Week 7\_React 9\_HandsOn

9. ReactJS-HOL

app.js

import React from 'react';

import './App.css';

import ListofPlayers from './ListofPlayers';

import IndianPlayers from './IndianPlayers';

function App() {

  let flag = false;

  return (

    <div className="App">

      <h1>Welcome to Cricket App</h1>

      {flag ? <ListofPlayers /> : <IndianPlayers />}

    </div>

  );

}

export default App;

ListofPlayers.js

import React from 'react';

const ListofPlayers = () => {

  const players = [

    { name: 'Virat', score: 90 },

    { name: 'Rohit', score: 85 },

    { name: 'Dhoni', score: 78 },

    { name: 'Kohli', score: 69 },

    { name: 'Raina', score: 55 },

    { name: 'Rahul', score: 88 },

    { name: 'Gill', score: 40 },

    { name: 'Hardik', score: 100 },

    { name: 'Shami', score: 73 },

    { name: 'Bumrah', score: 50 },

    { name: 'Pant', score: 66 },

  ];

  const filteredPlayers = players.filter(player => player.score < 70);

  return (

    <div>

      <h2>All Players</h2>

      <ul>

        {players.map((p, index) => (

          <li key={index}>{p.name} - {p.score}</li>

        ))}

      </ul>

      <h3>Players with score below 70:</h3>

      <ul>

        {filteredPlayers.map((p, index) => (

          <li key={index}>{p.name} - {p.score}</li>

        ))}

      </ul>

    </div>

  );

};

export default ListofPlayers;

IndianPlayers.js

import React from 'react';

const ListofPlayers = () => {

  const players = [

    { name: 'Virat', score: 90 },

    { name: 'Rohit', score: 85 },

    { name: 'Dhoni', score: 78 },

    { name: 'Kohli', score: 69 },

    { name: 'Raina', score: 55 },

    { name: 'Rahul', score: 88 },

    { name: 'Gill', score: 40 },

    { name: 'Hardik', score: 100 },

    { name: 'Shami', score: 73 },

    { name: 'Bumrah', score: 50 },

    { name: 'Pant', score: 66 },

  ];

  const filteredPlayers = players.filter(player => player.score < 70);

  return (

    <div>

      <h2>All Players</h2>

      <ul>

        {players.map((p, index) => (

          <li key={index}>{p.name} - {p.score}</li>

        ))}

      </ul>

      <h3>Players with score below 70:</h3>

      <ul>

        {filteredPlayers.map((p, index) => (

          <li key={index}>{p.name} - {p.score}</li>

        ))}

      </ul>

    </div>

  );

};

export default ListofPlayers;

index.js

import React from 'react';

import ReactDOM from 'react-dom/client';

import './index.css';

import App from './App';

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

root.render(

  <React.StrictMode>

    <App />

  </React.StrictMode>

);

OUTPUT:

A screenshot of a computer

AI-generated content may be incorrect.

When flag=true

A screenshot of a computer

AI-generated content may be incorrect.

When flag=false

Week 7\_React 10\_HandsOn

10. ReactJS-HOL

App.js

import React from 'react';

import './App.css';

function App() {

  const heading = "Office Space";

  const officeList = [

    { Name: "DBS", Rent: 50000, Address: "Chennai", image: "https://img.freepik.com/free-photo/interior-modern-office\_158595-5237.jpg" },

    { Name: "Regus", Rent: 70000, Address: "Bangalore", image: "https://img.freepik.com/free-photo/contemporary-office-interior-with-modern-furniture\_23-2150913154.jpg" },

    { Name: "WeWork", Rent: 55000, Address: "Hyderabad", image: "https://img.freepik.com/free-photo/business-people-working-office\_1303-15857.jpg" }

  ];

  return (

  <div className="App">

    <h1>{heading}, at Affordable Range</h1>

    {officeList.map((item, index) => {

      let colorClass = item.Rent <= 60000 ? 'textRed' : 'textGreen';

      return (

        <div key={index}>

          <img src={item.image} width="25%" height="25%" alt="Office Space" />

          <h2>Name: {item.Name}</h2>

          <h3 className={colorClass}>Rent: Rs. {item.Rent}</h3>

          <h3>Address: {item.Address}</h3>

        </div>

      );

    })}

  </div>

);

}

export default App;

index.js

import React from 'react';

import ReactDOM from 'react-dom/client';

import './index.css';

import App from './App';

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

root.render(

  <React.StrictMode>

    <App />

  </React.StrictMode>

);

App.css

.App {

  text-align: center;

  margin-top: 30px;

  font-family: Arial, sans-serif;

}

img {

  border-radius: 10px;

  margin: 20px auto;

  display: block;

}

.textRed {

  color: red;

}

.textGreen {

  color: green;

}

h1, h2, h3 {

  margin: 10px 0;

}

OUTPUT:

A computer screen shot of a room with people working on computers

AI-generated content may be incorrect.

Week 7\_React 11\_HandsOn

11. ReactJS-HOL

App.js

import React, { useState } from 'react';

function App() {

  const [count, setCount] = useState(0);

  const [amount, setAmount] = useState('');

  const [currency, setCurrency] = useState('');

  const sayHello = (name) => {

    alert("Hello from " + name);

  };

  const handleIncrement = () => {

    setCount(count + 1);

    sayHello("Member1");

  };

  const handleDecrement = () => {

    setCount(count - 1);

  };

  const sayWelcome = (msg) => {

    alert(msg);

  };

  const handleClick = () => {

    alert("I was clicked");

  };

  const handleSubmit = () => {

    if (currency.toLowerCase() === "euro") {

      let convertedAmount = parseFloat(amount) \* 80;

      alert(`Converting to Euro: Amount is ${convertedAmount}`);

    } else {

      alert("Currency not supported");

    }

  };

  return (

    <div style={{ textAlign: 'center', paddingTop: '30px' }}>

      <h1>{count}</h1>

      <button onClick={handleIncrement}>Increment</button>

      <button onClick={handleDecrement}>Decrement</button>

      <br /><br />

      <button onClick={() => sayWelcome("welcome")}>Say welcome</button>

      <br /><br />

      <button onClick={handleClick}>Click on me</button>

      <br /><br />

      <h2 style={{ color: 'green' }}>Currency Convertor!!!</h2>

      <div>

        <label>Amount: </label>

        <input

          type="text"

          value={amount}

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

        />

        <br /><br />

        <label>Currency: </label>

        <input

          type="text"

          value={currency}

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

        />

        <br /><br />

        <button onClick={handleSubmit}>Submit</button>

      </div>

    </div>

  );

}

export default App;

OUTPUT:

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

Week 7\_React 12\_HandsOn

12. ReactJS-HOL

App.js

import React, { useState } from 'react';

// Login Button Component

function LoginButton(props) {

  return <button onClick={props.onClick}>Login</button>;

}

// Logout Button Component

function LogoutButton(props) {

  return <button onClick={props.onClick}>Logout</button>;

}

// User Greeting Component

function UserGreeting() {

  return (

    <div>

      <h1>Welcome back</h1>

      <p>Flight Details:</p>

      <ul>

        <li>✈️ Hyderabad → Delhi - 10:00 AM</li>

        <li>✈️ Chennai → Mumbai - 01:00 PM</li>

        <li>✈️ Bangalore → Kolkata - 05:00 PM</li>

      </ul>

      <button>Book Ticket</button>

    </div>

  );

}

// Guest Greeting Component

function GuestGreeting() {

  return (

    <div>

      <h1>Please sign up.</h1>

      <p>You can view flight details only.</p>

    </div>

  );

}

// Conditional Greeting Component

function Greeting(props) {

  const isLoggedIn = props.isLoggedIn;

  if (isLoggedIn) {

    return <UserGreeting />;

  }

  return <GuestGreeting />;

}

// Main App Component

function App() {

  const [isLoggedIn, setIsLoggedIn] = useState(false);

  const handleLoginClick = () => setIsLoggedIn(true);

  const handleLogoutClick = () => setIsLoggedIn(false);

  let button = isLoggedIn ? (

    <LogoutButton onClick={handleLogoutClick} />

  ) : (

    <LoginButton onClick={handleLoginClick} />

  );

  return (

    <div style={{ textAlign: 'center', marginTop: '50px' }}>

      <Greeting isLoggedIn={isLoggedIn} />

      {button}

    </div>

  );

}

export default App;

OUTPUT:

A screenshot of a computer

AI-generated content may be incorrect.

Week 7\_React 13\_HandsOn

13. ReactJS-HOL

App.js

import React from 'react';

import './App.css';

// Data arrays

const books = [

  { id: 101, bname: 'Master React', price: 670 },

  { id: 102, bname: 'Deep Dive into Angular 11', price: 800 },

  { id: 103, bname: 'Mongo Essentials', price: 450 }

];

const blogs = [

  {

    id: 1,

    title: "React Learning",

    author: "Stephen Biz",

    content: "Welcome to learning React!"

  },

  {

    id: 2,

    title: "Installation",

    author: "Schewzdenier",

    content: "You can install React from npm."

  }

];

const courses = [

  { id: 1, name: "Angular", date: "4/5/2021" },

  { id: 2, name: "React", date: "6/3/2021" }

];

// If-Else Conditional Rendering for Courses

function ShowCourses({ isVisible }) {

  if (isVisible) {

    return (

      <div className="column mystyle1">

        <h1>Course Details</h1>

        {courses.map(course => (

          <div key={course.id}>

            <h3>{course.name}</h3>

            <p>{course.date}</p>

          </div>

        ))}

      </div>

    );

  }

  return null;

}

// Ternary Operator Rendering for Books

const BookDetails = ({ show }) => (

  <div className="column st2">

    <h1>Book Details</h1>

    {

      show ?

        books.map(book => (

          <div key={book.id}>

            <h3>{book.bname}</h3>

            <h4>{book.price}</h4>

          </div>

        ))

        : <p>No books to show</p>

    }

  </div>

);

// Logical && Rendering for Blogs

const BlogDetails = ({ show }) => (

  show &&

  <div className="column v1">

    <h1>Blog Details</h1>

    {

      blogs.map(blog => (

        <div key={blog.id}>

          <h2>{blog.title}</h2>

          <h4>{blog.author}</h4>

          <p>{blog.content}</p>

        </div>

      ))

    }

  </div>

);

// Switch-like Rendering Controller

function RenderComponent({ type }) {

  switch (type) {

    case 'book':

      return <BookDetails show={true} />;

    case 'blog':

      return <BlogDetails show={true} />;

    case 'course':

      return <ShowCourses isVisible={true} />;

    default:

      return <p>Please select a valid section</p>;

  }

}

// App Component

function App() {

  return (

    <div className="app-container">

      {/\* Individual components rendered with conditional methods \*/}

      <ShowCourses isVisible={true} />

      <BookDetails show={true} />

      <BlogDetails show={true} />

      {/\* Or render one of them using RenderComponent \*/}

      {/\* <RenderComponent type="course" /> \*/}

    </div>

  );

}

export default App;

OUTPUT:

A screenshot of a computer

AI-generated content may be incorrect.