

## **Case Study:**

### **Cloth Store Listing**

#### **Scenario :**

**We are building a small Cloth Store Page where we display a list of clothes available in different sizes (S, M, L, XL)with price and description. If the store has no items, it will show "No Products Available"**

**//App.js**

```
import logo from './logo.svg';
import './App.css';
import Product from './components/Product';

function App() {
  return (
    <div className="App">
      <Product />
    </div>
  );
}

export default App;
```

**//Product.js**

```
import React from 'react'
import './Product.css'
const Product = () => {
  const products = [
    {id:101,name:"T-Shirt",description:"Cotton Material",price:499,size:["S","M","L","XL"]},
    {id:102,name:"Jeans",description:"Slim fit denim",price:1299,size:["M","L","XL"]},
    {id:103,name:"Jacket",description:"Winter Collection",price:2499,size:["L","XL"]}
  ]
  return (
```

```
<div className='container'>

  <table className='table'>

    <thead>
      <tr>
        <th>Product ID</th>
        <th>Product Name</th>
        <th>Description</th>
        <th class="price">Price</th>
        <th>Available Sizes</th>
      </tr>
    </thead>
    <tbody>
      {products.length>0?(
        products.map((product)=>
          <tr key={product.id}>
            <td>{product.id}</td>
            <td>{product.name}</td>
            <td>{product.description}</td>
            <td>{product.price}</td>
            <td>{product.size}</td>
          </tr>
        ))
      ):(
        <tr>
          <p>No Products Available!</p>
        </tr>
      )
    }
  </tbody>
</table>
</div>
```

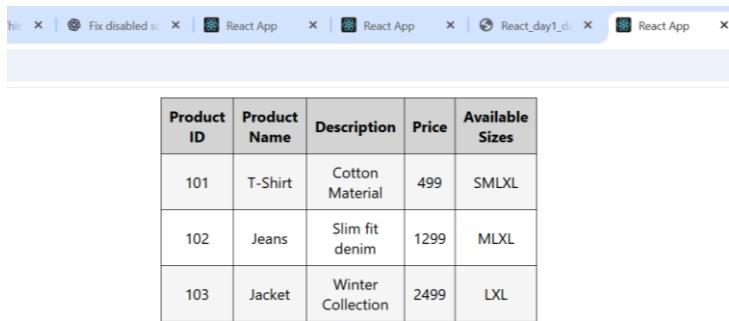
```
)  
}  
  
export default Product
```

```
//Product.css  
table{  
  
margin: 10px;  
width: 400px;  
border-collapse: collapse;  
}
```

```
table th, table td{  
  
border: 1px solid black;  
padding: 8px;  
}
```

```
table thead th{  
  
background-color: lightgray;  
}
```

```
table tr:nth-child(odd){  
  
background-color: #f5f5f5;  
}  
  
.price {  
  
text-align: right;  
}  
  
.container{  
  
display: flex;  
justify-content: center;  
}
```



A screenshot of a browser window showing a simple React application. The title bar has tabs for 'Fix disabled sc...', 'React App', 'React App', 'React\_day1\_d...', and 'React App'. The main content area displays a table with five columns: Product ID, Product Name, Description, Price, and Available Sizes. The table contains three rows of data.

Product ID	Product Name	Description	Price	Available Sizes
101	T-Shirt	Cotton Material	499	SMLXL
102	Jeans	Slim fit denim	1299	MLXL
103	Jacket	Winter Collection	2499	LXL

## 🌱 Case Study:

### Building a Simple Nursery Landing Page in React 🎯

#### Objective:

The goal of this case study is to teach beginners how to structure a React application using components and style them with CSS. We will build a Nursery Landing Page that has:

- Header Component → Displays the nursery name.
- First Component (Main Content) → Shows a welcome message, a dropdown for selecting location, and a list of flowers.
- Footer Component → Displays copyright.

#### //App.js

```
import './App.css';

import First from './components/First';
import Header from './components/Header';
import { Footer } from './components/Footer';

function App() {
  return (
    <div className="App">
      <Header />
      <First />
      <Footer />
    </div>
  );
}

export default App;
```

```
 );
}

export default App;
```

### //Header.js

```
import React from 'react'

import './Header.css'

const Header = () => {

  return (
    <h1 className='header'>My Nursery App</h1>
  )
}

export default Header
```

### //Header.css

```
.header{

  background-color: darkgreen;
  color: white;
  padding: 20px;
  align-items: center;
}
```

### //First.js

```
import React from 'react'

import './First.css'

const message="Creating the Nursery Page";

const list = ['Lily','Rose','Tuplip','Sunflower','Jasmine'];

const First = () => {

  return (
    <div className="container">
      <h1 id="msg">{message}</h1>
    </div>
  )
}

export default First
```

```

<p id="p"><pre>`  

    "Welcome to our beautiful nursery!  

    Here you'll find a wide variety of plants,  

    flowers, and gardening essentials to help you create  

    a peaceful and natural environment.  

    We're passionate about bringing nature closer to your home,  

    and we're delighted to have you here.  

    Explore and enjoy the colors, scents,  

    and freshness of our green world!"`  

</pre></p>  

<select id='dropdown'>  

    <option value='Chennai'>Chennai</option>  

    <option value='Bangalore'>Bangalore</option>  

    <option value='Mumbai'>Mumbai</option>  

    <option value='Delhi'>Delhi</option>  

</select>  

<ul id='list'>  

    {list.map((item,index) => (  

        <li key={index}>{item}</li>  

    ))}  

</ul>  

</div>  

)
}
export default First

```

## //First.css

```

.container {
    display:flex;
    flex-direction: column;
    align-items: center;

```

```
background-color: lightgreen;  
border-radius: 6px;  
}  
  
#msg{  
    font-weight: bold;  
    color: red;  
}  
  
#dropdown{  
    margin: 10px;  
    padding: 10px;  
    border-radius: 10px;  
    border: 2px solid darkgreen;  
}  
  
#list{  
    list-style-type: square;  
    color: darkgreen;  
}
```

### //Footer.js

```
import React from 'react'  
import './Footer.css'  
export const Footer = () => {  
    return (  
        <div className='footer'>  
            <p>© 2025 My Nursery App | All Rights Reserved.</p>  
        </div>  
    )  
}
```

### //Footer.css

```
.footer{  
    background-color: darkgreen;
```

```
padding: 20px;  
color: white;  
align-items:center;  
}  
  
v Techademy x | Sign in to This x | Fix disabled sk x | React App x | React App x | Download his x | React_Day1_C x | +  
← → ⌂ localhost:3000
```

## My Nursery App

### Creating the Nursery Page

"Welcome to our beautiful nursery! Here you'll find a wide variety of plants, flowers, and gardening essentials to help you create a peaceful and natural environment. We're passionate about bringing nature closer to your home, and we're delighted to have you here. Explore and enjoy the colors, scents, and freshness of our green world!"

Chennai ▾

- Lily
- Rose
- Tulip
- Sunflower
- Jasmine

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**Let's build a very simple React example where we have a student array id, name, mark1, mark2)**

### **Array objects**

```
{ id: 1, name: "Alice", mark1: 85, mark2: 90},  
{ id: 2, name: "Bob", mark1: 70, mark2: 65},  
{ id: 3, name: "Charlie", mark1: 50, mark2: 55},  
{ id: 4, name: "David", mark1: 95, mark2: 92}
```

**Find the total marks and according to that put the grade and display them in a table with:**

**Student ID, Student Name, Mark 1, Mark 2, Total Score, Grade**

**Add some external css for the design**

**//App.js**

```
import './App.css';  
  
import Student from './components/Student';  
  
function App() {  
  return (  
    <div className="App">  
      <Student />  
    </div>  
  );  
}  
  
export default App;
```

**//Student.js**

```
import React from 'react'  
  
import './Student.css'  
  
const Student = () => {  
  const students = [  
    { id: 1, name: "Alice", mark1: 85, mark2: 90},
```

```
{ id: 2, name: "Bob", mark1: 70, mark2: 65},  
 { id: 3, name: "Charlie", mark1: 50, mark2: 55},  
 { id: 4, name: "David", mark1: 95, mark2: 92}  
 ]
```

```
return (  
    <div>  
        <table className="student-table">  
            <thead>  
                <tr>  
                    <th>Student Id</th>  
                    <th>Student Name</th>  
                    <th>Student Mark1</th>  
                    <th>Student Mark2</th>  
                    <th>Student Total</th>  
                    <th>Student Grade</th>  
                </tr>  
            </thead>  
            <tbody>  
                {students.map((student)=>{  
                    const total = student.mark1+student.mark2;  
                    let grade ="";  
                    if(total >= 180){  
                        grade="A";  
                    }  
                    else if (total >= 140) {  
                        grade = "B";  
                    }  
                    else if (total >= 100) {  
                        grade = "C";  
                    }  
                })  
            </tbody>  
        </table>  
    </div>
```

```

        else {
            grade = "D";
        }
        return(
            <tr key={student.id}>
                <td>{student.id}</td>
                <td>{student.name}</td>
                <td>{student.mark1}</td>
                <td>{student.mark2}</td>
                <td>{total}</td>
                <td>{grade}</td>
            </tr>
        );
    )}
</tbody>
</table>
</div>
);
};

export default Student

```

### **//Student.css**

```

.student-table {
    width: 100%;
    border-collapse: separate;
}

```

```

.student-table th,
.student-table td {
    border: 1px solid black;
    padding: 8px;
}

```

```

text-align: left;

}

.student-table thead {
background-color: grey;
color: white;
}

.student-table tr:hover{
background-color: pink;
}

.student-table td:hover{
background-color: blue;
}

```

Student Id	Student Name	Student Mark1	Student Mark2	Student Total	Student Grade
1	Alice	85	90	175	B
2	Bob	70	65	135	C
3	Charlie	50	55	105	C
4	David	95	92	187	A

