {Component} from "react";

import './style.css';

export class Calculator extends Component{

constructor(){

super();

this.state={exp:"",history:""};

}

add=(event)=>{

this.setState({

exp:this.state.exp+event.target.id

});

}

calc=()=>{

try{

let m=eval(this.state.exp);

this.setState({

exp:m,

history:this.state.history+'\n'+this.state.exp

});

}

catch(err){

this.setState({

exp:"Error"

});

}

}

clear =()=>{

this.setState({exp:""});

};

render(){

return(

<div id="container">

<div id="screen">

<div className="camera"></div>

<p className="history">{this.state.history}</p>

<div className="exp"> <h2>{this.state.exp}</h2></div>

</div>

<div id="keys">

<div id="left">

<div class="key" id="7" onClick={this.add} >7️⃣</div>

<div class="key" id="8" onClick={this.add} >8️⃣</div>

<div class="key" id="9" onClick={this.add} >9️⃣</div>

<div class="key" id="4" onClick={this.add} >4️⃣</div>

<div class="key" id="5" onClick={this.add} >5️⃣</div>

<div class="key" id="6" onClick={this.add} >6️⃣</div>

<div class="key" id="1" onClick={this.add} >1️⃣</div>

<div class="key" id="2" onClick={this.add} >2️⃣</div>

<div class="key" id="3" onClick={this.add} >3️⃣</div>

<div class="key" id="0" onClick={this.add} >0️⃣</div>

<div class="key" id="." onClick={this.add} >⊡</div>

<div class="key" id="calc" onClick={this.calc} >🟰</div>

</div>

<div id="right">

<div class="key" id="back" onClick={this.clear}>🔙</div>

<div class="key" id="/" onClick={this.add} >➗</div>

<div class="key" id="\*" onClick={this.add} >✖</div>

<div class="key" id="-" onClick={this.add} >➖</div>

<div class="key" id="+" onClick={this.add} >➕</div>

</div>

</div>

</div>

)

}

}

**src/components/style.css**

.history {

white-space: pre-line;

color: white;

text-align: end;

}

#container {

margin-top: 8%;

color: white;

position: relative;

width:25%;

text-align: center;

margin-left: 35%;

}

#screen {

background-color: #172d67;

width: 100%;

height: 40vh;

border-top-left-radius: 20px;

border-top-right-radius: 20px;

position: relative;

}

.camera{

height: 15px;

width: 15px;

float: left;

background-color: white;

margin: 10px;

border-radius: 15px;

}

.exp {

top:75%;

text-align: end;

position: absolute;

right:10px;

font-size:medium;

}

#keys {

background-color: rgb(7, 11, 38);

cursor:grab;

display: grid;

grid-template-columns: auto auto auto auto;

height: 40vh;

border-bottom-left-radius: 20px;

border-bottom-right-radius: 20px;

grid-template-columns: 75% 25%;

}

#left{

display: grid;

grid-template-columns: auto auto auto;

}

#right{

display: grid;

grid-template-columns: auto;

}

.key {

color: white;

font-size: large;

}

**3.**

**components/palette.js**

import { Component } from "react";

import "./style.css";

export class Color extends Component {

  constructor(props) {

    super(props);

    this.state = {

      toggle: false,

    };

  }

  changeColor=(event)=>{

    const main1=document.getElementById("main1");

    main1.style.backgroundColor=this.props[event.target.id];

    console.log(this.props[event.target.id]);

    this.setState({toggle:false});

}

handleClick=()=>{

    this.setState(

        {toggle:true}

    );

}

  render() {

    return (

        <div id="main1">

          <h1>Color Picker</h1>

          {this.state.toggle ? (

              <div id="main">

                <div className="square" style= {{backgroundColor:this.props.color1}} id="color1" onClick={this.changeColor}></div>

                <div className="square" style={{backgroundColor:this.props.color2}} id="color2"  onClick={this.changeColor}></div>

                <div className="square" style={{backgroundColor:this.props.color3}}  id="color3"onClick={this.changeColor}></div>

                <div className="square" style={{backgroundColor:this.props.color4}} id="color4"  onClick={this.changeColor}></div>

                <div className="square" style={{backgroundColor:this.props.color5}} id="color5" onClick={this.changeColor}></div>

                <div className="square" style={{backgroundColor:this.props.color6}} id="color6" onClick={this.changeColor}></div>

                <div className="square" style={{backgroundColor:this.props.color7}} id="color7" onClick={this.changeColor}></div>

                <div className="square" style={{backgroundColor:this.props.color8}} id="color8" onClick={this.changeColor}></div>

                <div className="square" style={{backgroundColor:this.props.color9}} id="color9" onClick={this.changeColor}></div>

                <div className="square" style={{backgroundColor:this.props.color10}} id="color10" onClick={this.changeColor}></div>

                <div className="square" style={{backgroundColor:this.props.color11}} id="color11" onClick={this.changeColor}></div>

                <div className="square" style={{backgroundColor:this.props.color12}} id="color12" onClick={this.changeColor}></div>

                <div className="square" style={{backgroundColor:this.props.color13}} id="color13" onClick={this.changeColor}></div>

                <div className="square" style={{backgroundColor:this.props.color14}} id="color14" onClick={this.changeColor}></div>

                <div className="square" style={{backgroundColor:this.props.color15}} id="color15" onClick={this.changeColor}></div>

                <div className="square" style={{backgroundColor:this.props.color16}} id="color16" onClick={this.changeColor}></div>

              </div>

          ) :  <div></div>}

          <button onClick={this.handleClick}>Show Color Pallete</button>

        </div>

    );

  }

}

**components/style.css**

h1{

    font-family: serif;

}

button{

    padding:2px;

    height:40px;

    width:160px;

    text-align: center;

    margin-top:20px;

    color:white;

    border:none;

    background-color:rgb(12, 177, 12);

    border-radius:5px ;

    margin-top:10px;

    margin-left:10px;

}

.square{

    padding:2.4%;

    margin-left: 0.25%;

    box-shadow: 0 5px 5px 0 rgba(0,0,0,0.5);

}

#main1{

    width:100%;

    height:100vh;

    text-align: center;

    padding-top:15%;

}

#main{

    place-self: center;

    display:flex;

    margin-left: 20%;

}

**App.js**

import {palette} from './components/palette';

function App() {

  return (

    <div className="App">

      <palette />

    </div>

  );

}

export default App;

**index.js**

import React from 'react';

import ReactDOM from 'react-dom/client';

import './index.css';

import reportWebVitals from './reportWebVitals';

import {Color} from './components/palette';

const root = ReactDOM.createRoot(document.getElementById('root'));

root.render(

    <Color  color1="#ffff00" color2="#fe00fe" color3="#00ffff" color4="#fe0000" color5="#00ff00"  color6="#0000fe" color7="#008000" color8="#fe6347" color9="#00cfd1" color10="#fea500" color11="#81007f" color12="#ffc0cb" color13="#8b4413" color14="#ff8b00" color15="#4683b4" color16="#fed700"></Color>

);

reportWebVitals();

**4.**

**index.css**

body {

  margin: 0;

  font-family: -apple-system, BlinkMacSystemFont, 'Segoe UI', 'Roboto', 'Oxygen',

    'Ubuntu', 'Cantarell', 'Fira Sans', 'Droid Sans', 'Helvetica Neue',

    sans-serif;

  -webkit-font-smoothing: antialiased;

  -moz-osx-font-smoothing: grayscale;

  background-color: black;

}

code {

  font-family: source-code-pro, Menlo, Monaco, Consolas, 'Courier New',

    monospace;

}

**App.js**

import './App.css';

import Details from './components/Info';

function App() {

  return (

    <div className="App">

      <Details/>

    </div>

  );

}

export default App;

**components/Info.js**

import {useState,useEffect,Component} from 'react';

import axios from 'axios';

import './style.css';

const Details=()=>{

  const[users,setUsers]=useState([]);

  useEffect(() => {

    axios.get('https://dummyjson.com/users')

      .then(response => {

        setUsers(response.data.users);

      })

      .catch(error => {

        console.error('Error fetching data:', error);

      });

      console.log(users)

  }, []);

return(

    <div id="main">

        <h1>Dummy data</h1>

        <div id="main1">

        <table>

            <thead>

            <tr>

                <th>Sno</th>

                <th>Profile Pic</th>

                <th>First Name</th>

                <th>Last Name</th>

                <th>Gender</th>

                <th>E-mail</th>

                <th>Username</th>

                <th>Domain</th>

                <th>IP</th>

                <th>University</th>

            </tr>

            </thead>

            <tbody>

                {

                    users.map(user=>(

                    <tr key={user.id}>

                        <td>{user.id}</td>

                        <td><img src={user.image} alt={user.firstName}/></td>

                        <td>{user.firstName}</td>

                        <td>{user.lastName}</td>

                        <td>{user.gender}</td>

                        <td>{user.email}</td>

                        <td>{user.username}</td>

                        <td>{user.domain}</td>

                        <td>{user.ip}</td>

                        <td>{user.university}</td>

                    </tr>

                    ))

                }

            </tbody>

        </table>

        </div>

    </div>

)

}

export default Details;

**components/style.css**

#main1 {

    border: 3px white solid;

    text-align: center;

    color: white;

    min-width: fit-content;

}

img {

    width: 90px;

}

th {

   border-bottom :2px white solid;

   text-align:center;

}

td{

    width:0.5%;

}

#main {

    margin-bottom: 2%;

    padding-left:3%;

    padding-right: 3%;

}

h1 {

    text-transform: capitalize;

    color: white;

    text-align: center;

    padding-top: 1%;

}

**5.**

**App.css**

/\* App.css \*/

.App {

  text-align: center;

  padding: 20px;

}

.age-calculator {

  margin: auto;

  width: 50%;

  max-width: 400px;

  border: 1px solid #ccc;

  padding: 20px;

  border-radius: 5px;

}

input {

  width: 100%;

  margin: 10px 0;

  padding: 8px;

  box-sizing: border-box;

}

button {

  width: 100%;

  padding: 10px;

  cursor: pointer;

}

p {

  margin-top: 10px;

  font-size: 18px;

  font-weight: bold;

}

**Agecalculator.js** // src/AgeCalculator.js

import React, { useState } from 'react';

const AgeCalculator = () => {

  const [dob, setDob] = useState('');

  const [age, setAge] = useState(0);

  const calculateAge = () => {

    const dateParts = dob.split('/'); // Split the input by /

    if (dateParts.length === 3) {

      const day = parseInt(dateParts[0], 10);

      const month = parseInt(dateParts[1], 10);

      const year = parseInt(dateParts[2], 10);

      if (!isNaN(day) && !isNaN(month) && !isNaN(year)) {

        const birthDate = new Date(year, month - 1, day); // Months are zero-based

        const currentDate = new Date();

        const ageInMilliseconds = currentDate - birthDate;

        const ageInYears = Math.floor(ageInMilliseconds / (365.25 \* 24 \* 60 \* 60 \* 1000));

        setAge(ageInYears);

        return;

      }

    }

    // Handle invalid date input

    alert('Please enter a valid date of birth (dd/mm/yyyy).');

  };

  return (

    <div className="age-calculator">

      <h1>Age Calculator</h1>

      <h2>Enter Your Date of Birth</h2>

      <input

        type="text"

        placeholder="dd/mm/yyyy"

        value={dob}

        onChange={(e) => setDob(e.target.value)}

      />

      <button onClick={calculateAge} style={{ backgroundColor: 'blue', color: 'white' }}>

        Calculate Age

      </button>

      {age !== null && <p>You are {age} years old.</p>}

    </div>

  );

};

export default AgeCalculator;

**App.js**

// src/App.js

import React from 'react';

import AgeCalculator from './AgeCalculator';

function App() {

  return (

    <div className="App">

      <AgeCalculator />

    </div>

  );

}

export default App;

**6.**

**App.css**

body {

  font-family: 'Arial', sans-serif;

  margin: 0;

  padding: 0;

  box-sizing: border-box;

  background-color: #f8f8f8;

  color: #333;

}

header {

  background-color: #333;

  color: #fff;

  padding: 20px;

  text-align: center;

}

section {

  margin: 40px 20px;

  padding: 20px;

  background-color: #fff;

  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

  border-radius: 8px;

}

h1, h2 {

  color: #4d988a;

}

p {

  color: #666;

}

**App.js**

import React from 'react';

import './App.css';

import Header from './components/Header';

import About from './components/About';

import Projects from './components/Projects';

import Contact from './components/Contact';

function App() {

  return (

    <div className="App">

      <Header />

      <About />

      <Projects />

      <Contact />

    </div>

  );

}

export default App;

**Src/components /**

**About.js**

// AboutMe.js

import React from 'react';

const About = () => {

  return (

    <section>

      <h2>About Me</h2>

      <p>

        Hi there! I'm, a dedicated and enthusiastic web developer.I love bringing creativity,

        attention to detail, and a passion for crafting seamless user experiences.

      </p>

    </section>

  );

};

export default About;

**Contact.js**

// Contact.js

import React from 'react';

const Contact = () => {

  return (

    <section>

      <h2>Contact</h2>

      <p>

        I'm always open to new opportunities and collaborations.

      </p>

      <ul>

        <li>

          <strong>Email:</strong> <a href=" ">Email</a>

        </li>

        <li>

          <strong>LinkedIn:</strong> <a href=" " target="\_blank" rel="noopener noreferrer">Linkedin</a>

        </li>

        <li>

          <strong>GitHub:</strong> <a href=" " target="\_blank" rel="noopener noreferrer">github</a>

        </li>

      </ul>

      <p>

        I'm looking forward to connecting with you!

      </p>

    </section>

  );

};

export default Contact;

**Header.js**

import React from 'react';

const Header = () => {

  return (

    <header>

      <h1>me</h1>

      <p>Web Developer</p>

    </header>

  );

}

export default Header;

**Projects.js**

import React from 'react';

const Projects = () => {

  return (

    <section id="projects">

      <h2>Projects</h2>

      {/\* Add your project components or details here \*/}

    </section>

  );

}

export default Projects;