

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 },
  ];
  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>
  );
}
```

```
)})  
</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

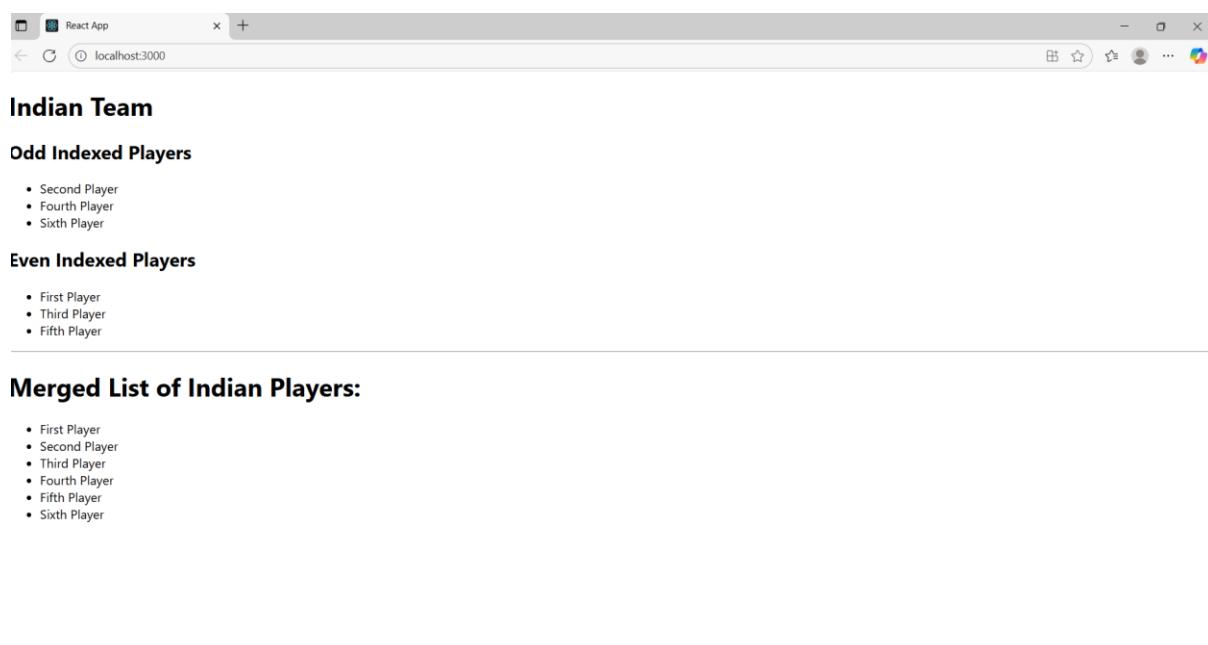
```
import React from "react";  
  
export default function Scorebelow70({ players }) {  
  const players70 = [];  
  players.map((item) => {  
    if (item.score <= 70) {  
      players70.push(item);  
    }  
  });  
  return (  
    <div>
```

```
{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",
    rent: 58000,
    address: "123 IT Highway, Chennai",
    image:"./image.png",
  };
  const officeList = [
    {
      name: "Innovate Hub",
      rent: 45000,
      address: "Downtown Business Center, Bengaluru",
      image:"./image.png",
    },
    {
      name: "Prime",
      rent: 7000,
      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" />
      </div>
    </div>
  );
}

export default App;
```

```

<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

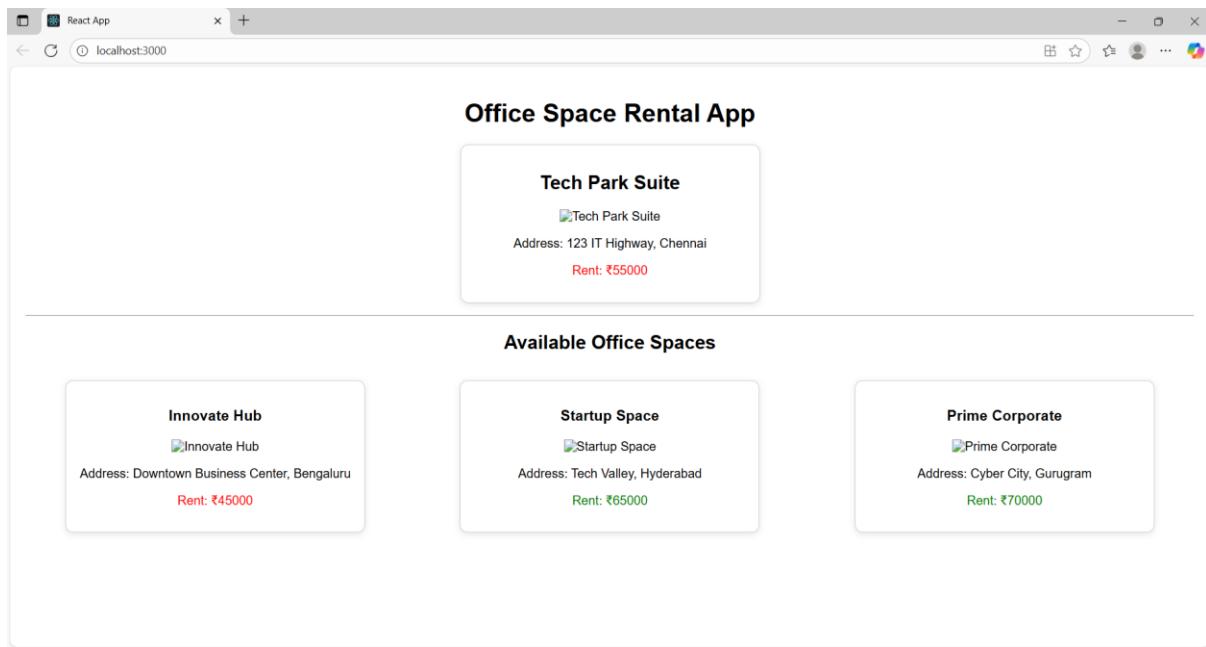
```

.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;
```

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>
  );
}
```

```
}
```

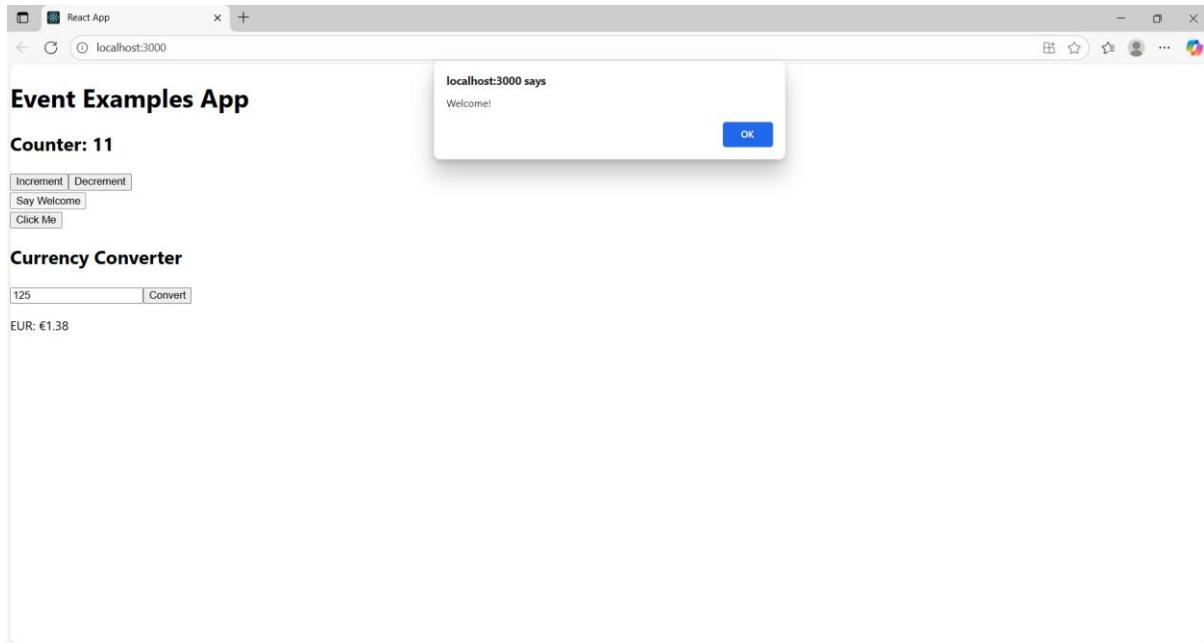
ClickMessage.js

```
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>
      </ul>
      <p> Please login to book tickets.</p>
    </div>
  );
}

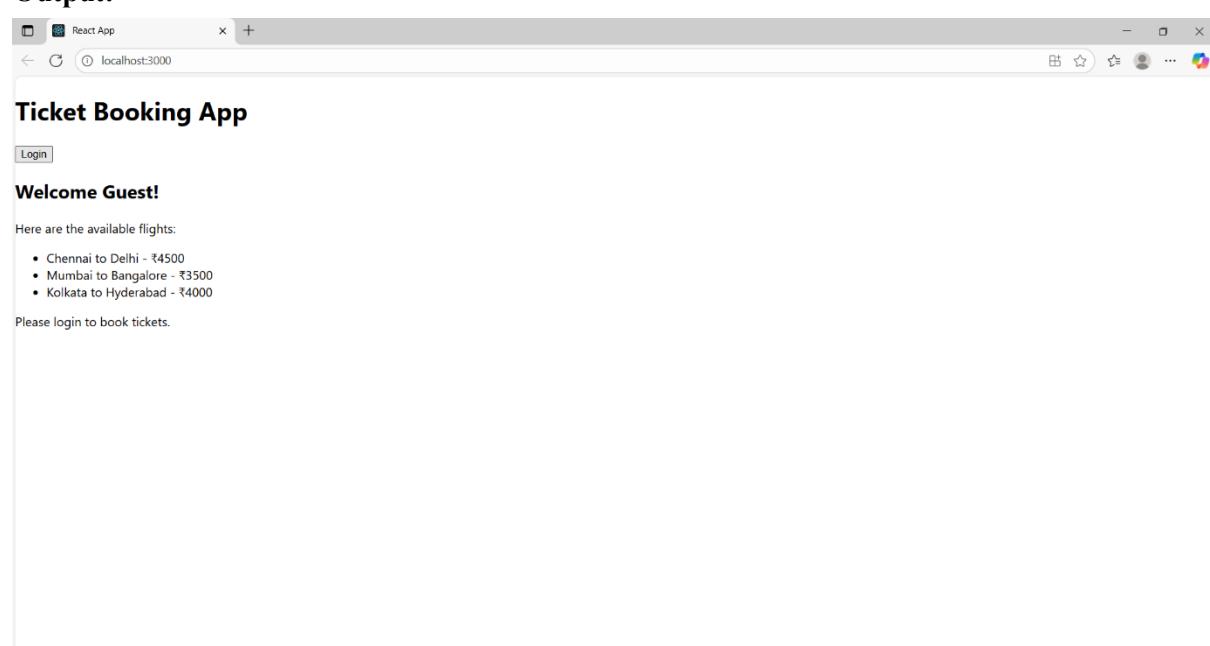
}
```

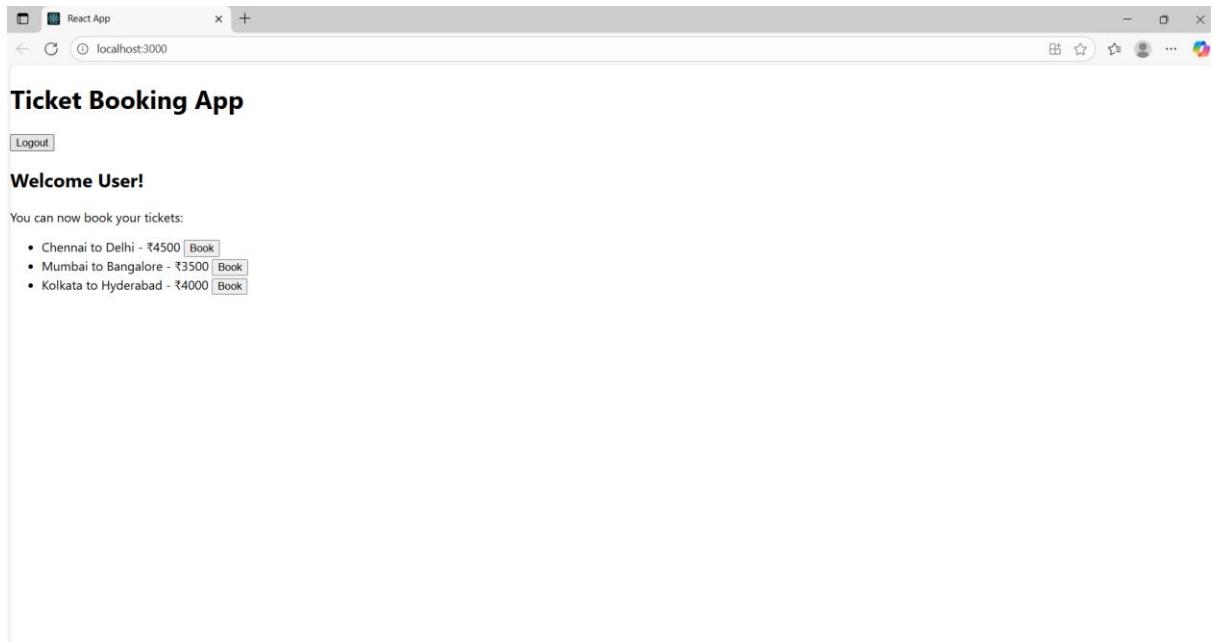
UserPage.js

```
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>
      </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 },
  ];
  const lowScoreBooks = books.filter(book => book.rating < 70);
  const indianBooks = [
    { id: 5, title: 'Wings of Fire', author: 'A.P.J. Abdul Kalam' }
  ];
}
```

```

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:



Blogger App

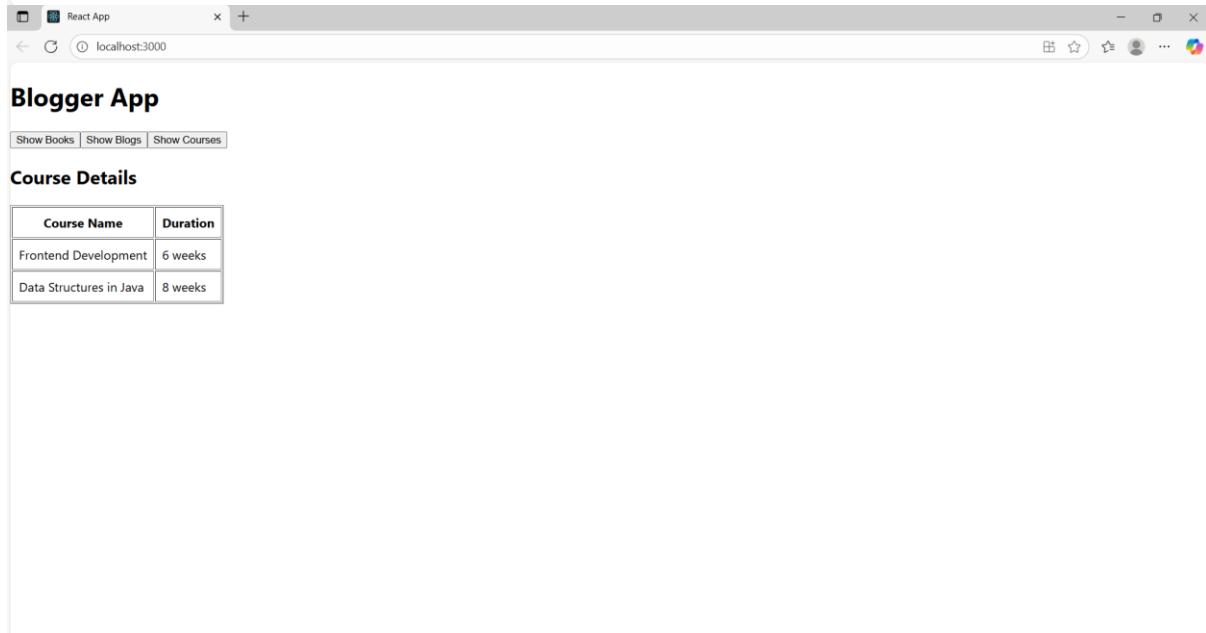
Show Books Show Blogs Show Courses

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



Blogger App

Show Books Show Blogs Show Courses

Course Details

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