**React**

**9. ReactJS-HOL**

**Code:**

**//ListOfPlayers.js**

function ListOfPlayers() {

const players = [

{ name: 'Jack', score: 50 },

{ name: 'Michael', score: 70 },

{ name: 'John', score: 40 },

{ name: 'Ann', score: 61 },

{ name: 'Elisabeth', score: 61 },

{ name: 'Sachin', score: 95 },

{ name: 'Dhoni', score: 100 },

{ name: 'Virat', score: 84 },

{ name: 'Jadeja', score: 64 },

{ name: 'Raina', score: 75 },

{ name: 'Rohit', score: 80 }

];

const playersBelow70 = players.filter(player => player.score < 70);

return (

<>

<h1>List of Players</h1>

<ul>

{players.map((player, index) => (

<li key={index}>

Mr. {player.name} {player.score}

</li>

))}

</ul>

<h1>List of Players having Scores Less than 70</h1>

<ul>

{playersBelow70.map((player, index) => (

<li key={index}>

Mr. {player.name} {player.score}

</li>

))}

</ul>

</>

);

}

export default ListOfPlayers;

**//IndianPlayers.js**

function IndianPlayers() {

const indianPlayers = ['Sachin', 'Dhoni', 'Virat', 'Rohit', 'Yuvraj', 'Raina'];

const [firstPlayer, secondPlayer] = indianPlayers;

console.log('Demonstrating Destructuring:', firstPlayer, secondPlayer);

const oddPlayers = indianPlayers.filter((\_, index) => index % 2 === 0);

const evenPlayers = indianPlayers.filter((\_, index) => index % 2 !== 0);

const positionWords = ['First', 'Second', 'Third', 'Fourth', 'Fifth', 'Sixth'];

const T20players = ['First Player', 'Second Player', 'Third Player'];

const RanjiTrophy = ['Fourth Player', 'Fifth Player', 'Sixth Player'];

const mergedPlayers = [...T20players, ...RanjiTrophy];

return (

<>

<h1>Odd Players</h1>

<ul>

{oddPlayers.map((player, index) => (

<li key={index}>

{positionWords[index \* 2]} : {player}{(index \* 2) + 1}

</li>

))}

</ul>

<h1>Even Players</h1>

<ul>

{evenPlayers.map((player, index) => (

<li key={index}>

{positionWords[(index \* 2) + 1]} : {player}{(index \* 2) + 2}

</li>

))}

</ul>

<h1>List of Indian Players Merged:</h1>

<ul>

{mergedPlayers.map((player, index) => (

<li key={index}>

Mr. {player}

</li>

))}

</ul>

</>

);

}

export default IndianPlayers;

**//App.js**

import {useState} from "react";

import ListOfPlayers from './components/ListOfPlayers';

import IndianPlayers from './components/IndianPlayers';

function App() {

  const [flag,setFlag] = useState(true);

  return (

    <div className="App">

      <header className="App-header">

        <button onClick={()=>setFlag(!flag)}>flag={flag?"true":"false"}</button>

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

      </header>

    </div>

  );

}

export default App;

**Output:**

A screenshot of a computer

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A screenshot of a computer

AI-generated content may be incorrect.

**10. ReactJS-HOL**

**Code:**

**/\*App.css\*/**

.textRed {

  color: red;

  font-weight: bold;

}

.textGreen {

  color: green;

  font-weight: bold;

}

.App {

  text-align: center;

  padding: 20px;

}

**//App.js**

import React from 'react';

import './App.css';

import officeImage from './office.png';

function App() {

  const heading = "Office Space";

  const officeList = [

    { Name: "DBS", Rent: 50000, Address: "Chennai" },

    { Name: "WeWork", Rent: 75000, Address: "Bangalore" },

    { Name: "Regus", Rent: 45000, Address: "Hyderabad" }

  ];

  return (

    <div className="App">

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

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

        const rentColor = item.Rent <= 60000 ? "textRed" : "textGreen";

        return (

          <div key={index}>

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

            <h1>Name: {item.Name}</h1>

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

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

            <br />

          </div>

        );

      })}

    </div>

  );

}

export default App;

**Output:**

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A screenshot of a computer

AI-generated content may be incorrect.

**11. ReactJS-HOL**

**Code:**

**/\*App.css\*/**

.App {

text-align: center;

padding: 20px;

font-family: Arial, sans-serif;

}

**//App.js**

import React, { useState } from 'react';

import CurrencyConvertor from './CurrencyConvertor';

function App() {

const [counter, setCounter] = useState(5);

const sayHello = () => {

window.alert('Hello! Member1');

};

const increment = () => {

setCounter(prev => prev + 1);

sayHello();

};

const decrement = () => setCounter(prev => prev - 1);

const sayWelcome = (msg) => {

window.alert(msg);

};

const handleClick = () => {

window.alert('I was clicked');

};

return (

<div style={{ margin: '32px' }}>

<div>{counter}</div>

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

<br />

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

<br />

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

<br />

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

<br /><br />

<CurrencyConvertor />

</div>

);

}

export default App;

**//CurrencyConvertor.js**

import React, { useState } from 'react';

function CurrencyConvertor() {

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

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

  const handleSubmit = (e) => {

    e.preventDefault();

    const conversionRate = 80; // 1 Euro = 80 INR

    const result = parseFloat(amount) \* conversionRate;

    alert(`Converting to ${currency} Amount is ${result}`);

  };

  return (

    <div>

      <h1 style={{ color: 'green' }}>Currency Convertor!!!</h1>

      <form onSubmit={handleSubmit}>

        <label>Amount: </label>

        <input

          type="text"

          value={amount}

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

        />

        <br /><br />

        <label>Currency: </label>

        <textarea

          value={currency}

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

        />

        <br /><br />

        <button type="submit">Submit</button>

      </form>

    </div>

  );

}

export default CurrencyConvertor;

**Output:**

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**12. ReactJS-HOL**

**Code:**

**//App.js**

import React, { useState } from 'react';

function LoginButton(props) {

  return (

    <button onClick={props.onClick}>

      Login

    </button>

  );

}

function LogoutButton(props) {

  return (

    <button onClick={props.onClick}>

      Logout

    </button>

  );

}

function UserGreeting() {

  return (

    <div>

      <h1>Welcome back</h1>

      <FlightDetails />

    </div>

  );

}

function GuestGreeting() {

  return <h1>Please sign up.</h1>;

}

function Greeting(props) {

  const isLoggedIn = props.isLoggedIn;

  if (isLoggedIn) {

    return <UserGreeting />;

  }

  return <GuestGreeting />;

}

function FlightDetails() {

  return (

    <div>

      <h2>Flight Details</h2>

      <ul>

        <li>Flight: Indigo 6E-456 | From: Chennai → Delhi | Time: 10:00 AM</li>

        <li>Flight: Air India AI-123 | From: Bangalore → Mumbai | Time: 3:45 PM</li>

        <li>Flight: SpiceJet SG-678 | From: Hyderabad → Pune | Time: 7:30 PM</li>

      </ul>

      <button>Book Ticket</button>

    </div>

  );

}

function App() {

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

  const handleLoginClick = () => {

    setIsLoggedIn(true);

  };

  const handleLogoutClick = () => {

    setIsLoggedIn(false);

  };

  let button;

  if (isLoggedIn) {

    button = <LogoutButton onClick={handleLogoutClick} />;

  } else {

    button = <LoginButton onClick={handleLoginClick} />;

  }

  return (

    <div className="App">

      <Greeting isLoggedIn={isLoggedIn} />

      {button}

    </div>

  );

}

export default App;

**Output:**

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**13. ReactJS-HOL**

**Code:**

**//data.js**

export 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 }

];

**//BlogDetails.js**

import React, { useState } from "react";

export default function BlogDetails() {

  const [showDetails, setShowDetails] = useState(true);

  return (

    <div>

      {/\*<button onClick={() => setShowDetails(!showDetails)}>

        {showDetails ? 'Hide Blog' : 'Show Blog'}

      </button>\*/}

      {showDetails && (

        <div>

          <b style={{ fontSize: '1.5em' }}>React Learning</b>

          <div>

            <b>Stephen Biz</b>

            <div>Welcome to learning React!</div>

          </div>

          <h2>Installation</h2>

          <p>

            <b>Schwezdenier</b>

            <div>You can install React from npm.</div>

          </p>

        </div>

      )}

    </div>

  );

}

**//BookDetails.js**

import React from "react";

import PropTypes from 'prop-types';

function BookDetails(props) {

  if (!props.books || props.books.length === 0) {

    return <div>No books available</div>;

  }

  return (

    <ul>

      {props.books.map((book) => (

        <div key={book.id}>

          <h3>{book.bname}</h3>

          <h4>{book.price}</h4>

        </div>

      ))}

    </ul>

  );

}

BookDetails.propTypes = {

  books: PropTypes.array.isRequired

};

export default BookDetails;

**//CourseDetails.js**

import React, { useState } from "react";

export default function CourseDetails() {

  const [showCourses, setShowCourses] = useState(true);

  return (

    <div>

      {/\*<button onClick={() => setShowCourses(!showCourses)}>

        {showCourses ? 'Hide Courses' : 'Show Courses'}

      </button>\*/

      {showCourses ? (

        <div>

          <b style={{ fontSize: '1.5em' }}>Angular</b>

          <div>4/5/2021</div>

          <br/>

          <b style={{ fontSize: '1.5em' }}>React</b>

          <div>6/3/2021</div>

        </div>

      ) : (

        <div>Courses are hidden</div>

      )}

    </div>

  );

}

**/\*App.css\*/**

.mystyle1, .st2 {

  min-width: 300px;

  text-align: left;

  margin: 10px 20px;

  padding: 15px;

  border: 1px solid #ddd;

  border-radius: 5px;

}

.vl {

  border-left: 4px solid green;

  height: 350px;

  margin-top: 20px;

}

h1 {

  font-size: 2em;

  margin-bottom: 20px;

  color: #333;

  border-bottom: 2px solid #eee;

  padding-bottom: 10px;

}

button {

  padding: 8px 16px;

  margin-bottom: 10px;

  background-color: #4CAF50;

  color: white;

  border: none;

  border-radius: 4px;

  cursor: pointer;

}

button:hover {

  background-color: #45a049;

}

**//App.js**

import React, { useState } from "react";

import "./App.css";

import { books } from "./components/data.js";

import BookDetails from "./components/BookDetails";

import BlogDetails from "./components/BlogDetails";

import CourseDetails from "./components/CourseDetails";

function App() {

  const [displayMode, setDisplayMode] = useState("all");

  const bookdetSection = (displayMode === "all" || displayMode === "book")

    ? <BookDetails books={books} />

    : null;

  const blogSection = (displayMode === "all" || displayMode === "blog") &&

    <BlogDetails />;

  const renderCourseSection = () => {

    if (displayMode === "all" || displayMode === "course") {

      return <CourseDetails />;

    }

    return null;

  };

  return (

    <div>

      <div style={{

        display: 'flex',

        justifyContent: 'center',

        marginTop: "60px",

        flexWrap: 'wrap'

      }}>

        <div className="mystyle1">

          <h1>Course Details</h1>

          {renderCourseSection()}

        </div>

        <div className="vl"></div>

        <div className="st2">

          <h1>Book Details</h1>

          {bookdetSection}

        </div>

        <div className="vl"></div>

        <div className="st2">

          <h1>Blog Details</h1>

          {blogSection}

        </div>

      </div>

      {/\*<div style={{ textAlign: 'center', margin: '20px' }}>

        <h3>Display Options:</h3>

        <button onClick={() => setDisplayMode("all")}>Show All</button>

        <button onClick={() => setDisplayMode("book")}>Books Only</button>

        <button onClick={() => setDisplayMode("blog")}>Blogs Only</button>

        <button onClick={() => setDisplayMode("course")}>Courses Only</button>

      </div>\*/}

    </div>

  );

}

export default App;

**Output:**

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