

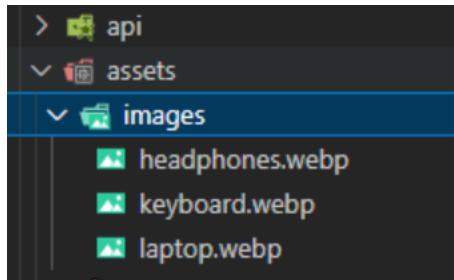
## Assignment 25 – 20<sup>th</sup> November

Web API:

[sankalp-dotnet-chn/ProductsApi](https://sankalp-dotnet-chn/ProductsApi)

React Codes:

Structure:



BookList.jsx

```
import React, { useState } from "react";
import laptopImg from "../assets/images/laptop.webp";
import headphonesImg from "../assets/images/headphones.webp";
import keyboardImg from "../assets/images/keyboard.webp";

const imageMap = {
  Laptop: laptopImg,
  Headphones: headphonesImg,
  Keyboard: keyboardImg,
};

const BookList = ({ products }) => {
  const [hovered, setHovered] = useState(null);

  return (
    <div style={styles.container}>
      {products.map((p) => (
        <div
```

```
        key={p.id}
        style={{ ...styles.card,
... (hovered === p.id ? styles.cardHover : {}),
} }
onMouseEnter={() => setHovered(p.id)}
onMouseLeave={() => setHovered(null)}
>
  {/* PRODUCT IMAGE */}
  <div style={styles.imageContainer}>
    <img src={imageMap[p.name]} alt={p.name} style={styles.image}>
  />
</div>

  {/* CONTENT */}
  <h2 style={styles.title}>{p.name}</h2>
  <p style={styles.description}>{p.description}</p>

  <p style={styles.price}>＄ Price: ${p.price}</p>
  <p style={styles.quantity}>📦 Quantity: {p.quantity}</p>
</div>
) )
</div>
);
};

export default BookList;

/* 🎨 CSS-in-JS Styles */
const styles = {
  container: {
    display: "flex",
    gap: "30px",
    flexWrap: "wrap",
    justifyContent: "center",
    padding: "20px",
  },
  card: {
    width: "300px",
    background: "#1f1f1f",
    borderRadius: "15px",
    padding: "20px",
    textAlign: "center",
    color: "#fff",
    boxShadow: "0 4px 15px rgba(0,0,0,0.3)",
  },
};
```

```
border: "1px solid rgba(255,255,255,0.1)",
transition: "transform 0.3s ease, box-shadow 0.3s ease",
cursor: "pointer",
} , 

cardHover: {
  transform: "scale(1.04)",
  boxShadow: "0 8px 25px rgba(255,255,255,0.2)",
} , 

imageContainer: {
  width: "100%",
  height: "220px", // Increased height (shows full image)
  background: "#2a2a2a", // Background behind image
  borderRadius: "12px",
  padding: "10px", // Padding so image never touches the border
  display: "flex",
  justifyContent: "center",
  alignItems: "center",
  marginBottom: "15px",
} , 

image: {
  maxWidth: "100%",
  maxHeight: "100%",
  objectFit: "contain", // IMPORTANT: shows full image
  borderRadius: "8px",
} , 

title: {
  fontSize: "20px",
  marginBottom: "8px",
  fontWeight: "bold",
  color: "#4db8ff",
} , 

description: {
  fontSize: "15px",
  marginBottom: "10px",
  opacity: "0.9",
} , 

price: {
  fontSize: "16px",
  marginBottom: "5px",
  fontWeight: "bold",
}
```

```
        color: "#00ffcc",
    } ,

quantity: {
    fontSize: "16px",
    fontWeight: "600",
    color: "#ffcc66",
} ,
};
```

## ErrorAlert.jsx

```
import React from "react";

const ErrorAlert = ({ message }) => {
    return (
        <div
            style={{
                padding: "10px",
                background: "#ff4d4d",
                color: "white",
                margin: "20px",
                borderRadius: "5px",
            }}
        >
            {message}
        </div>
    );
}

export default ErrorAlert;
```

## Spinner.jsx

```
import React from "react";

const Spinner = () => {
    return (
        <div style={{ textAlign: "center", padding: "20px" }}>
            <h3>Loading...</h3>
        </div>
    );
}
```

```
};

export default Spinner;
```

## HomePage.jsx

```
import React, { useEffect, useState } from "react";
import { getProducts } from "../api/booksApi";
import Spinner from "../components/Spinner";
import ErrorAlert from "../components/ErrorAlert";
import BookList from "../components/BookList";

const HomePage = () => {
  const [products, setProducts] = useState([]);
  const [loading, setLoading] = useState(true);
  const [error, setError] = useState("");

  useEffect(() => {
    getProducts()
      .then((response) => {
        setProducts(response.data);
        setLoading(false);
      })
      .catch(() => {
        setError("Failed to load data. Please try again.");
        setLoading(false);
      });
  }, []);

  return (
    <div
      style={{
        padding: "40px",
        minHeight: "100vh",
        background: "#121212",
        color: "white",
      }>
    <h1
      style={{
        fontSize: "45px",
        marginBottom: "20px",
        textAlign: "center",
        fontWeight: "800",
      }}>
```

```
        color: "#4db8ff",
    } }
>
Product List
</h1>

{loading && <Spinner />}
{error && <ErrorAlert message={error} />}
={!loading && !error && <BookList products={products} />}
</div>
);
};

export default HomePage;
```

## App.jsx

```
import React from "react";
import HomePage from "./pages/HomePage";

function App () {
  return <HomePage />;
}

export default App;
```

## Main.jsx

```
import { StrictMode } from 'react'
import { createRoot } from 'react-dom/client'
import './index.css'
import App from './App.jsx'

createRoot(document.getElementById('root')).render(
  <StrictMode>
    <App />
  </StrictMode>,
)
```

