

ASSIGNMENT-2

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CODE:

APP.JS:

```
import React, { useState, useEffect } from 'react';
import './App.css';

function App() {
  const productData = [
    {
      id: 1,
      name: 'Wireless Mouse',
      description: 'A smooth and responsive wireless mouse.',
      price: 25,
      category: 'Electronics',
      rating: 4,
      image: 'https://tse1.mm.bing.net/th?id=OIP.x4fuCax2Mu96ue1T-UPs8QHaE1&pid=Api&P=0&h=180'
    },
    {
      id: 2,
      name: 'Bluetooth Headphones',
      description: 'Noise-canceling over-ear headphones.',
      price: 75,
      category: 'Electronics',
      rating: 5,
      image:
        'https://tse4.mm.bing.net/th?id=OIP.3pFYpTXExv0nx4GPI7ChqgHaHa&pid=Api&P=0&h=180'
    },
  ];
```

```
    id: 3,
    name: 'Coffee Mug',
    description: 'Ceramic coffee mug.',
    price: 15,
    category: 'Kitchen',
    rating: 3,
    image:
    'https://tse4.mm.bing.net/th?id=OIP.ojtcEhpdpwUyHg90I_1pjwHaGN&pid=Api&P=0&h=180'
  },
  {
    id: 4,
    name: 'Spoon',
    description: 'Spoon.',
    price: 15,
    category: 'Kitchen',
    rating: 3,
    image: 'https://tse2.mm.bing.net/th?id=OIP.enX-Yfr9AezLiwyuUhU64QHaHa&pid=Api&P=0&h=180'
  },
  {
    id: 5,
    name: 'Phone',
    description: 'Phone.',
    price: 15,
    category: 'Electronics',
    rating: 3,
    image:
    'https://tse2.mm.bing.net/th?id=OIP.V8NVXODUkODhicTKe7MblAHaI&pid=Api&P=0&h=180'
  },
  {
    id: 6,
    name: 'Mug',
```

```
        description: 'Ceramic mug.',  
        price: 15,  
        category: 'Kitchen',  
        rating: 3,  
        image: 'https://tse1.mm.bing.net/th?id=OIP.u04o7mcpRO-  
umPgR6CYA7wHaGo&pid=Api&P=0&h=180'  
    },  
    {  
        id: 7,  
        name: 'laptop',  
        description: 'portavble laptop.',  
        price: 150000,  
        category: 'electronics',  
        rating: 5,  
        image:  
        'https://tse2.mm.bing.net/th?id=OIP.dhVAOdOTZd0wK3A8HeN1UwHaFS&pid=Api&P=0&h=180'  
    },  
    {  
        id: 8,  
        name: 'mixi',  
        description: 'prestige mixer.',  
        price: 8000,  
        category: 'Kitchen',  
        rating: 4,  
        image:  
        'https://tse2.mm.bing.net/th?id=OIP.gCLrIDGNrNrHSn44wnoLYQHaHa&pid=Api&P=0&h=180'  
    },  
    {  
        id: 9,  
        name: 'stove',  
        description: 'preethi electric stove.',  
        price: 7000,
```

```
        category: 'Kitchen',
        rating: 5,
        image:
        'https://tse1.mm.bing.net/th?id=OIP.SYNw67j1DTNjNZfOK66hqwHaDR&pid=Api&P=0&h=180'
    },
    {
        id: 10,
        name: 'charger',
        description: 'phone charger',
        price: 1000,
        category: 'electronics',
        rating: 5,
        image:
        'https://tse4.mm.bing.net/th?id=OIP.aZL1FFwRdqyjaY9NbyxIYAHaHW&pid=Api&P=0&h=180'
    },
];
```

```
const [products, setProducts] = useState(productData);
const [search, setSearch] = useState("");
const [category, setCategory] = useState("");
const [sort, setSort] = useState("");
```

```
useEffect(() => {
    let filtered = [...productData];
    if (search) {
        filtered = filtered.filter(p =>
            p.name.toLowerCase().includes(search.toLowerCase())
        );
    }
})
```

```
        if (category) {
            filtered = filtered.filter(p => p.category.toLowerCase() === category.toLowerCase());
        }

        if (sort === 'price') {
            filtered.sort((a, b) => a.price - b.price);
        } else if (sort === 'name') {
            filtered.sort((a, b) => a.name.localeCompare(b.name));
        }

        setProducts(filtered);
    }, [search, category, sort]);

    return (
        <div className="app">
            <header className="app-header">
                
                <h1>Priyaa's Products List</h1>
            </header>
            <header className="app">
                <h3>helloo !! welcome to our page....</h3>
            </header>
        </div>
    );
}
```

```
</header>

<h3>todays dealss...</h3>

<div style={{ padding: '20px' }}>
  <input
    type="text"
    placeholder="Search by name"
    onChange={(e) => setSearch(e.target.value)}
    style={{ marginRight: '10px' }}
  />

  <select onChange={(e) => setCategory(e.target.value)}>
    <option value="">All Categories</option>
    <option value="Electronics">Electronics</option>
    <option value="Kitchen">Kitchen</option>
  </select>

  <select onChange={(e) => setSort(e.target.value)} style={{ marginLeft: '10px' }}>
    <option value="">Sort</option>
    <option value="name">Name</option>
    <option value="price">Price</option>
  </select>

  <div style={{ display: 'flex', flexWrap: 'wrap', marginTop: '20px' }}>
    {products.map((product) => (
      <div key={product.id} style={{
        border: '1px solid #ddd',
        borderRadius: '8px',
        padding: '10px',
        margin: '10px',
        width: '200px'
      }}>

```

```

<img src={product.image} alt={product.name} style={{ width: '100%' }} />
<h3>{product.name}</h3>
<p>${product.price}</p>
<p>{product.description}</p>
<p>{'★'.repeat(product.rating)}</p>
</div>
)})}
</div>
</div>
</div>

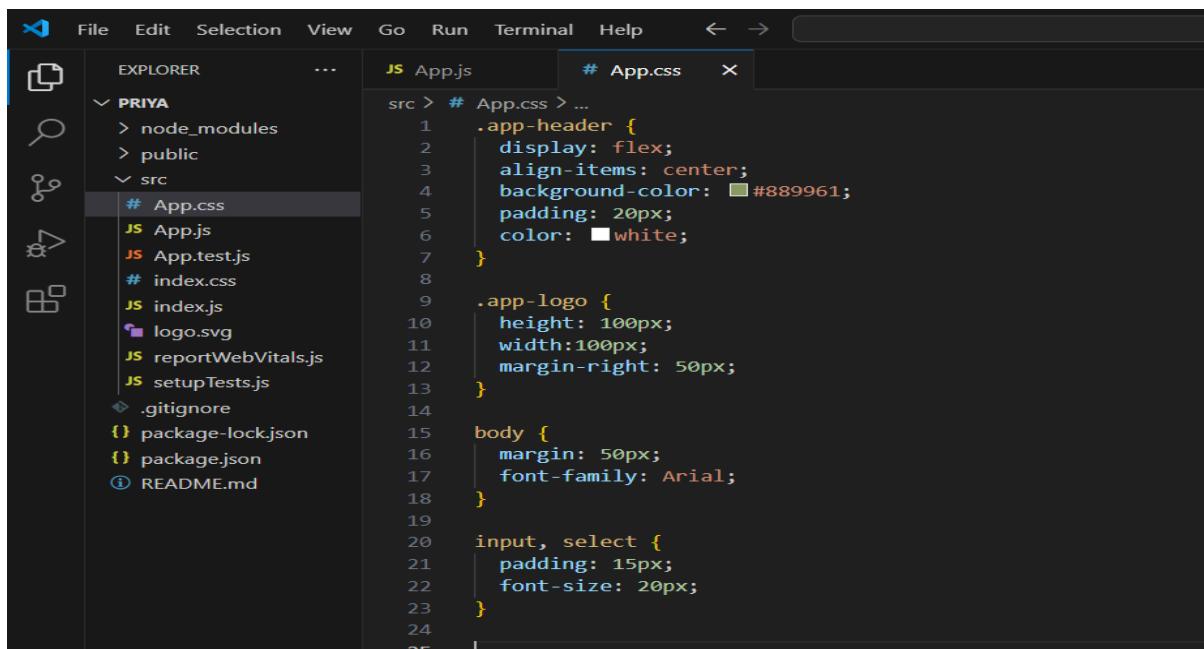
);
}

<p>Happy shopping!!....</p>

```

export default App;

CSS.JS:



The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** On the left, it shows a project structure for "PRIYA". The "src" folder is expanded, showing files like "App.css", "App.js", "App.test.js", "index.css", "index.js", "logo.svg", "reportWebVitals.js", and "setupTests.js".
- Editor:** The main editor area displays the content of "App.css".
- Content of App.css:**

```

src > # App.css > ...
1   .app-header {
2     display: flex;
3     align-items: center;
4     background-color: #889961;
5     padding: 20px;
6     color: white;
7   }
8
9   .app-logo {
10    height: 100px;
11    width: 100px;
12    margin-right: 50px;
13  }
14
15  body {
16    margin: 50px;
17    font-family: Arial;
18  }
19
20  input, select {
21    padding: 15px;
22    font-size: 20px;
23  }
24
25

```

OUTPUTS :

Screenshot of a web browser window showing "Priyaa's Products List".

The page features a green header bar with a "PREMIUM QUALITY" badge and the title "Priyaa's Products List". Below the header, there are two welcome messages: "helloo !! welcome to our page...." and "todays dealss...".

Search and filter options include "Search by name", "All Categories", and "Sort".

The product grid displays five items:

- Wireless Mouse**: \$25, A smooth and responsive wireless mouse.
- Bluetooth Headphones**: \$75, Noise-canceling over-ear headphones.
- Coffee Mug**: \$15, Ceramic coffee mug.
- Spoon**: \$15, Ceramic coffee mug.
- Phone**: \$15, Phone.

Below this, another row of products is shown:

- Mug**: \$15, Ceramic mug.
- laptop**: \$150000, portavble laptop.
- mixi**: \$8000, prestige mixer.
- stove**: \$7000, preethi electric stove.
- charger**: \$1000, phone charger.

Each product card includes a small image, the product name, price, a short description, and a yellow star rating.