

WEEK 7

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9.React JS - HOL

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

```
import ListOfPlayers from './ListOfPlayers';
```

```
import IndianPlayers from './IndianPlayers';
```

```
function App() {
```

```
  const flag = true; // Toggle between true/false to change the component
```

```
  return (
```

```
    <div className="App">
```

```
      <h1> Cricket App</h1>
```

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

```
    </div>
```

```
  );
```

```
}
```

```
export default App;
```

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

```
const ListOfPlayers = () => {
```

```
  const players = [
```

```
    { name: 'Virat Kohli', score: 95 },
```

```
    { name: 'Rohit Sharma', score: 88 },
```

```
    { name: 'KL Rahul', score: 67 },
```

```
    { name: 'Shubman Gill', score: 74 },
```

```
    { name: 'MS Dhoni', score: 60 },
```

```
    { name: 'Ravindra Jadeja', score: 76 },
```

```
    { name: 'Hardik Pandya', score: 68 },
```

```
    { name: 'Jasprit Bumrah', score: 85 },
```

```
    { name: 'Ravichandran Ashwin', score: 66 },
```

```
    { name: 'Yuzvendra Chahal', score: 45 },
```

```
    { name: 'Bhuvneshwar Kumar', score: 70 }]
```

```
  );
```

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

```
  return (
```

```
    <div>
```

```
      <h2> List of Players (Score ≥ 70)</h2>
```

```
      <ul>
```

```

        {filteredPlayers.map((player, index) => (
          <li key={index}>{player.name} - {player.score}</li>
        ))}
      </ul>
    </div>
  );
};

export default ListOfPlayers;

import React from 'react';

const IndianPlayers = () => {
  const players = ['Player1', 'Player2', 'Player3', 'Player4', 'Player5', 'Player6'];

  // Destructuring + Odd/Even grouping
  const oddPlayers = players.filter((_ , index) => index % 2 === 0);
  const evenPlayers = players.filter((_ , index) => index % 2 !== 0);

  // Merging Arrays
  const T20Players = ['Surya', 'Kishan', 'Samson'];
  const RanjiPlayers = ['Pujara', 'Rahane', 'Shaw'];
  const allPlayers = [...T20Players, ...RanjiPlayers]; // ES6 Spread operator

  return (
    <div>
      <h2> Odd Team Players</h2>
      <ul>{oddPlayers.map((p, i) => <li key={i}>{p}</li>)}</ul>

      <h2> Even Team Players</h2>
      <ul>{evenPlayers.map((p, i) => <li key={i}>{p}</li>)}</ul>

      <h2> All Players (Merged T20 + Ranji)</h2>
      <ul>{allPlayers.map((p, i) => <li key={i}>{p}</li>)}</ul>
    </div>
  );
};

export default IndianPlayers;

```

React App

Odd Players

- First : Sachin1
- Third : Virat3
- Fifth : Yuvraj5

Even Players

- Second : Dhoni2
- Fourth : Rohit4
- Sixth : Raina6

List of Indian Players Merged:

- Mr. First Player
- Mr. Second Player
- Mr. Third Player
- Mr. Fourth Player
- Mr. Fifth Player
- Mr. Sixth Player

React App

List of Players

- Mr. Jack 50
- Mr. Michael 70
- Mr. John 40
- Mr. Ann 61
- Mr. Elisabeth 61
- Mr. Sachin 95
- Mr. Dhoni 100
- Mr. Virat 84
- Mr. Jadeja 64
- Mr. Raina 75
- Mr. Rohit 80

List of Players having Scores Less than 70

- Mr. Jack 50
- Mr. John 40
- Mr. Ann 61
- Mr. Elisabeth 61
- Mr. Jadeja 64

10. React JS-HOL

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

```
function App() {
  const heading = <h1> Office Space Rental Listings</h1>;

  const officeImage = "https://via.placeholder.com/400x200?text=Office+Space";

  const office = {
    name: "TechPark Office",
    rent: 55000,
    address: "123 MG Road, Bangalore"
  };

  const officeList = [
    { name: "Startup Hub", rent: 45000, address: "Koramangala, Bangalore" },
    { name: "Corporate Tower", rent: 75000, address: "HSR Layout, Bangalore" },
    { name: "Co-Work Studio", rent: 62000, address: "Indiranagar, Bangalore" },
    { name: "Innovation Lab", rent: 58000, address: "Whitefield, Bangalore" }
```

```

];

const getRentStyle = (rent) => {
  return {
    color: rent >= 60000 ? "green" : "red",
    fontWeight: "bold"
  };
};

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

    <img src={officeImage} alt="Office space" style={{ width: '400px', margin: '10px 0' }} />

    <h2>Featured Office</h2>
    <p><strong>Name:</strong> {office.name}</p>
    <p><strong>Rent:</strong> <span
style={getRentStyle(office.rent)}>{office.rent}</span></p>
    <p><strong>Address:</strong> {office.address}</p>

    <h2>All Available Spaces</h2>
    <ul>
      {officeList.map((space, index) => (
        <li key={index} style={{ marginBottom: '10px' }}>
          <strong>{space.name}</strong><br />
          Rent: <span style={getRentStyle(space.rent)}>{space.rent}</span><br />
          Address: {space.address}
        </li>
      ))}
    </ul>
  </div>
);
}

export default App;

```

Office Space Rental Listings



Featured Office

Name: SkyView Tower

Rent: 75000

Address: MG Road, Bangalore

Available Offices

- Name: SkyView Tower

Rent: 75000

Address: MG Road, Bangalore

- Name: TechHub Plaza

Rent: 55000

Address: HSR Layout, Bangalore

- Name: GreenWorks

Rent: 60000

Address: Indiranagar, Bangalore

11.React JS - HOL

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

```
import CurrencyConvertor from './CurrencyConvertor';
```

```
class App extends Component {
```

```
  constructor() {
```

```
    super();
```

```
    this.state = {
```

```
      count: 0
```

```
    };
```

```
  }
```

```
  increment = () => {
```

```
    this.setState(prevState => ({ count: prevState.count + 1 }));
```

```
    this.sayHello(); // multiple methods
```

```
  };
```

```
  decrement = () => {
```

```
    this.setState(prevState => ({ count: prevState.count - 1 }));
```

```
  };
```

```
  sayHello = () => {
```

```
    console.log("Hello! Welcome to the Event Example App.");
```

```
  };
```

```
  sayWelcome = (message) => {
```

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

```
  };
```

```
  handleClick = (e) => {
```

```
    console.log("Synthetic Event:", e);
```

```
    alert("I was clicked");
```

```
  };
```

```

render() {
  return (
    <div style={{ padding: '20px' }}>
      <h1> React Event Examples</h1>

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

      <hr />

      <button onClick={() => this.sayWelcome("Welcome to React Event Lab!")}>
        Say Welcome
      </button>

      <hr />

      <button onClick={this.handleClick}>
        Synthetic Event Example
      </button>

      <hr />

      <CurrencyConvertor />
    </div>
  );
}
}

export default App;

import React, { useState } from 'react';

const CurrencyConvertor = () => {
  const [rupees, setRupees] = useState("");
  const [euro, setEuro] = useState(null);

  const handleSubmit = (e) => {
    e.preventDefault(); // prevent page reload (synthetic event)
    const conversionRate = 0.011; // Example: 1 INR = 0.011 EUR
    const converted = parseFloat(rupees) * conversionRate;
    setEuro(converted.toFixed(2));
  };

  return (
    <div>
      <h2> Currency Convertor</h2>

```

```

<form onSubmit={handleSubmit}>
  <input
    type="number"
    placeholder="Enter amount in INR"
    value={rupees}
    onChange={(e) => setRupees(e.target.value)}
  />
  <button type="submit">Convert</button>
</form>

{euro && (
  <p>
    EUR: <strong>{euro}</strong>
  </p>
)}
</div>
);
};

export default CurrencyConvertor;

```

React Event Handling Example

Counter: 0

Increment Decrement

Say Welcome Synthetic OnPress

Currency Converter (INR → EUR)

Amount in ₹ INR: 45 Convert

🇪🇺 Euros: 0.51

12.React JS - HOL

import React from 'react';

```

const GuestPage = () => {
  return (
    <div>
      <h2>Welcome, Guest </h2>
      <p>Please log in to book tickets.</p>
      <h3>Available Flights</h3>
      <ul>
        <li>Flight AI202 - Delhi to Mumbai</li>
        <li>Flight AI404 - Bangalore to Chennai</li>
        <li>Flight AI808 - Hyderabad to Pune</li>
      </ul>
    </div>
  )
}

```

```
    </div>
  );
};

export default GuestPage;

import React from 'react';

const UserPage = () => {
  return (
    <div>
      <h2>Welcome Back, User </h2>
      <p>You can now book your flight tickets!</p>
      <h3>Available Flights</h3>
      <ul>
        <li>
          Flight AI202 - Delhi to Mumbai <button>Book</button>
        </li>
        <li>
          Flight AI404 - Bangalore to Chennai <button>Book</button>
        </li>
        <li>
          Flight AI808 - Hyderabad to Pune <button>Book</button>
        </li>
      </ul>
    </div>
  );
};
```

```
export default UserPage;
```

Ticket Booking App

Login

Welcome, Guest!

Ticket Booking App

[Logout](#)

Welcome, User!

13. React JS - HOL

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

```
function App() {
  const [view, setView] = useState("book");
```

```
  // Element variable way
```

```
  let content;
```

```
  if (view === "book") content = <BookDetails />;
```

```
  else if (view === "blog") content = <BlogDetails />;
```

```
  else content = <CourseDetails />;
```

```
  return (
```

```
    <div className="App" style={{ padding: '20px' }}>
```

```
      <h1> Blogger App</h1>
```

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

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

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

```
    <hr />
```

```
    { /* Render using element variable */ }
```

```
    {content}
```

```
    { /* Also showing one more method using ternary */ }
```

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

```
      <h3>Another Way: Ternary Conditional</h3>
```

```

    {view === "book" ? <BookDetails /> : view === "blog" ? <BlogDetails /> :
    <CourseDetails />}
  </div>

```

```

    {/* And using short-circuit AND */}
    {view === "course" && (
      <div>
        <h3>Also Showing Course Below Using &&</h3>
        <CourseDetails />
      </div>
    )}
  </div>
);
}

```

```
export default App;
```

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

```

const books = [
  { id: 1, title: 'React Basics', author: 'Dan Abramov' },
  { id: 2, title: 'JavaScript Deep Dive', author: 'Kyle Simpson' },
  { id: 3, title: 'Learning ES6', author: 'Nicholas C. Zakas' }
];

```

```

const BookDetails = () => {
  return (
    <div>
      <h2> Book Details</h2>
      <ul>
        {books.map(book => (
          <li key={book.id}>
            <strong>{book.title}</strong> - {book.author}
          </li>
        ))}
      </ul>
    </div>
  );
};

```

```
export default BookDetails;
```

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

```

const blogs = [
  { id: 'a1', title: 'Why React?', author: 'Alice' },
  { id: 'a2', title: 'React vs Vue', author: 'Bob' },
  { id: 'a3', title: 'Using Hooks Effectively', author: 'Charlie' }
]

```

```
];
```

```
const BlogItem = ({ blog }) => (  
  <li>  
    <strong>{blog.title}</strong> by {blog.author}  
  </li>  
)
```

```
const BlogDetails = () => {  
  return (  
    <div>  
      <h2>📖 Blog Details</h2>  
      <ul>  
        {blogs.map(blog => (  
          <BlogItem key={blog.id} blog={blog} />  
        ))}  
      </ul>  
    </div>  
  );  
};
```

```
export default BlogDetails;
```

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

```
const courses = [  
  { code: 'RE101', name: 'React for Beginners', duration: '3 weeks' },  
  { code: 'JS201', name: 'Advanced JavaScript', duration: '4 weeks' },  
  { code: 'WEB301', name: 'Full Stack Web Dev', duration: '6 weeks' }  
];
```

```
const CourseDetails = () => {  
  return (  
    <div>  
      <h2> Course Details</h2>  
      <table border="1" cellPadding="8">  
        <thead>  
          <tr>  
            <th>Code</th>  
            <th>Name</th>  
            <th>Duration</th>  
          </tr>  
        </thead>  
        <tbody>  
          {courses.map(course => (  
            <tr key={course.code}>  
              <td>{course.code}</td>  
              <td>{course.name}</td>
```

```
        <td>{course.duration}</td>
      </tr>
    )}
  </tbody>
</table>
</div>
);
};
```

```
export default CourseDetails;
```

React App

Course Details

Angular

4/5/2021

React

6/3/20201

Book Details

Master React

670

Deep Dive into Angular 11

800

Mongo Essentials

450

Blog Details

React Learning

Stephen Biz

Welcome to learning React!

Installation

Schewzdenier

You can install React from npm.