

## Digital Nurture – 4.0 JAVA FSE – Week 7 Assignments

File name: 9. ReactJS-HOL

Name: Hands-on in this document

```
ListofPlayers.js;
import React from 'react';

function ListofPlayers() {
  const players = [
    { name: 'Virat Kohli', score: 85 },
    { name: 'Rohit Sharma', score: 45 },
    { name: 'KL Rahul', score: 78 },
    { name: 'Shubman Gill', score: 60 },
    { name: 'Suryakumar Yadav', score: 95 },
    { name: 'Hardik Pandya', score: 50 },
    { name: 'Ravindra Jadeja', score: 68 },
    { name: 'R Ashwin', score: 30 },
    { name: 'Jasprit Bumrah', score: 15 },
    { name: 'Mohammed Shami', score: 74 },
    { name: 'Kuldeep Yadav', score: 90 }
  ];

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

  return (
    <div>
      <h2>All Players</h2>
      <ul>
        {players.map((player, index) => (
          <li key={index}>{player.name} - {player.score}</li>
        )))
      </ul>

      <h2>Players with Score ≥ 70</h2>
      <ul>
        {filteredPlayers.map((player, index) => (
          <li key={index}>{player.name} - {player.score}</li>
        )))
      </ul>
    </div>
  );
}

export default ListofPlayers;
```

IndianPlayers.js;

```
import React from 'react';

function IndianPlayers() {
  const team = ['Rohit', 'Virat', 'KL Rahul', 'Jadeja', 'Bumrah', 'Shami'];
```

```

// Destructuring to get odd and even indexed players
const oddTeam = team.filter((_, index) => index % 2 === 1);
const evenTeam = team.filter((_, index) => index % 2 === 0);

// Merging T20 and RanjiTrophy players
const T20players = ['Pant', 'Surya', 'Hardik'];
const RanjiTrophyPlayers = ['Unadkat', 'Pujara', 'Karun Nair'];
const allPlayers = [...T20players, ...RanjiTrophyPlayers];

return (
  <div>
    <h2>Odd Team Players</h2>
    <ul>
      {oddTeam.map((player, index) => (
        <li key={index}>{player}</li>
      ))}
    </ul>

    <h2>Even Team Players</h2>
    <ul>
      {evenTeam.map((player, index) => (
        <li key={index}>{player}</li>
      ))}
    </ul>

    <h2>Merged Players (T20 + Ranji Trophy)</h2>
    <ul>
      {allPlayers.map((player, index) => (
        <li key={index}>{player}</li>
      ))}
    </ul>
  </div>
);
}

export default IndianPlayers;

```

App.js;

```

import React from 'react';
import ListofPlayers from './ListofPlayers';
import IndianPlayers from './IndianPlayers';

function App() {
  const flag = true; // Toggle to false to see IndianPlayers

  return (
    <div className="App">
      <h1> 🏏 Cricket App</h1>

```

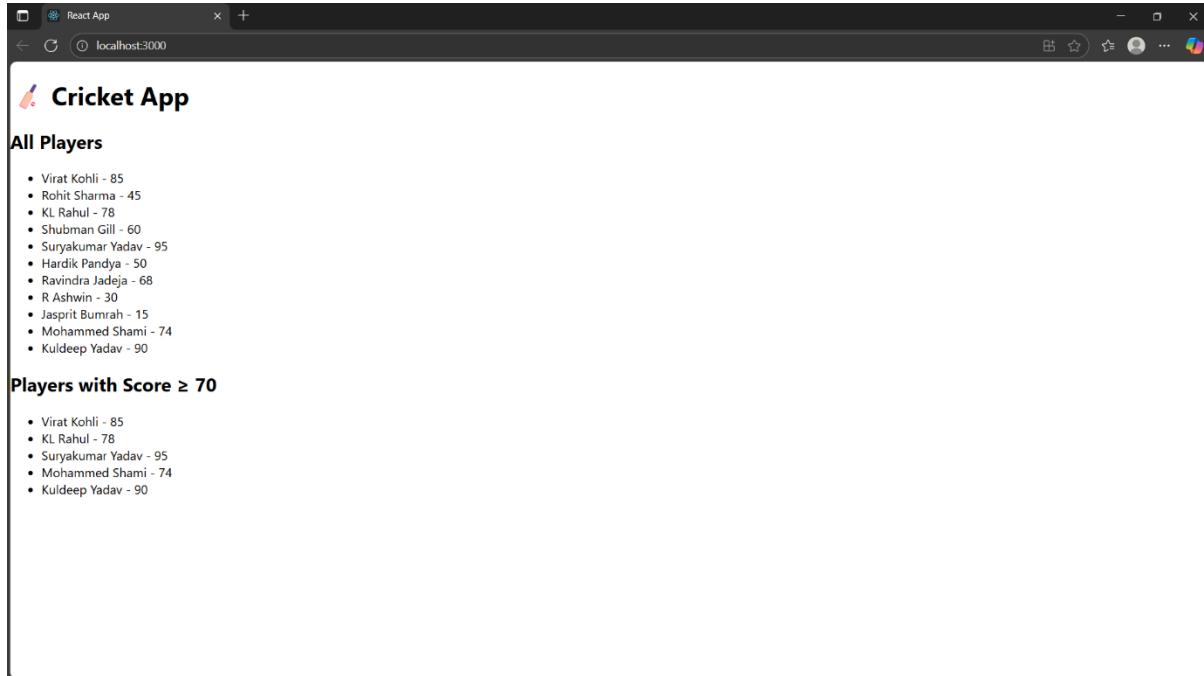
```

    {flag ? <ListOfPlayers /> : <IndianPlayers />}
  </div>
);
}

export default App;

```

Output:



File name: 10. ReactJS-HOL

Name: Hands-on in this document

App.js;

```
import React from 'react';
import './App.css';
```

```
function App() {
  // Heading JSX element
  const heading = <h1>🏢 Office Space Rental Portal</h1>

  // Image JSX with attribute
  const officelImage = (
    
);

// Object representing a single office
const office = {
  name: "Prestige Towers",
  rent: 75000,
  address: "MG Road, Bangalore"
};

// Array of office spaces
const officeList = [
  { name: "WeWork", rent: 85000, address: "Indiranagar, Bangalore" },
  { name: "Cowrks", rent: 55000, address: "HSR Layout, Bangalore" },
  { name: "Regus", rent: 60000, address: "Koramangala, Bangalore" },
  { name: "SmartWorks", rent: 45000, address: "Whitefield, Bangalore" }
];

return (
  <div className="App">
    {heading}
    {officeImage}

    <h2>Main Office</h2>
    <div className="office-card">
      <p><strong>Name:</strong> {office.name}</p>
      <p><strong>Rent:</strong> <span style={{ color: office.rent > 60000 ? 'green' : 'red' }}>{office.rent}</span></p>
      <p><strong>Address:</strong> {office.address}</p>
    </div>

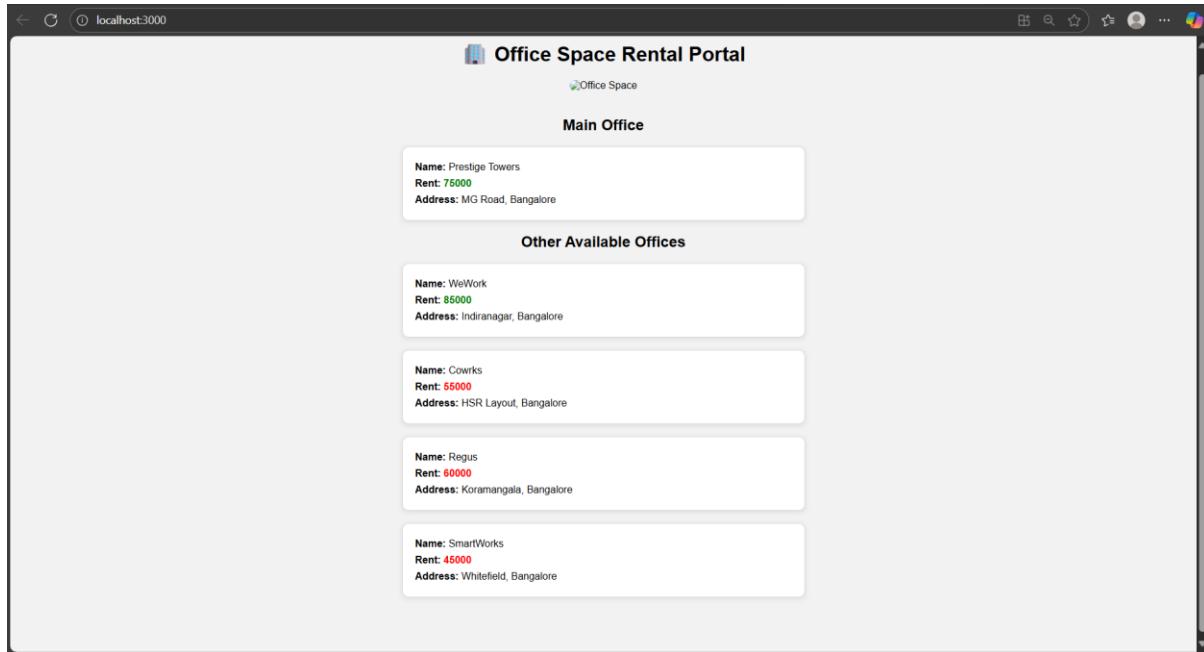
    <h2>Other Available Offices</h2>
    {officeList.map((off, index) => (
      <div key={index} className="office-card">
        <p><strong>Name:</strong> {off.name}</p>
        <p><strong>Rent:</strong> <span style={{ color: off.rent > 60000 ? 'green' : 'red' }}>{off.rent}</span></p>
        <p><strong>Address:</strong> {off.address}</p>
      </div>
    ))}
  </div>
)
```

```
);  
}  
  
export default App;
```

App.css:

```
.App {  
  text-align: center;  
  font-family: Arial, sans-serif;  
  padding: 20px;  
  background-color: #f2f2f2;  
  min-height: 100vh;  
}  
  
.office-card {  
  background-color: #ffffff;  
  border: 1px solid #ddd;  
  border-radius: 10px;  
  padding: 15px 20px;  
  margin: 20px auto;  
  width: 80%;  
  max-width: 600px;  
  text-align: left;  
  box-shadow: 0px 2px 8px rgba(0, 0, 0, 0.1);  
  transition: 0.3s;  
}  
  
.office-card:hover {  
  transform: scale(1.01);  
  box-shadow: 0px 4px 12px rgba(0, 0, 0, 0.15);  
}  
  
.office-card p {  
  margin: 8px 0;  
  font-size: 16px;  
}  
  
.office-card span {  
  font-weight: bold;  
}
```

Output:



File name: 11. ReactJS-HOL

Name: Hands-on in this document

App.js;

```
import React, { useState } from 'react';
import CurrencyConvertor from './CurrencyConvertor';

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

  // Multiple functions for Increment button
  const increment = () => {
    setCount(count + 1);
    sayHello();
  };

  const sayHello = () => {
    console.log("Hello! This is a static message.");
  };

  const decrement = () => {
    setCount(count - 1);
  };

  const sayWelcome = (message) => {
    alert(message);
  };
}
```

```

const handleClick = (event) => {
  alert("I was clicked!");
  console.log("Synthetic Event Type:", event.type);
};

return (
  <div className="App" style={{ textAlign: 'center', padding: '30px' }}>
    <h1>  Event Examples App</h1>

    <h2>Counter: {count}</h2>
    <button onClick={increment}>Increment</button>{' '}
    <button onClick={decrement}>Decrement</button>

    <hr />

    <button onClick={() => sayWelcome("Welcome to the Event App!")}>
      Say Welcome
    </button>

    <hr />

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

    <hr />

    <CurrencyConvertor />
  </div>
);

}

export default App;

```

```

CurrencyConverter.js;
import React, { useState } from 'react';

function CurrencyConvertor() {
  const [rupees, setRupees] = useState("");
  const [euro, setEuro] = useState(null);
  const conversionRate = 0.011; // Example: ₹1 = €0.011

  const handleSubmit = () => {
    const value = parseFloat(rupees);
    if (!isNaN(value)) {
      setEuro((value * conversionRate).toFixed(2));
    } else {
      alert("Please enter a valid number");
    }
  }
}

```

```

    }
};

return (
  <div style={{ marginTop: '40px' }}>
    <h2>Currency Convertor (INR ➔ EURO)</h2>
    <input
      type="text"
      placeholder="Enter amount in ₹"
      value={rupees}
      onChange={(e) => setRupees(e.target.value)}
    />{' '}
    <button onClick={handleSubmit}>Convert</button>

  {euro && (
    <div style={{ marginTop: '10px' }}>
      <strong>€ Euro:</strong> {euro}
    </div>
  )}
</div>
);
}

export default CurrencyConvertor;

```

Output;

The screenshot shows a code editor (VS Code) and a browser window side-by-side. The code editor on the left displays the file structure of a React application named 'EVENTEXAMPLESAPP'. The 'src' folder contains files like App.css, App.js, App.test.js, and CurrencyConverter.js. The 'CurrencyConverter.js' file is open in the editor, showing its code. The browser window on the right shows the application running at 'localhost:3000'. The application has a header 'Event Examples App' and a 'Counter: 0' section with increment and decrement buttons. Below that is a 'Currency Convertor (INR ➔ EURO)' section where an input field shows '1000000' and a button labeled 'Convert'. The output shows '€ Euro: 11000.00'.

```

File Edit Selection View Go Run Terminal Help ⏎ → eventexamplesapp [Administrator] 🌐
EXPLORER JS App.js M JS CurrencyConverter.js U
src > JS CurrencyConverter.js U React App
src > JS CurrencyConverter.js U
1 import React
2
3 function CurrencyConvertor() {
4   const [rupees, setRupees] = useState(0)
5   const [euro, setEuro] = useState(0)
6   const convert = () => {
7     const handelError = (err) => {
8       const va = err.message || 'An error occurred while performing the conversion'
9       if (!isNaN(va)) {
10         setEuro(va)
11       } else {
12         setEuro(0)
13         alert(va)
14       }
15     }
16     const handelSuccess = (res) => {
17       const { success, euro } = res
18       if (success) {
19         setEuro(euro)
20       } else {
21         handelError(res.error)
22       }
23     }
24     const convertRes = async () => {
25       const res = await fetch(`https://api.exchangerate-api.com/v4/latest/INR`)
26       const data = await res.json()
27       handelSuccess(data)
28     }
29     convertRes()
30   }
31   const handleRupeesChange = (e) => {
32     const value = e.target.value
33     const parsedValue = parseFloat(value)
34     if (Number.isNaN(parsedValue)) {
35       setRupees(0)
36     } else {
37       convert()
38     }
39   }
40
41   return (
42     <div style={{ display: 'flex', flex: 1, gap: '10px' }}>
43       <h2>Counter: <span>{rupees}</span></h2>
44       <div>
45         <button>Increment</button>
46         <button>Decrement</button>
47       </div>
48       <hr style={{ border: '1px solid #ccc', margin: '10px 0' }}/>
49       <h2>Currency Convertor (INR ➔ EURO)</h2>
50       <div style={{ display: 'flex', gap: '10px' }}>
51         <input type="text" value={rupees} onChange={handleRupeesChange} />
52         <button>Convert</button>
53       </div>
54       <div style={{ border: '1px solid #ccc', padding: '5px', margin: '10px 0' }}>
55         <strong>€ Euro:</strong> {euro}
56       </div>
57     </div>
58   )
59 }
60
61 export default CurrencyConvertor;

```

File name: 12. ReactJS-HOL

Name: Hands-on in this document

GuestPage.js;

```
import React from 'react';
```

```
function GuestPage() {
```

```
  const flightDetails = [
```

```
    { id: 1, from: "Chennai", to: "Delhi", time: "10:00 AM", price: 4500 },
```

```
    { id: 2, from: "Bangalore", to: "Mumbai", time: "1:30 PM", price: 5500 },
```

```
    { id: 3, from: "Hyderabad", to: "Kolkata", time: "6:00 PM", price: 6000 }
```

```
  ];
```

```
  return (
```

```
    <div>
```

```
      <h2>Available Flights</h2>
```

```
      {flightDetails.map((flight) => (
```

```
        <div key={flight.id} className="flight-card">
```

```
          <p><strong>From:</strong> {flight.from}</p>
```

```
          <p><strong>To:</strong> {flight.to}</p>
```

```
          <p><strong>Time:</strong> {flight.time}</p>
```

```
          <p><strong>Price:</strong> ₹{flight.price}</p>
```

```
          <hr />
```

```
        </div>
```

```
      ))}
```

```
      <p><em>Please login to book tickets.</em></p>
```

```
    </div>
```

```
  );
```

```
}
```

```
export default GuestPage;
```

UserPage.js;

```
import React from 'react';
```

```
function UserPage() {
```

```
  return (
```

```
    <div>
```

```
      <h2>Welcome, User!</h2>
```

```
      <p>You can now book your flight tickets below.</p>
```

```
      <button>Book Ticket</button>
```

```
    </div>
```

```
  );
```

```
}
```

```
export default UserPage;
```

App.js;

```
import React, { useState } from 'react';
```

```
import GuestPage from './GuestPage';
```

```
import UserPage from './UserPage';
```

```

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

  const handleLogin = () => setIsLoggedIn(true);
  const handleLogout = () => setIsLoggedIn(false);

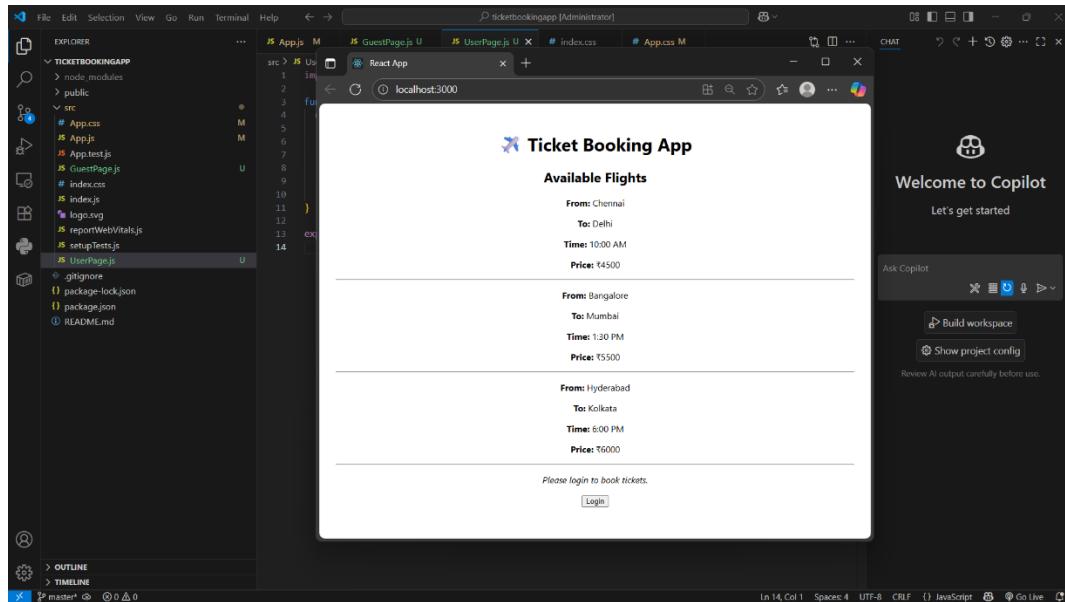
  return (
    <div className="App" style={{ textAlign: 'center', padding: '30px' }}>
      <h1> ✈️ Ticket Booking App</h1>

      {isLoggedIn ? (
        <>
          <UserPage />
          <button onClick={handleLogout}>Logout</button>
        </>
      ) : (
        <>
          <GuestPage />
          <button onClick={handleLogin}>Login</button>
        </>
      )}
    </div>
  );
}

export default App;

```

Output;



File name: 13. ReactJS-HOL

Name: Hands-on in this document

App.js;

```
import React, { useState } from 'react';
import BookDetails from './BookDetails';
import BlogDetails from './BlogDetails';
import CourseDetails from './CourseDetails';

function App() {
  const [selected, setSelected] = useState('book') // default option

  // Conditional Rendering using element variable
  let content;
  if (selected === 'book') {
    content = <BookDetails />;
  } else if (selected === 'blog') {
    content = <BlogDetails />;
  } else if (selected === 'course') {
    content = <CourseDetails />;
  }

  // Conditional Rendering using function
  const renderComponent = () => {
    switch (selected) {
      case 'book':
        return <BookDetails />;
      case 'blog':
        return <BlogDetails />;
      case 'course':
        return <CourseDetails />;
      default:
        return <h3>Please select a component</h3>;
    }
  };
}

return (
  <div className="App" style={{ textAlign: 'center', padding: '30px' }}>
    <h1>  Blogger App </h1>

    <select onChange={(e) => setSelected(e.target.value)} value={selected}>
      <option value="book">Book Details</option>
      <option value="blog">Blog Details</option>
      <option value="course">Course Details</option>
      <option value="none">None</option>
    </select>

    <hr />

    <h2>Using If...Else Variable:</h2>
  </div>
)
```

```
{content}
<hr />
<h2>Using Function with switch-case:</h2>
{renderComponent()}
<hr />
<h2>Using Ternary Operator:</h2>
{selected === 'book' ? <BookDetails /> :
 selected === 'blog' ? <BlogDetails /> :
 selected === 'course' ? <CourseDetails /> :
 <p>No selection made</p>}
<hr />
<h2>Using Logical && operator:</h2>
{selected === 'book' && <BookDetails />}
{selected === 'blog' && <BlogDetails />}
{selected === 'course' && <CourseDetails />}
</div>
);
}
```

```
export default App;
```

```
BlogDetails.js;
```

```
import React from 'react';
```

```
function BlogDetails() {
  return (
    <div>
      <h3>📝 Blog Details</h3>
      <p>Title: Understanding JSX</p>
      <p>Author: Jane Smith</p>
      <p>Date: August 7, 2025</p>
    </div>
  );
}
```

```
export default BlogDetails;
```

```
BookDetails.js;
```

```
import React from 'react';
```

```
function BookDetails() {
  return (
    <div>
      <h3>📘 Book Details</h3>
      <p>Title: The React Handbook</p>
      <p>Author: John Doe</p>
      <p>Pages: 350</p>
    </div>
  );
}
export default BookDetails;
```

CourseDetails.js;

```
import React from 'react';

function CourseDetails() {
  return (
    <div>
      <h3>🎓 Course Details</h3>
      <p>Name: React for Beginners</p>
      <p>Instructor: Alex Johnson</p>
      <p>Duration: 6 weeks</p>
    </div>
  );
}

export default CourseDetails;
```

Output;

