<!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>

    \* {

      margin: 0;

      padding: 0;

      box-sizing: border-box;

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

    }

    body {

      background: linear-gradient(135deg, #ffecd2, #fcb69f);

      min-height: 100vh;

    }

    header {

      background: #ff7f50;

      color: white;

      text-align: center;

      padding: 20px;

    }

    header h1 {

      font-size: 2rem;

      margin-bottom: 10px;

    }

    #searchBar {

      width: 60%;

      padding: 10px;

      border-radius: 8px;

      border: none;

      font-size: 1rem;

      outline: none;

    }

    .filters {

      background: #fff;

      margin: 20px auto;

      width: 80%;

      display: flex;

      justify-content: space-around;

      padding: 15px;

      border-radius: 10px;

      box-shadow: 0 4px 8px rgba(0,0,0,0.1);

      flex-wrap: wrap;

    }

    .filters h3 {

      color: #ff7f50;

      font-weight: bold;

      width: 100%;

      text-align: center;

      margin-bottom: 10px;

    }

    .filters select {

      padding: 8px;

      border-radius: 5px;

      border: 1px solid #ccc;

      font-size: 1rem;

      cursor: pointer;

      margin: 5px;

    }

    #productContainer {

      display: grid;

      grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));

      gap: 20px;

      width: 85%;

      margin: 20px auto;

    }

    .product-card {

      background: white;

      border-radius: 12px;

      box-shadow: 0 6px 12px rgba(0,0,0,0.1);

      padding: 15px;

      transition: transform 0.2s, box-shadow 0.3s;

      text-align: center;

    }

    .product-card:hover {

      transform: translateY(-5px);

      box-shadow: 0 10px 20px rgba(0,0,0,0.2);

    }

    .product-card img {

      width: 100%;

      border-radius: 10px;

    }

    .product-card h4 {

      margin: 10px 0 5px;

      color: #333;

    }

    .product-card p {

      color: #555;

    }

    .price {

      color: #ff7f50;

      font-weight: bold;

      font-size: 1.1rem;

    }

    footer {

      text-align: center;

      background: #333;

      color: white;

      padding: 15px;

      margin-top: 40px;

    }

    @media (max-width: 600px) {

      #searchBar {

        width: 90%;

      }

      .filters {

        flex-direction: column;

        align-items: center;

      }

    }

  </style>

</head>

<body>

  <header>

    <h1>🛒 Product Catalog</h1>

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

  </header>

  <section class="filters">

    <h3>Filter Products</h3>

    <div>

      <label>Category:</label>

      <select id="categoryFilter">

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

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

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

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

        <option value="toys">Toys</option>

      </select>

    </div>

    <div>

      <label>Price:</label>

      <select id="priceFilter">

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

        <option value="low">Below $100</option>

        <option value="medium">$100 - $500</option>

        <option value="high">Above $500</option>

      </select>

    </div>

  </section>

  <main id="productContainer"></main>

  <footer>

    <p>© 2025 Product Catalog with Filters | Designed by <b>Your Name</b></p>

  </footer>

  <script>

    // --- Product Data ---

    const products = [

      { id: 1, name: " Smartphone", category: "electronics", price: 799, image: "https://via.placeholder.com/250x200/FF7F50/fff?text=Smartphone" },

      { id: 2, name: " Headphones", category: "electronics", price: 149, image: "https://via.placeholder.com/250x200/20B2AA/fff?text=Headphones" },

      { id: 3, name: "Leather Jacket", category: "fashion", price: 250, image: "https://via.placeholder.com/250x200/DC143C/fff?text=Jacket" },

      { id: 4, name: "Wrist Watch", category: "fashion", price: 120, image: "https://via.placeholder.com/250x200/FFD700/333?text=Watch" },

      { id: 5, name: "Microwave Oven", category: "home", price: 320, image: "https://via.placeholder.com/250x200/8A2BE2/fff?text=Microwave" },

      { id: 6, name: "Sofa Set", category: "home", price: 899, image: "https://via.placeholder.com/250x200/FF4500/fff?text=Sofa" },

      { id: 7, name: "Toy Car", category: "toys", price: 59, image: "https://via.placeholder.com/250x200/32CD32/fff?text=Toy+Car" },

      { id: 8, name: "Action Figure", category: "toys", price: 79, image: "https://via.placeholder.com/250x200/1E90FF/fff?text=Action+Figure" },

      { id: 9, name: "Laptop", category: "electronics", price: 999, image: "https://via.placeholder.com/250x200/0000CD/fff?text=Laptop" },

      { id: 10, name: "Blender", category: "home", price: 199, image: "https://via.placeholder.com/250x200/FF69B4/fff?text=Blender" },

    ];

    // --- Selectors ---

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

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

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

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

    // --- Display Products ---

    function displayProducts(items) {

      productContainer.innerHTML = "";

      if (items.length === 0) {

        productContainer.innerHTML = "<h3>No products found 😢</h3>";

        return;

      }

      items.forEach(prod => {

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

        card.classList.add('product-card');

        card.innerHTML = `

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

          <h4>${prod.name}</h4>

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

          <p class="price">$${prod.price}</p>

        `;

        productContainer.appendChild(card);

      });

    }

    // --- Filter Function ---

    function applyFilters() {

      const selectedCategory = categoryFilter.value;

      const selectedPrice = priceFilter.value;

      const searchTerm = searchBar.value.toLowerCase();

      let filtered = products.filter(p => {

        let categoryMatch = selectedCategory === 'all' || p.category === selectedCategory;

        let priceMatch = false;

        if (selectedPrice === 'all') priceMatch = true;

        else if (selectedPrice === 'low') priceMatch = p.price < 100;

        else if (selectedPrice === 'medium') priceMatch = p.price >= 100 && p.price <= 500;

        else if (selectedPrice === 'high') priceMatch = p.price > 500;

        let searchMatch = p.name.toLowerCase().includes(searchTerm);

        return categoryMatch && priceMatch && searchMatch;

      });

      displayProducts(filtered);

    }

    // --- Event Listeners ---

    categoryFilter.addEventListener('change', applyFilters);

    priceFilter.addEventListener('change', applyFilters);

    searchBar.addEventListener('input', applyFilters);

    // --- Initial Load ---

    displayProducts(products);

  </script>

</body>

</html>