Assignment

NAME: ANDE LAKSHMI SRI GOWRI

CODE:

import React, { useState, useEffect } from 'react';

function App() {

const initialProducts = [

{ id: 1, name: 'Laptop',

description: 'High-performance laptop for work and play.',

price: 999,

category: 'Electronics',

rating: 5,

image: 'https://tse2.mm.bing.net/th?id=OIP.mN\_c9DOwI\_w11g5B94ezxQHaE7&pid=Api&P=0&h=180' },

{ id: 2,

name: 'Desk Lamp',

description: 'LED desk lamp with adjustable brightness.',

price: 40,

category: 'Home',

rating: 4,

image: 'https://tse1.mm.bing.net/th?id=OIP.QFmOK0QOW3\_rZeYTrb63KAHaHa&pid=Api&P=0&h=180' },

{ id: 3,

name: 'Water Bottle',

description: 'Reusable stainless steel water bottle.',

price: 20,

category: 'Outdoors',

rating: 4,

image: 'https://tse1.mm.bing.net/th?id=OIP.AVJFxAClc5SQmruIpVCDLAHaHY&pid=Api&P=0&h=180' },

{ id: 4,

name: 'Smartphone',

description: 'Latest model with advanced features.',

price: 699,

category: 'Electronics',

rating: 5,

image: 'https://tse1.mm.bing.net/th?id=OIP.b2EurlA1IyjfIxDPCbAEWAHaF5&pid=Api&P=0&h=180' },

{ id: 5,

name: 'Backpack',

description: 'Durable and lightweight backpack.',

price: 50,

category: 'Outdoors',

rating: 3,

image: 'https://tse4.mm.bing.net/th?id=OIP.nAd0vtwztZuhb-oXJmxrswHaIS&pid=Api&P=0&h=180' }

];

const [products, setProducts] = useState(initialProducts);

const [search, setSearch] = useState('');

const [category, setCategory] = useState('');

const [priceRange, setPriceRange] = useState('');

useEffect(() => {

let filtered = [...initialProducts];

// Search by name

if (search) {

filtered = filtered.filter(p =>

p.name.toLowerCase().includes(search.toLowerCase())

);

}

// Filter by category

if (category) {

filtered = filtered.filter(p => p.category === category);

}

// Filter by price range

if (priceRange) {

const [min, max] = priceRange.split('-').map(Number);

filtered = filtered.filter(p => p.price >= min && p.price <= max);

}

setProducts(filtered);

}, [search, category, priceRange]);

return (

<div style={{ padding: '20px' }}>

<h2>Gowri's Product List</h2>

<div style={{ marginBottom: '20px' }}>

<input

type="text"

placeholder="Search by name"

onChange={(e) => setSearch(e.target.value)}

style={{ marginRight: '10px' }}

/>

<select onChange={(e) => setCategory(e.target.value)} style={{ marginRight: '10px' }}>

<option value="">All Categories</option>

<option value="Electronics">Electronics</option>

<option value="Outdoors">Outdoors</option>

<option value="Home">Home</option>

</select>

<select onChange={(e) => setPriceRange(e.target.value)}>

<option value="">All Prices</option>

<option value="0-50">Under $50</option>

<option value="51-200">$51 - $200</option>

<option value="201-1000">$201 - $1000</option>

</select>

</div>

<div style={{ display: 'flex', flexWrap: 'wrap' }}>

{products.map((product) => (

<div key={product.id} style={{

border: '1px solid #ccc',

borderRadius: '6px',

padding: '10px',

margin: '10px',

width: '220px'

}}>

<img src={product.image} alt={product.name} style={{ width: '100%' }} />

<h3>{product.name}</h3>

<p>${product.price}</p>

<p style={{ fontSize: '14px', color: '#555' }}>{product.description}</p>

<p>{'⭐'.repeat(product.rating)}</p>

</div>

))}

</div>

</div>

);

}

export default App;

OUTPUT:

A screenshot of a computer

AI-generated content may be incorrect.