<DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Product Catalog with Filters</title>

<style>

body {

font-family: 'Poppins', sans-serif;

background: #f4f6f8;

margin: 0;

padding: 0;

}

header {

background-color: #007bff;

color: white;

text-align: center;

padding: 15px 0;

}

.container {

width: 90%;

max-width: 1100px;

margin: 30px auto;

}

.filters {

display: flex;

justify-content: space-between;

background: white;

padding: 15px;

border-radius: 10px;

box-shadow: 0 2px 8px rgba(0,0,0,0.1);

margin-bottom: 25px;

}

select, input {

padding: 8px 10px;

border: 1px solid #ccc;

border-radius: 5px;

font-size: 14px;

}

.product-list {

display: grid;

grid-template-columns: repeat(auto-fit, minmax(220px, 1fr));

gap: 20px;

}

.product {

background: white;

border-radius: 10px;

overflow: hidden;

box-shadow: 0 2px 8px rgba(0,0,0,0.1);

transition: transform 0.2s;

}

.product:hover {

transform: scale(1.03);

}

.product img {

width: 100%;

height: 180px;

object-fit: cover;

}

.product-info {

padding: 10px 15px;

}

.product-info h4 {

margin: 0;

font-size: 18px;

color: #333;

}

.product-info p {

font-size: 14px;

color: #666;

margin: 5px 0;

}

.price {

color: #007bff;

font-weight: bold;

margin-top: 8px;

}

</style>

</head>

<body>

<header>

<h1>🛍️ Product Catalog with Filters</h1>

</header>

<div class="container">

<div class="filters">

<input type="text" id="search" placeholder="Search products...">

<select id="category">

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

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

<option value="fashion">Fashion</option>

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

</select>

<select id="price">

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

<option value="low">Below ₹1000</option>

<option value="mid">₹1000 - ₹5000</option>

<option value="high">Above ₹5000</option>

</select>

</div>

<div class="product-list" id="productList">

<!-- Products will appear here -->

</div>

</div>

<script>

const products = [

{ name: "Smartphone", category: "electronics", price: 12000, image: "https://via.placeholder.com/220x180?text=Smartphone" },

{ name: "Laptop", category: "electronics", price: 45000, image: "https://via.placeholder.com/220x180?text=Laptop" },

{ name: "T-Shirt", category: "fashion", price: 700, image: "https://via.placeholder.com/220x180?text=T-Shirt" },

{ name: "Sofa", category: "home", price: 15000, image: "https://via.placeholder.com/220x180?text=Sofa" },

{ name: "Shoes", category: "fashion", price: 2500, image: "https://via.placeholder.com/220x180?text=Shoes" },

{ name: "Headphones", category: "electronics", price: 1500, image: "https://via.placeholder.com/220x180?text=Headphones" },

{ name: "Curtains", category: "home", price: 900, image: "https://via.placeholder.com/220x180?text=Curtains" },

{ name: "Jacket", category: "fashion", price: 3500, image: "https://via.placeholder.com/220x180?text=Jacket" }

];

const productList = document.getElementById('productList');

const searchInput = document.getElementById('search');

const categoryFilter = document.getElementById('category');

const priceFilter = document.getElementById('price');

// Display products

function displayProducts(items) {

productList.innerHTML = "";

if (items.length === 0) {

productList.innerHTML = "<p>No products found.</p>";

return;

}

items.forEach(p => {

const product = document.createElement('div');

product.classList.add('product');

product.innerHTML = `

<img src="${p.image}" alt="${p.name}">

<div class="product-info">

<h4>${p.name}</h4>

<p>Category: ${p.category}</p>

<p class="price">₹${p.price}</p>

</div>

`;

productList.appendChild(product);

});

}

// Filter logic

function filterProducts() {

const searchText = searchInput.value.toLowerCase();

const category = categoryFilter.value;

const price = priceFilter.value;

const filtered = products.filter(p => {

const matchesSearch = p.name.toLowerCase().includes(searchText);

const matchesCategory = category === "all" || p.category === category;

let matchesPrice = true;

if (price === "low") matchesPrice = p.price < 1000;

else if (price === "mid") matchesPrice = p.price >= 1000 && p.price <= 5000;

else if (price === "high") matchesPrice = p.price > 5000;

return matchesSearch && matchesCategory && matchesPrice;

});

displayProducts(filtered);

}

searchInput.addEventListener('input', filterProducts);

categoryFilter.addEventListener('change', filterProducts);

priceFilter.addEventListener('change', filterProducts);

displayProducts(products);

</script>

</body>

</html>