

Case Study 2 (E-Learning Platform)

App.js

```
import React from "react";
import CourseList from "../components/CourseList";

function App() {
  return (
    <div style={{ padding: "20px" }}>
      <h1>🎓 E-Learning Platform</h1>
      <CourseList />
    </div>
  );
}

export default App;
```

CourseList.js

```
import React, { useState } from "react";
import CourseCard from "../CourseCard";

const coursesData = [
  { id: 1, title: "React Basics", author: "John Doe", duration: "3h", progress: 0 },
  { id: 2, title: "JavaScript Advanced", author: "Jane Smith", duration: "5h", progress: 0 },
  { id: 3, title: "Node.js Essentials", author: "Mark Wilson", duration: "4h", progress: 0 }
```

```
];
```

```
function CourseList() {  
  const [enrolledCourses, setEnrolledCourses] = useState([]);  
  
  const handleEnroll = (courseId) => {  
    if (!enrolledCourses.includes(courseId)) {  
      setEnrolledCourses([...enrolledCourses, courseId]);  
    }  
  };  
};
```

```
return (  
  <div>  
    {coursesData.map((course) => (  
      <CourseCard  
        key={course.id}  
        course={course}  
        isEnrolled={enrolledCourses.includes(course.id)}  
        onEnroll={() => handleEnroll(course.id)}  
      />  
    ))}  
  </div>  
);  
}
```

```
export default CourseList;
```

CourseCard.js

```
import React from "react";
import ProgressBar from "../ProgressBar";

function CourseCard({ course, isEnrolled, onEnroll }) {
  return (
    <div style={{ border: "1px solid #ccc", padding: "15px", margin: "10px", borderRadius:
"8px" }}>
      <h3>{course.title}</h3>
      <p> {course.author}</p>
      <p> {course.duration}</p>

      {isEnrolled ? (
        <>
          <button disabled style={{ background: "gray", color: "white", padding: "5px" }}>
            Already Enrolled
          </button>
          <ProgressBar progress={course.progress} />
        </>
      ) : (
        <button onClick={onEnroll} style={{ background: "green", color: "white", padding:
"5px" }}>
          Enroll
        </button>
      )}
    </div>
  );
}
```

```
export default CourseCard;
```

ProgressBar.js

```
import React from "react";

function ProgressBar({ progress }) {
  return (
    <div style={{ marginTop: "10px" }}>
      <div
        style={{
          height: "10px",
          width: "100%",
          backgroundColor: "#e0e0e0",
          borderRadius: "5px"
        }}
      >
        <div
          style={{
            height: "10px",
            width: `${progress}%`,
            backgroundColor: "blue",
            borderRadius: "5px"
          }}
        />
      </div>
      <small>{progress}% Completed</small>
    </div>
  );
}
```

```
);  
}
```

```
export default ProgressBar;
```
