

Task 1: Create a `Movie` Component (Title, Year, Rating)

src/Movie.js

```
import React from "react";

function Movie({ title, year, rating }) {
  return (
    <div>
      <h2>{title}</h2>
      <p>Year: {year}</p>
      <p>Rating: {rating}</p>
    </div>
  );
}

export default Movie;
```

Task 2: Add Default Prop for Rating ("Not Rated")

Updated src/Movie.js

```
import React from "react";

function Movie({ title, year, rating = "Not Rated" }) {
  return (
    <div>
      <h2>{title}</h2>
      <p>Year: {year}</p>
      <p>Rating: {rating}</p>
    </div>
  );
}

export default Movie;
```

Task 3: Create a `Button` Component with a Label Prop

src/Button.js

```
import React from "react";

function Button({ label }) {
  return <button>{label}</button>;
}

export default Button;
```

Task 4: Create `UserProfile` (Passing Object as Props)

src/UserProfile.js

```
import React from "react";

function UserProfile({ user }) {
  return (
    <div>
      <h2>User Profile</h2>
      <p>Name: {user.name}</p>
      <p>Age: {user.age}</p>
      <p>Email: {user.email}</p>
    </div>
  );
}

export default UserProfile;
```

Task 5: Create a `Modal` Component (Title & Content Props)

src/Modal.js

```
import React from "react";

function Modal({ title, content }) {
  return (
    <div style={{ border: "2px solid black", padding: "10px", margin: "10px" }}>
      <h2>{title}</h2>
      <p>{content}</p>
    </div>
  );
}

export default Modal;
```

Step 6: Combine Everything in `App.js`

src/App.js

```
import React from "react";
import Movie from "./Movie";
import Button from "./Button";
import UserProfile from "./UserProfile";
import Modal from "./Modal";

function App() {
  const userDetails = {
    name: "John Doe",
    age: 25,
    email: "john.doe@example.com"
  };

  return (
    <div>
      <Movie title="Inception" year="2010" rating="8.8" />
      <Movie title="Interstellar" year="2014" />

      <Button label="Click Me" />
    </div>
  );
}
```

```
        <UserProfile user={userDetails} />

        <Modal title="Welcome" content="This is a simple modal component." />
      </div>
    );
  }

export default App;
```

Step 7: Render Everything in `index.js`

src/index.js

```
javascript
CopyEdit
import React from "react";
import ReactDOM from "react-dom";
import App from "../App";

ReactDOM.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>,
  document.getElementById("root")
);
```