

## WEEK 7

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# React

## Exercise 9

### App.java:

```
import React from "react"; import ListofPlayers from  
"./components/ListofPlayers"; import Scorebelow70 from  
"./components/Scorebelow70"; import OddPlayers from  
"./components/OddPlayers"; import EvenPlayers from  
"./components/EvenPlayers"; import ListofIndianPlayers from  
"./components>ListofIndianPlayers"; function App() { const players  
= [  
  { name: "Kohli", score: 92 },  
  { name: "Dhoni", score: 88 },  
  { name: "Rohit", score: 45 },  
  { name: "Pant", score: 62 },  
  { name: "Bumrah", score: 33 },  
  { name: "Hardik", score: 75 },  
  { name: "Surya", score: 95 },  
  { name: "KL Rahul", score: 60 },  
  { name: "Shreyas", score: 80 },  
  { name: "Ashwin", score: 71 },  
  { name: "Siraj", score: 68 },  
];  
const T20Players = ['First Player', 'Second Player', 'Third Player']; const  
RanjiTrophyPlayers = ['Fourth Player', 'Fifth Player', 'Sixth Player']; const  
IndianPlayers = [...T20Players, ...RanjiTrophyPlayers];
```

```

const flag = false;
if (flag === true) {
  return (
    <div>
      <h1>List of Players</h1>
      <ListofPlayers players={players} />
      <hr />
      <h1>List of Players with Score &lt; 70</h1>
      <Scorebelow70 players={players} />
    </div>
  );
} else {
  return (
    <div>
      <h1>Indian Team</h1>
      <OddPlayers players={IndianPlayers} />
      <EvenPlayers players={IndianPlayers} />
      <hr />
      <h1>Merged List of Indian Players:</h1>
      <ListofIndianPlayers IndianPlayers={IndianPlayers} />
    </div>
  );
}
} } export default
App;

```

```

EvenPlayers.java import React from "react"; export default
function EvenPlayers({ players }) { const evenPlayers =
  players.filter((_, index) => index % 2 === 0); return (
    <div>
      <h2>Even Indexed Players</h2>

```

```
<ul>
  {evenPlayers.map((player, index) => (
    <li key={index}>{player}</li>
  )));
</ul>
</div>
);
}
```

**OddPlayers.java**

```
import React from "react";
export default function OddPlayers({ players }) {
  const oddPlayers = players.filter((_, index) => index % 2 !== 0);
  return (
    <div>
      <h2>Odd Indexed Players</h2>
      <ul>
        {oddPlayers.map((player, index) => (
          <li key={index}>{player}</li>
        )));
      </ul>
    </div>
  );
}
```

**ListofIndianPlayers.java**

```
import React from "react";
export default function ListofIndianPlayers({
  IndianPlayers
}) {
  return (
    <ul>
      {IndianPlayers.map((player, index) => (
        <li key={index}>{player}</li>
      )));
  );
}
```

```
</ul>
);
}

ListofPlayers.js import React from "react"; export default function ListofPlayers({ players }) {
return (
<div>
{players.map((item, index) => (
<div key={index}>
<li>
Mr. {item.name} <span> {item.score} </span>
</li>
</div>
))}

</div>
);
}
```

```
Scorebelow70.java import React from "react";
export default function Scorebelow70({ players }) {
const players70 = []; players.map((item) => {
if (item.score <= 70) {

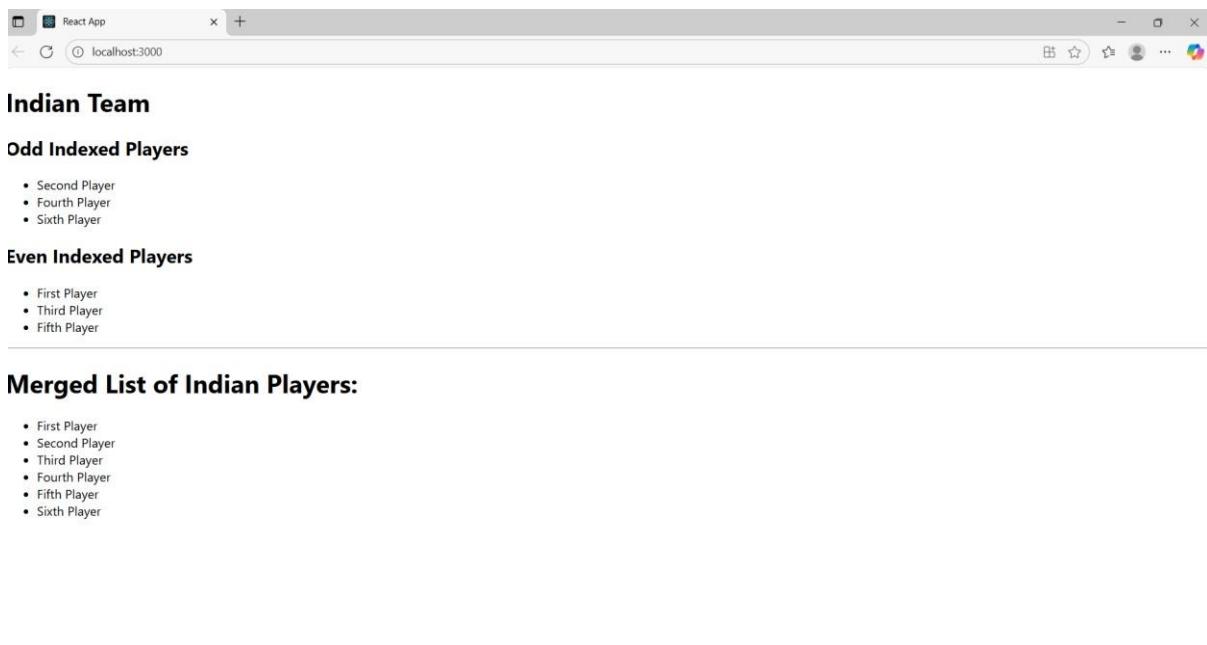
players70.push(item);

}
});

return (
<div>
{players70.map((item, index) => (
<li key={index}>
{item.name} - {item.score}
</li>
)))
})}
```

```
</div>
);
}
```

### Output:



## Exercise 10

### App.java

```
import React from "react"; import
"./App.css"; function App() { const
singleOffice = { name: "Tech Park
Suite", rent: 55000, address:
"123 IT Highway, Chennai",
image:"./image.png",
```

```
};

const officeList = [
  {
    name: "Innovate Hub",    rent: 45000,
    address: "Downtown Business Center, Bengaluru",
    image:"./image.png",
  },
  {
    name: "Startup Space",   rent:
65000,    address: "Tech Valley,
Hyderabad",    image:
  "./image.png",
  },
  {
    name: "Prime Corporate",
    rent: 70000,
    address: "Cyber City,
Gurugram",    image:
  "./image.png",
  },
];
return (
<div className="App">
  <h1>Office Space Rental App</h1>
  <div className="office-card">
    <h2>{singleOffice.name}</h2>
    <img src={singleOffice.image} alt={singleOffice.name} width="300" />
    <p>Address: {singleOffice.address}</p>
    <p
      style={{ color: singleOffice.rent < 60000 ? "red" : "green" }}
    >
```

```

    Rent: ₹{singleOffice.rent}

  </p>
</div>
<hr />

<h2>Available Office Spaces</h2>
<div className="office-list">
  {officeList.map((office, index) => (
    <div key={index} className="office-card">
      <h3>{office.name}</h3>
      <img src={office.image} alt={office.name} width="300" />
      <p>Address: {office.address}</p>
      <p style={{ color: office.rent < 60000 ? "red" : "green" }}>
        Rent: ₹{office.rent}
      </p>
    </div>
  )));
</div>
</div>
);

}

export default App;

```

### App.css

```

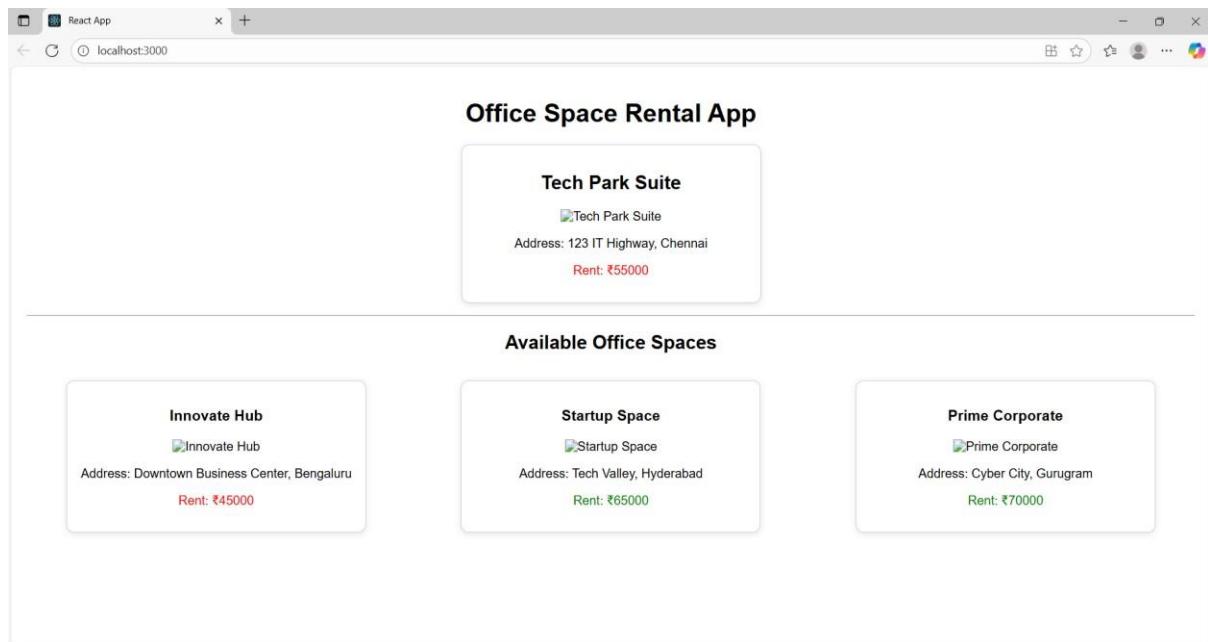
.App {
  text-align: center;
  font-family: Arial, sans-serif;
  padding: 20px;
}

.office-card {
  border: 1px solid #ccc;
  border-radius: 10px;
  padding: 15px;
  margin: 15px auto;
  width: 350px;
  box-shadow: 0 2px 8px rgba(0, 0, 0, 0.1);
}

```

```
.office-list { display:  
flex; justify-content:  
center; flex-wrap:  
wrap; gap: 20px;  
}
```

## Output:



**Exercise 11: App.js**

```
import React from "react";  
import Counter from  
"./components/Counter";  
import WelcomeButton from  
"./components/WelcomeButton";  
import ClickMessage from  
"./components/ClickMessage";  
import CurrencyConvertor from  
"./components/CurrencyConvertor";  
function App() {  
  return (  
    <div>  
      <h1>Event Examples App</h1>  
      <Counter />  
      <WelcomeButton />  
      <ClickMessage />  
      <CurrencyConvertor />  
    </div>  
  );  
}  
export default App;
```

```
export default App;

Counter.js import React, { useState }
from "react"; export default function
Counter() { const [count, setCount] =
useState(0); const sayHello = () => {
console.log("Hello! Keep clicking..."); }

const handleIncrement = () => {
setCount(count + 1); sayHello(); }

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

return (
<div>
<h2>Counter: {count}</h2>
<button onClick={handleIncrement}>Increment</button>
<button onClick={handleDecrement}>Decrement</button>
</div>
);

}

WelcomeButton.js import React from
"react"; export default function
WelcomeButton() { const showWelcome
= (message) => { alert(message); }

return (
<div>
<button onClick={() => showWelcome("Welcome!")}>Say Welcome</button>
</div>
);
```

```

}

ClickMessage.js import React from
"react"; export default function
ClickMessage() { const handleClick =
(event)=> { alert("I was clicked");
};

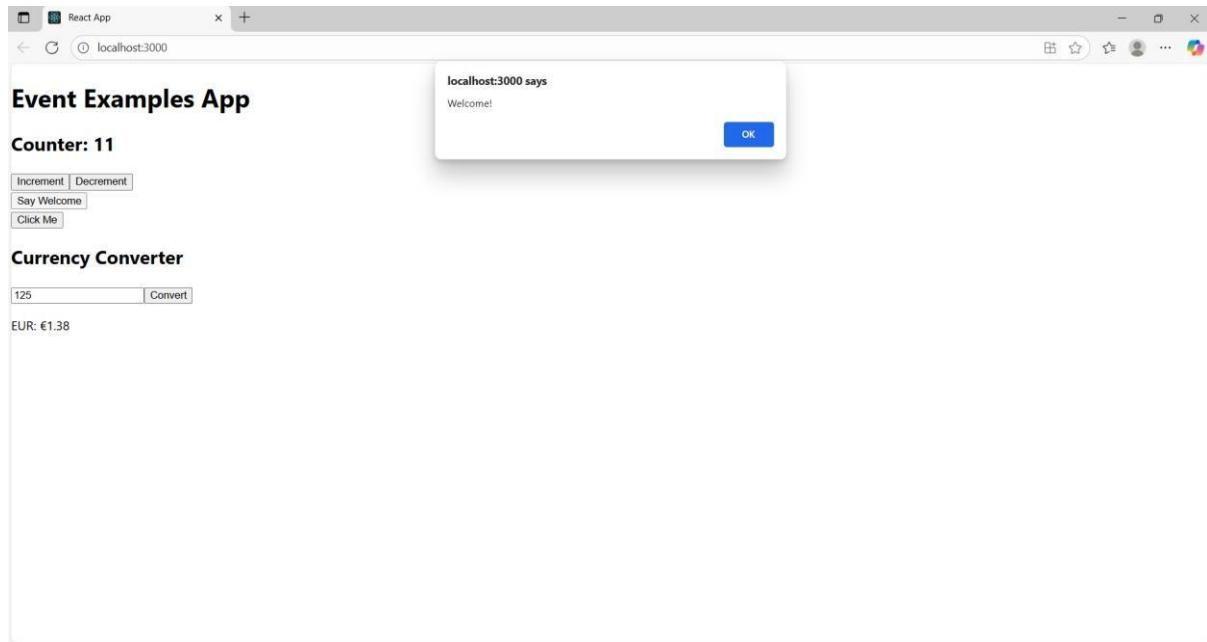
return <button onClick={handleClick}>Click Me</button>;
}

CurrencyConvertor.js import React, { useState }
from "react"; export default function
CurrencyConvertor() { const [rupees, setRupees]
= useState(""); const [euros, setEuros] =
useState(""); const handleSubmit = ()=> {
const rate = 0.011; // example rate
setEuros((parseFloat(rupees) * rate).toFixed(2));
};

return (
<div>
<h2>Currency Converter</h2>
<input type="number"
value={rupees} onChange={(e)=>
setRupees(e.target.value)}
placeholder="Enter INR"
/>
<button onClick={handleSubmit}>Convert</button>
{euros && <p>EUR: €{euros}</p>}
</div>
);
}

```

**Output:**



**Exercise 12: App.js**

```
import React, { useState } from
'react';
import GuestPage from
'./components/GuestPage';
import UserPage from
'./components/UserPage';
import LoginControl from
'./components/LoginControl';

function App() {
  const [isLoggedIn, setIsLoggedIn] = useState(false);
  const handleLogin = () => setIsLoggedIn(true);
  const handleLogout = () => setIsLoggedIn(false);
  return (
    <div>
      <h1>Ticket Booking App</h1>
      <LoginControl isLoggedIn={isLoggedIn} onLogin={handleLogin} onLogout={handleLogout} />
      {isLoggedIn ? <UserPage /> : <GuestPage />}
    </div>
  );
}

export default App;
```

**LoginControl.js**

```
import React from 'react';
export default function LoginControl({ isLoggedIn, onLogin, onLogout }) {
  return (
    <div>
      {isLoggedIn ? (
        <div>
          <h2>Welcome!</h2>
          <button onClick={onLogout}>Logout</button>
        </div>
      ) : (
        <div>
          <h2>Please Log In</h2>
          <button onClick={onLogin}>Login</button>
        </div>
      )}
    </div>
  );
}
```

```
<button onClick={onLogout}>Logout</button>
) : (
  <button onClick={onLogin}>Login</button>
)
</div>
);
}
```

### **GuestPage.js** import React from

```
'react'; export default function
```

```
GuestPage() { return (
  <div>
    <h2>Welcome Guest! </h2>
    <p>Here are the available flights:</p>
    <ul>
      <li>Chennai to Delhi - ₹4500</li>
      <li>Mumbai to Bangalore - ₹3500</li>
      <li>Kolkata to Hyderabad - ₹4000</li>
    </ul>
    <p> Please login to book tickets.</p>
  </div>
);
}
```

### **UserPage.js** import React from

```
'react'; export default function
```

```
UserPage() { return (
  <div>
    <h2>Welcome User! </h2>
    <p>You can now book your tickets:</p>
    <ul>
```

```

<li> Chennai to Delhi - ₹4500 <button>Book</button></li>
<li> Mumbai to Bangalore - ₹3500 <button>Book</button></li>
<li>Kolkata to Hyderabad - ₹4000 <button>Book</button></li>
</ul>
</div>
);
}

```

### Output:

**Ticket Booking App**

[Login](#)

**Welcome Guest!**

Here are the available flights:

- Chennai to Delhi - ₹4500
- Mumbai to Bangalore - ₹3500
- Kolkata to Hyderabad - ₹4000

Please login to book tickets.

**Ticket Booking App**

[Logout](#)

**Welcome User!**

You can now book your tickets:

- Chennai to Delhi - ₹4500 [Book](#)
- Mumbai to Bangalore - ₹3500 [Book](#)
- Kolkata to Hyderabad - ₹4000 [Book](#)

```
Exercise 13 App.js
import React, { useState } from
"react"; import BookDetails from
"./components/BookDetails"; import BlogDetails from
"./components/BlogDetails"; import CourseDetails from
"./components/CourseDetails"; function App() {
  const
  [view, setView] = useState("books"); return (
    <div>
      <h1>Blogger App</h1>
      <button onClick={() => setView("books")}>Show Books</button>
      <button onClick={() => setView("blogs")}>Show Blogs</button>
      <button onClick={() => setView("courses")}>Show Courses</button>
      {view === "books" && <BookDetails />}
      {view === "blogs" && <BlogDetails />}
    </div>
  );
}

export default App;
```

```

{view === "courses" && <CourseDetails />}
</div>
);
}

} export default App;

BlogDetails.js import
React from 'react';

function BookDetails() {
const books = [
{ id: 1, title: 'The Alchemist', author: 'Paulo Coelho', rating: 85 },
{ id: 2, title: 'Atomic Habits', author: 'James Clear', rating: 92 },
{ id: 3, title: 'The Subtle Art of Not Giving a F*ck', author: 'Mark Manson', rating: 68 },
{ id: 4, title: 'Think and Grow Rich', author: 'Napoleon Hill', rating: 55 },
];
const lowScoreBooks = books.filter(book => book.rating < 70);
const indianBooks = [
{ id: 5, title: 'Wings of Fire', author: 'A.P.J. Abdul Kalam' },
{ id: 6, title: 'The Guide', author: 'R.K. Narayan' },
];
const allBooks = [...books, ...indianBooks];
return (
<div>
<h2>All Books</h2>
<ul>
{allBooks.map(book => (
<li key={book.id}>
{book.title} by {book.author}
</li>
)))
</ul>
<h2>Books with Rating < 70</h2>
<ul>
{lowScoreBooks.map(book => (

```

```
<li key={book.id}>
  {book.title} by {book.author} — Rating: {book.rating}
</li>
)}
</ul>
</div>
);
}

} export default BookDetails;
```

### **BookDetails.js** function

```
BookDetails() { return <h2>Book  
Details Page</h2>;
```

```
} export default
```

```
BookDetails;
```

### **CourseDetails.js** import

```
React from 'react'; function
```

```
CourseDetails() { const
```

```
courses = [
```

```
  { id: 1, name: "Frontend Development", duration: "6 weeks" },
  { id: 2, name: "Data Structures in Java", duration: "8 weeks" },
```

```
];
```

```
return (
```

```
  <div>
```

```
    <h2>Course Details</h2>
```

```
    <table border="1" cellPadding="8">
```

```
      <thead>
```

```
        <tr>
```

```
          <th>Course Name</th>
```

```
          <th>Duration</th>
```

```
        </tr>
```

```
      </thead>
```

```
      <tbody>
```

```
        {courses.map((course) => (
```

```
<tr key={course.id}>
  <td>{course.name}</td>
  <td>{course.duration}</td>
</tr>
))}

</tbody>
</table>
</div>

);

} export default
```

CourseDetails; **Output:**

The screenshot shows a web browser window titled "React App" with the URL "localhost:3000". The main content area is titled "Blogger App". Below it are three buttons: "Show Books" (highlighted in red), "Show Blogs", and "Show Courses".

### All Books

- The Alchemist by Paulo Coelho
- Atomic Habits by James Clear
- The Subtle Art of Not Giving a F\*ck by Mark Manson
- Think and Grow Rich by Napoleon Hill
- Wings of Fire by A.P.J. Abdul Kalam
- The Guide by R.K. Narayan

### Books with Rating < 70

- The Subtle Art of Not Giving a F\*ck by Mark Manson — Rating: 68
- Think and Grow Rich by Napoleon Hill — Rating: 55

The screenshot shows a web browser window titled "React App" with the URL "localhost:3000". The main content area is titled "Blogger App". Below it are three buttons: "Show Books", "Show Blogs" (highlighted in red), and "Show Courses".

### Course Details

Course Name	Duration
Frontend Development	6 weeks
Data Structures in Java	8 weeks