

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:

Indian Team

Odd Indexed Players

- Second Player
- Fourth Player
- Sixth Player

Even Indexed Players

- First Player
- Third Player
- Fifth Player

Merged List of Indian Players:

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

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,
    }
  ];
  return (
    <div>
      <h1>Office Listings</h1>
      <table border="1">
        <thead>
          <tr>
            <th>Office Name</th>
            <th>Address</th>
            <th>Rent (INR)</th>
          </tr>
        </thead>
        <tbody>
          <tr>
            <td>Tech Park Suite</td>
            <td>123 IT Highway, Chennai</td>
            <td>55000</td>
          </tr>
          <tr>
            <td>Innovate Hub</td>
            <td>Downtown Business Center, Bengaluru</td>
            <td>45000</td>
          </tr>
          <tr>
            <td>Startup Space</td>
            <td>Tech Valley, Hyderabad</td>
            <td>65000</td>
          </tr>
          <tr>
            <td>Prime Corporate</td>
            <td></td>
            <td>70000</td>
          </tr>
        </tbody>
      </table>
    </div>
  );
}

export default App;
```

```
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>
</div>
);
}

export default App;
```

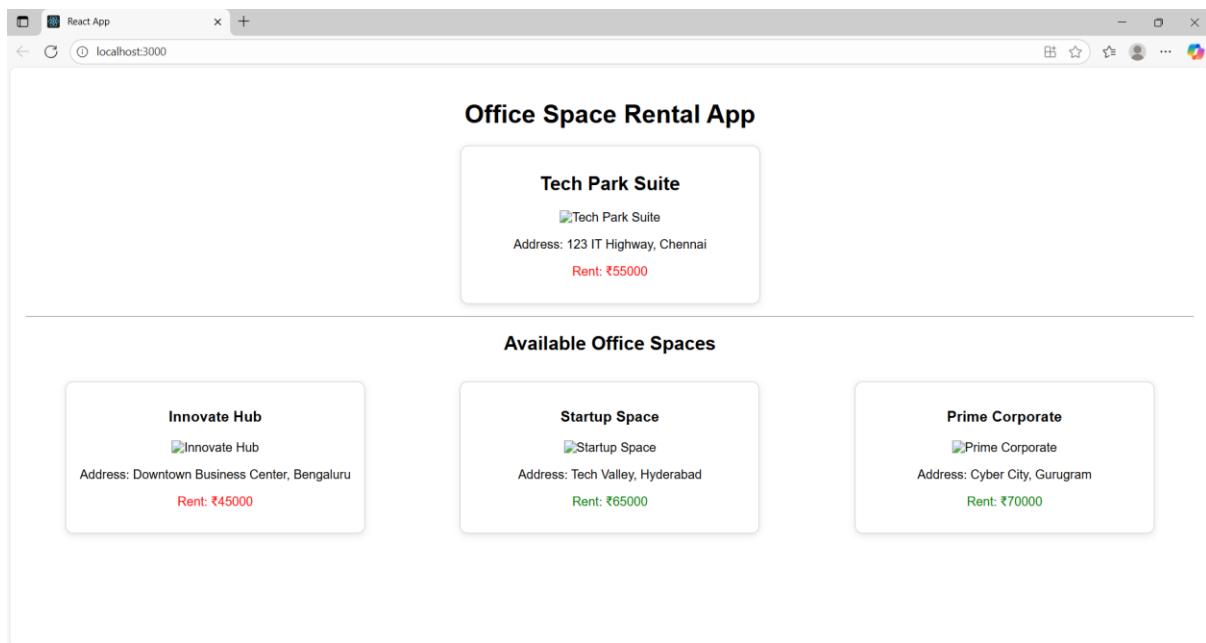
App.css

```
.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;
```

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

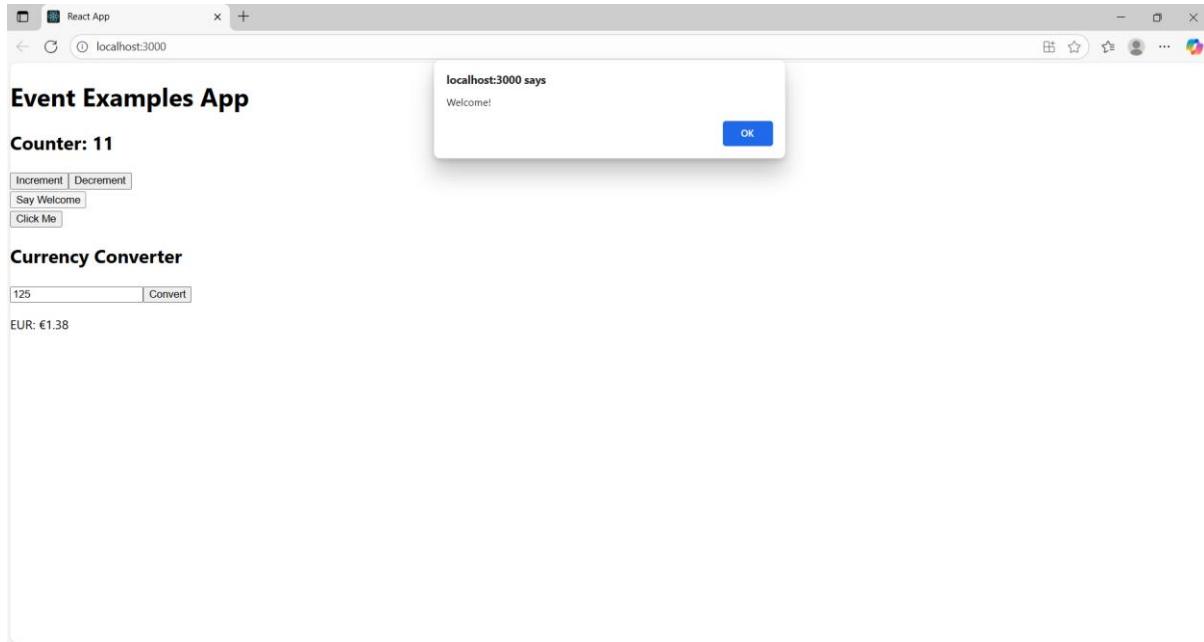
```
import React from "react";  
  
export default function ClickMessage() {  
  const handleClick = (event) => {  
    alert("I was clicked");  
  };  
  
  return <button onClick={handleClick}>Click Me</button>;  
}
```

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

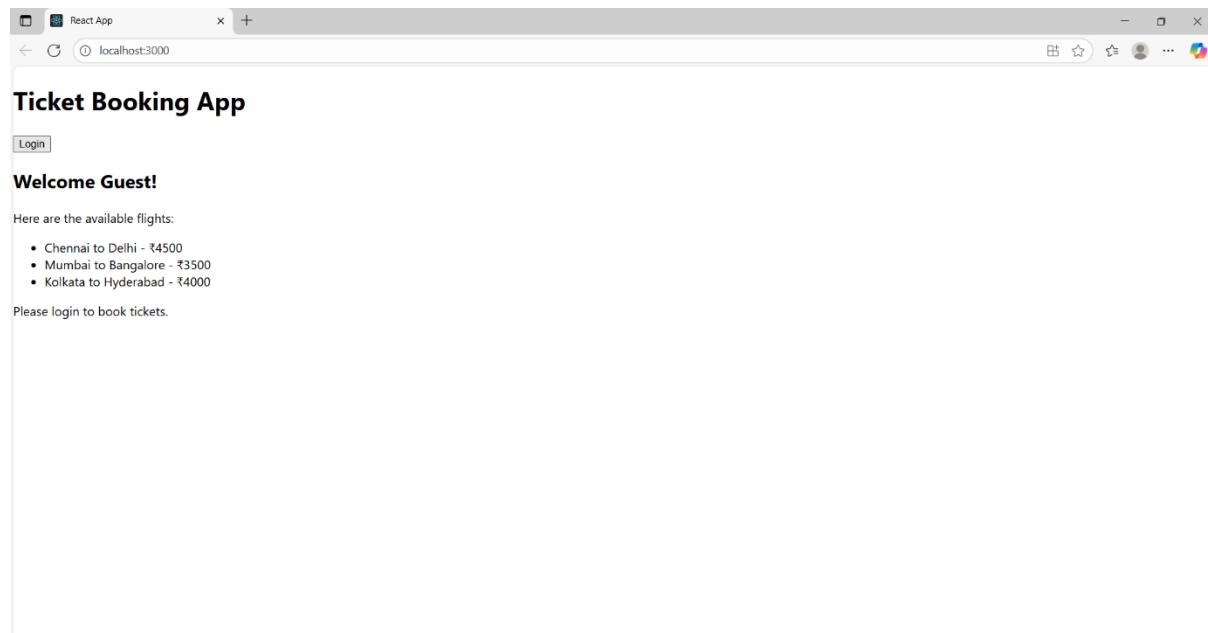
GuestPage.js

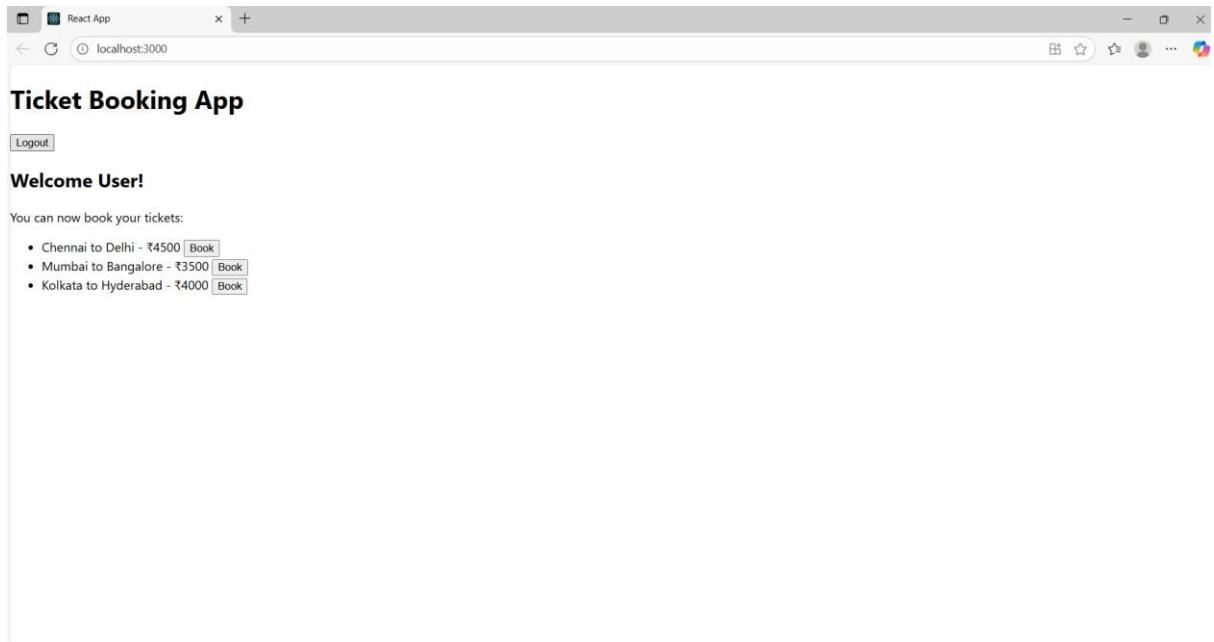
```
import React from 'react';
export default function GuestPage() {
  return (
    <div>
      <h2>Welcome Guest! </h2>
      <p>Here are the available flights:</p>
      <ul>
        <li>Chennai to Delhi - ₹4500</li>
        <li>Mumbai to Bangalore - ₹3500</li>
        <li>Kolkata to Hyderabad - ₹4000</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:





[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 />}
      {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" and contains a heading "All Books". Below it is a list of 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

The screenshot shows a web browser window titled "React App" with the URL "localhost:3000". The main content area is titled "Blogger App" and contains a heading "Course Details". Below it is a table:

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