## **FULL STACK - EXPERIMENT 2.2**

# **Experiment: Dynamic Product Filter with Dropdown using JavaScript DOM Manipulation**

#### AIM

Build a web-based product list that dynamically filters items using a dropdown menu and JavaScript DOM manipulation.

### CODE

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Dynamic Product Filter</title>
 <style>
   body { font-family: Arial, sans-serif; padding: 20px; }
    .container { border: 1px solid #000; padding: 15px; margin-bottom: 20px; }
   h2 { margin: 0 0 10px; }
   select { padding: 5px; margin-bottom: 15px; }
   .product { border: 1px solid #eee; padding: 10px; margin-bottom: 5px; border-radius: 4px; }
 </style>
</head>
<body>
 <div class="container">
   <h2>Product List</h2>
   <label>Filter by Category:
     <select id="categoryFilter">
       <option value="all">All</option>
       <option value="clothing">Clothing</option>
       <option value="electronics">Electronics</option>
       <option value="books">Books</option>
      </select>
   </label>
   <div id="productList">
      <div class="product" data-category="clothing">T-Shirt</div>
     <div class="product" data-category="clothing">Jeans</div>
      <div class="product" data-category="electronics">Headphones</div>
      <div class="product" data-category="electronics">Smartphone</div>
      <div class="product" data-category="books">Novel</div>
      <div class="product" data-category="books">Cookbook</div>
    </div>
 </div>
 <script>
   const filter = document.getElementById('categoryFilter');
   const products = document.querySelectorAll('.product');
```

```
filter.addEventListener('change', () => {
    const value = filter.value;
    products.forEach(product => {
        if (value === 'all' || product.dataset.category === value) {
            product.style.display = 'block';
        } else {
            product.style.display = 'none';
        }
      });
      {/script>
      </body>
      </html>
```

### Output:



Product List	
Filter by Category:	Clothing
T-Shirt	
Jeans	

Filter by Category: B	ooks 🗸													
Novel														
Cookbook														