**REACT  
9. ReactJS-HOL**

**Create a React Application named “cricketapp” with the following components:**

**ListOfPlayers.js**

import React from 'react';const ListofPlayers = () => { const players = [ { name: 'Virat Kohli', score: 85 }, { name: 'Rohit Sharma', score: 90 }, { name: 'Jasprit Bumrah', score: 60 }, { name: 'KL Rahul', score: 40 }, { name: 'Shubman Gill', score: 75 }, { name: 'Ravindra Jadeja', score: 65 }, { name: 'Hardik Pandya', score: 55 }, { name: 'R Ashwin', score: 45 }, { name: 'Ishan Kishan', score: 95 }, { name: 'Surya Kumar Yadav', score: 88 }, { name: 'Mohammed Shami', score: 70 }, ]; const below70 = players.filter(player => player.score < 70); return ( <div> <h2>All Players:</h2> <ul> {players.map((player, idx) => ( <li key={idx}>{player.name} - {player.score}</li> ))} </ul> <h3>Players with Score Below 70:</h3> <ul> {below70.map((player, idx) => ( <li key={idx}>{player.name} - {player.score}</li> ))} </ul> </div> );};export default ListofPlayers;

**IndianPlayers.js**

import React from 'react';const IndianPlayers = () => { const allPlayers = ['Virat', 'Rohit', 'KL', 'Pant', 'Bumrah', 'Shami', 'Siraj', 'Gill']; // Destructuring odd and even team const oddTeam = allPlayers.filter((\_, idx) => idx % 2 !== 0); const evenTeam = allPlayers.filter((\_, idx) => idx % 2 === 0); const T20Players = ['Hardik', 'Ishan', 'Surya']; const RanjiTrophyPlayers = ['Pujara', 'Rahane', 'Vihari']; const mergedPlayers = [...T20Players, ...RanjiTrophyPlayers]; return ( <div> <h2>Odd Team Players:</h2> <ul> {oddTeam.map((player, idx) => <li key={idx}>{player}</li>)} </ul> <h2>Even Team Players:</h2> <ul> {evenTeam.map((player, idx) => <li key={idx}>{player}</li>)} </ul> <h2>Merged Players (T20 + Ranji Trophy):</h2> <ul> {mergedPlayers.map((player, idx) => <li key={idx}>{player}</li>)} </ul> </div> );};export default IndianPlayers;

**App.js**

import React from 'react';

import ListofPlayers from './Components/ListofPlayers';

import IndianPlayers from './Components/IndianPlayers';

function App() {

const flag = true; // toggle between true or false

return (

<div className="App">

<h1>🏏 Cricket App</h1>

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

</div>

);

}

export default App;

**OUTPUT:**

A screenshot of a cricket app

AI-generated content may be incorrect.

**10. ReactJS-HOL**

**App.js**

import React from 'react';

import logo from './logo.svg';

function App() {

// Object for a single office

const office = {

name: 'TechPark Office',

rent: 75000,

address: '123 Silicon Street, Bengaluru'

};

// List of office objects

const offices = [

{ name: 'Startup Hub', rent: 55000, address: 'MG Road, Mumbai' },

{ name: 'Creative Space', rent: 80000, address: 'HSR Layout, Bengaluru' },

{ name: 'Urban Office', rent: 45000, address: 'Cyber City, Gurgaon' },

{ name: 'Corporate Tower', rent: 95000, address: 'BKC, Mumbai' },

];

// Inline style conditionally based on rent

const getRentStyle = (rent) => {

return {

color: rent < 60000 ? 'red' : 'green',

fontWeight: 'bold',

};

};

return (

<div className="App">

{/\* JSX Heading \*/}

<h1>🏢 Office Space Rental Portal</h1>

{/\* Image with JSX Attribute \*/}

<img

src={logo}

alt="Office Space"

style={{ borderRadius: '10px', marginBottom: '20px',width:"30px",height:"30px",objectFit:"cover" }}

/>

{/\* Display single office object \*/}

<div style={{ margin: '20px 0' }}>

<h2>{office.name}</h2>

<p>Rent: <span style={getRentStyle(office.rent)}>₹{office.rent}</span></p>

<p>Address: {office.address}</p>

</div>

{/\* List of offices using map() \*/}

<h2>Available Offices</h2>

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

<div key={index} style={{ border: '1px solid gray', padding: '10px', margin: '10px 0' }}>

<h3>{item.name}</h3>

<p>Rent: <span style={getRentStyle(item.rent)}>₹{item.rent}</span></p>

<p>Address: {item.address}</p>

</div>

))}

</div>

);

}

export default App;

**OUTPUT:**

A screenshot of a computer

AI-generated content may be incorrect.

**11. ReactJS-HOL**

**Create a React Application “eventexamplesapp” to handle various events of the form elements in HTML.**

**Counter.js**

import React, { useState } from 'react';

const Counter = () => {

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

const incrementValue = () => {

setCount(count + 1);

};

const sayHello = () => {

alert('Hello! Incrementing the counter...');

};

const handleIncrement = () => {

sayHello();

incrementValue();

};

const handleDecrement = () => {

setCount(count - 1);

};

return (

<div>

<h2>Counter Value: {count}</h2>

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

<button onClick={handleDecrement} style={{ marginLeft: '10px' }}>Decrement</button>

</div>

);

};

export default Counter;

**SayWelcome.js**

import React from 'react';

const SayWelcome = () => {

const sayMessage = (msg) => {

alert(`Message: ${msg}`);

};

return (

<div style={{ marginTop: '20px' }}>

<button onClick={() => sayMessage('Welcome!')}>Say Welcome</button>

</div>

);

};

export default SayWelcome;

**SyntheticEventExample.js**

import React from 'react';

const SyntheticEventExample = () => {

const handleClick = (e) => {

e.preventDefault(); // Example of using SyntheticEvent

alert('I was clicked');

};

return (

<div style={{ marginTop: '20px' }}>

<button onClick={handleClick}>OnPress</button>

</div>

);

};

export default SyntheticEventExample;

**CurrencyConvertor.js**

import React, { useState } from 'react';

const CurrencyConvertor = () => {

const [rupees, setRupees] = useState('');

const [euro, setEuro] = useState('');

const handleSubmit = (e) => {

e.preventDefault();

if (!rupees || isNaN(rupees)) {

alert('Please enter a valid amount in rupees');

return;

}

const converted = (parseFloat(rupees) / 88).toFixed(2); // Assume 1 Euro = ₹88

setEuro(converted);

};

return (

<div style={{ marginTop: '30px' }}>

<h3>Currency Convertor</h3>

<form onSubmit={handleSubmit}>

<label>

Enter amount in ₹ Rupees:

<input

type="text"

value={rupees}

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

style={{ marginLeft: '10px' }}

/>

</label>

<button type="submit" style={{ marginLeft: '10px' }}>Convert</button>

</form>

{euro && <p>💶 Euro: €{euro}</p>}

</div>

);

};

export default CurrencyConvertor;

**App.js**

import React from 'react';

import CurrencyConvertor from './CurrencyConvertor';

import SyntheticEventExample from './SyntheticEventExample';

import SayWelcome from './SayWelcome';

import Counter from './Counter';

function App() {

return (

<div style={{ padding: '30px' }}>

<h1>🎯 Event Handling Examples</h1>

<Counter />

<SayWelcome />

<SyntheticEventExample />

<CurrencyConvertor />

</div>

);

}

export default App;

**OUTPUT:**

**12. ReactJS-HOL**

**Create a React Application named “ticketbookingapp” where the guest user can browse the page where the flight details are displayed whereas the logged in user only can book tickets.**

**UserPage.js**

import React from 'react';

const UserPage = () => {

return (

<div>

<h2>🧳 Welcome User</h2>

<p>You can now book tickets and manage your trips.</p>

</div>

);

};

export default UserPage;

**LoginControl.js**

import React, { useState } from 'react';

import GuestPage from './GuestPage';

import UserPage from './UserPage';

const LoginControl = () => {

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

const handleLoginClick = () => {

setIsLoggedIn(true);

};

const handleLogoutClick = () => {

setIsLoggedIn(false);

};

// Using element variables

let button;

let content;

if (isLoggedIn) {

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

content = <UserPage />;

} else {

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

content = <GuestPage />;

}

return (

<div>

{button}

{content}

</div>

);

};

export default LoginControl;

GuestPage.js

import React from 'react';

const GuestPage = () => {

return (

<div>

<h2>✈️ Welcome Guest</h2>

<p>You can browse flights but need to log in to book tickets.</p>

</div>

);

};

export default GuestPage;

**OUTPUT:**

A screen shot of a ticket

AI-generated content may be incorrect.

**13. ReactJS-HOL**

**Create a React App named “bloggerapp” in with 3 components.**

**1. Book Details**

**2. Blog Details**

**3. Course Details**

**BookDetails.js**

import React from 'react';

const BookDetails = () => {

const books = [

{ id: 1, title: 'Atomic Habits', author: 'James Clear' },

{ id: 2, title: 'Deep Work', author: 'Cal Newport' },

];

return (

<div>

<h2>📚 Book Details</h2>

<ul>

{books.map(book => (

<li key={book.id}>

<strong>{book.title}</strong> by {book.author}

</li>

))}

</ul>

</div>

);

};

export default BookDetails;

**BlogDetails.js**

import React from 'react';

const BlogDetails = () => {

const blogs = [

{ id: 101, title: 'React Basics', author: 'Alice' },

{ id: 102, title: 'State Management', author: 'Bob' },

];

return (

<div>

<h2>📝 Blog Details</h2>

<ul>

{blogs.map(blog => (

<li key={blog.id}>

<strong>{blog.title}</strong> by {blog.author}

</li>

))}

</ul>

</div>

);

};

export default BlogDetails;

**CourseDetails.js**

import React from 'react';

const CourseDetails = () => {

const courses = [

{ id: 'C1', title: 'React Fundamentals', duration: '3 weeks' },

{ id: 'C2', title: 'Advanced JS', duration: '4 weeks' },

];

return (

<div>

<h2>🎓 Course Details</h2>

<ul>

{courses.map(course => (

<li key={course.id}>

<strong>{course.title}</strong> - {course.duration}

</li>

))}

</ul>

</div>

);

};

export default CourseDetails;

**MainDisplay.js**

import React, { useState } from 'react';

import BookDetails from './BookDetails';

import BlogDetails from './BlogDetails';

import CourseDetails from './CourseDetails';

const MainDisplay = () => {

const [view, setView] = useState('book'); // Options: 'book', 'blog', 'course'

let content;

if (view === 'book') {

content = <BookDetails />;

} else if (view === 'blog') {

content = <BlogDetails />;

} else {

content = <CourseDetails />;

}

return (

<div>

<h1>📘 BloggerApp Dashboard</h1>

{/\* Navigation Buttons \*/}

<button onClick={() => setView('book')}>Show Books</button>

<button onClick={() => setView('blog')}>Show Blogs</button>

<button onClick={() => setView('course')}>Show Courses</button>

{content}

</div>

);

};

export default MainDisplay;

**App.js**

import React from 'react';

import MainDisplay from './MainDisplay';

function App() {

return (

<div className="App">

<MainDisplay />

</div>

);

}

export default App;

**OUTPUT:**

**A screenshot of a computer

AI-generated content may be incorrect.**