<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Product Catalogue</title>

<style>

body {

font-family: Arial, sans-serif;

background: #f5f5f5;

margin: 0;

padding: 0;

}

header {

background: #2c3e50;

color: #fff;

text-align: center;

padding: 1rem;

}

.filters {

display: flex;

justify-content: center;

flex-wrap: wrap;

gap: 1rem;

background: #fff;

padding: 1rem;

box-shadow: 0 2px 5px rgba(0,0,0,0.1);

}

.filters input, .filters select {

padding: 0.5rem;

border: 1px solid #ccc;

border-radius: 4px;

}

.catalogue {

display: grid;

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

gap: 1rem;

padding: 2rem;

}

.product {

background: #fff;

border-radius: 8px;

box-shadow: 0 2px 5px rgba(0,0,0,0.1);

padding: 1rem;

text-align: center;

transition: transform 0.2s ease;

}

.product:hover {

transform: scale(1.03);

}

.product img {

max-width: 100%;

height: 150px;

object-fit: cover;

border-radius: 6px;

}

.product h3 {

margin: 0.5rem 0;

color: #333;

}

.product p {

margin: 0.2rem 0;

color: #666;

}

.product span {

font-weight: bold;

color: #27ae60;

}

</style>

</head>

<body>

<header>

<h1>🛍️ Product Catalogue</h1>

</header>

<div class="filters">

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

<select id="categoryFilter">

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

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

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

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

</select>

<select id="priceFilter">

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

<option value="low">Under $50</option>

<option value="medium">$50 - $150</option>

<option value="high">Above $150</option>

</select>

</div>

<div class="catalogue" id="productList">

<!-- Products will load here -->

</div>

<script>

const products = [

{ id: 1, name: "Wireless Headphones", category: "electronics", price: 120, image: "https://via.placeholder.com/200x150?text=Headphones" },

{ id: 2, name: "Smart Watch", category: "electronics", price: 200, image: "https://via.placeholder.com/200x150?text=Smart+Watch" },

{ id: 3, name: "T-Shirt", category: "fashion", price: 25, image: "https://via.placeholder.com/200x150?text=T-Shirt" },

{ id: 4, name: "Leather Jacket", category: "fashion", price: 180, image: "https://via.placeholder.com/200x150?text=Jacket" },

{ id: 5, name: "Table Lamp", category: "home", price: 45, image: "https://via.placeholder.com/200x150?text=Lamp" },

{ id: 6, name: "Vacuum Cleaner", category: "home", price: 130, image: "https://via.placeholder.com/200x150?text=Vacuum" },

{ id: 7, name: "Bluetooth Speaker", category: "electronics", price: 60, image: "https://via.placeholder.com/200x150?text=Speaker" },

{ id: 8, name: "Sneakers", category: "fashion", price: 90, image: "https://via.placeholder.com/200x150?text=Sneakers" }

];

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

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

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

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

function displayProducts(items) {

productList.innerHTML = '';

if (items.length === 0) {

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

return;

}

items.forEach(product => {

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

div.classList.add('product');

div.innerHTML = `

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

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

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

<p>Price: <span>$${product.price}</span></p>

`;

productList.appendChild(div);

});

}

function filterProducts() {

const searchText = searchInput.value.toLowerCase();

const selectedCategory = categoryFilter.value;

const selectedPrice = priceFilter.value;

let filtered = products.filter(p =>

p.name.toLowerCase().includes(searchText)

);

if (selectedCategory !== 'all') {

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

}

if (selectedPrice !== 'all') {

filtered = filtered.filter(p => {

if (selectedPrice === 'low') return p.price < 50;

if (selectedPrice === 'medium') return p.price >= 50 && p.price <= 150;

if (selectedPrice === 'high') return p.price > 150;

});

}

displayProducts(filtered);

}

searchInput.addEventListener('input', filterProducts);

categoryFilter.addEventListener('change', filterProducts);

priceFilter.addEventListener('change', filterProducts);

// Initial display

displayProducts(products);

</script>

</body>

</html>