

EXPERIMENT 2.2

AIM:

Dynamic Product Filter with Dropdown using JavaScript DOM Manipulation

CODE:

```
<!DOCTYPE html>

<html>

<head>

  <title>Dynamic Product Filter</title>

  <style>

    body {

      font-family: Arial, sans-serif;

    }

    select {

      padding: 5px;

      margin-bottom: 10px;

    }

    .product {

      margin: 5px 0;

      padding: 8px;

      border: 1px solid #ccc;

      width: 200px;

    }

  </style>

</head>

<body>


  <h2>Product List</h2>

  <label for="category">Filter by Category:</label>

  <select id="category">
```

```
<option value="all">All</option>
<option value="electronics">Electronics</option>
<option value="clothing">Clothing</option>
<option value="books">Books</option>
</select>

<div id="product-list">
  <div class="product" data-category="electronics">Laptop</div>
  <div class="product" data-category="electronics">Smartphone</div>
  <div class="product" data-category="clothing">T-Shirt</div>
  <div class="product" data-category="clothing">Jeans</div>
  <div class="product" data-category="books">JavaScript Guide</div>
  <div class="product" data-category="books">C++ Programming</div>
</div>

<script>
  const dropdown = document.getElementById('category');
  const products = document.querySelectorAll('.product');

  dropdown.addEventListener('change', function () {
    const selected = dropdown.value;

    products.forEach(product => {
      if (selected === 'all' || product.dataset.category === selected) {
        product.style.display = 'block';
      } else {
        product.style.display = 'none';
      }
    });
  });
</script>
```

</body>

</html>

OUTPUT:

Product List

Filter by Category:

All ▼

Laptop

Smartphone

T-Shirt

Jeans

JavaScript Guide

C++ Programming

Product List

Filter by Category:

Electronics ▼

Laptop

Smartphone

Product List

Filter by Category: Clothing 

T-Shirt

Jeans

Product List

Filter by Category: Books 

JavaScript Guide

C++ Programming