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3<sup>rd</sup> Year Section B (B1)

Practical 10 Final Task(JavaScript)

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```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Product Dashboard</title>
  <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
  <style>
    body { font-family: Arial, sans-serif; margin: 20px; }
    table { width: 100%; border-collapse: collapse; margin-top: 10px; }
    th, td { border: 1px solid #ddd; padding: 8px; text-align: center; }
    th { background-color: #f2f2f2; }
    .low-stock { background-color: #ffcccc; }
    .section-title { margin-top: 30px; color: #444; }
  </style>
</head>
<body>
  <h2>Product Dashboard</h2>

  <label>Search by name: </label>
  <input type="text" id="searchBox" placeholder="Enter product name..." />

  <label style="margin-left: 20px;">Filter by category:</label>
  <select id="categoryFilter">
    <option value="all">All</option>
  </select>

  <h3 class="section-title">Products (Loaded using Fetch)</h3>
  <table id="fetchTable">
    <thead>
      <tr>
        <th>ID</th><th>Name</th><th>Category</th><th>Price</th><th>Stock</th>
      </tr>
    </thead>
    <tbody></tbody>
  </table>

  <h3 class="section-title">Products (Loaded using jQuery $.getJSON)</h3>
  <table id="jqueryTable">
    <thead>
      <tr>
        <th>ID</th><th>Name</th><th>Category</th><th>Price</th><th>Stock</th>
      </tr>
    </thead>
    <tbody></tbody>
  </table>

  <script src="script.js"></script>
</body>
</html>
```

```
[
  { "id": 1, "name": "Smartphone", "category": "Electronics", "price": 22000, "stock": 10 },
  { "id": 2, "name": "Bluetooth Speaker", "category": "Electronics", "price": 3500, "stock": 4 },
  { "id": 3, "name": "Gaming Chair", "category": "Furniture", "price": 12000, "stock": 6 },
  { "id": 4, "name": "Water Bottle", "category": "Kitchen", "price": 450, "stock": 3 },
  { "id": 5, "name": "Sketchbook", "category": "Stationery", "price": 250, "stock": 9 }
]
```

```

let allProducts = [];

fetch('products.json')
  .then(res => res.json())
  .then(data => {
    allProducts = data;
    renderTable(data, 'fetchTable');
    populateCategories(data);
  })
  .catch(err => console.error('Error loading products.json:', err));

$.getJSON('products.json', function(data) {
  renderTable(data, 'jqueryTable');
});

function renderTable(products, tableId) {
  const tbody = document.querySelector(`#${tableId} tbody`);
  tbody.innerHTML = '';

  products.forEach(p => {
    const row = document.createElement('tr');
    if (p.stock < 5) row.classList.add('low-stock');
    row.innerHTML = `
      <td>${p.id}</td>
      <td>${p.name}</td>
      <td>${p.category}</td>
      <td>${p.price}</td>
      <td>${p.stock}</td>
    `;
    tbody.appendChild(row);
  });

  console.log(`Displayed ${products.length} items in ${tableId}`);
}

function populateCategories(products) {
  const select = document.getElementById('categoryFilter');
  const categories = [...new Set(products.map(p => p.category))];
  categories.forEach(cat => {
    const opt = document.createElement('option');
    opt.value = cat;
    opt.textContent = cat;
    select.appendChild(opt);
  });
}

document.getElementById('categoryFilter').addEventListener('change', applyFilters);
document.getElementById('searchBox').addEventListener('input', applyFilters);

function applyFilters() {
  const category = document.getElementById('categoryFilter').value.toLowerCase();
  const searchText = document.getElementById('searchBox').value.toLowerCase();

  const filtered = allProducts.filter(p => {
    const matchesCategory = (category === 'all' || p.category.toLowerCase() === category);
    const matchesSearch = p.name.toLowerCase().includes(searchText);
    return matchesCategory && matchesSearch;
  });

  renderTable(filtered, 'fetchTable');
}

```

Product Dashboard

Search by name:  Filter by category: 

All

Products (Loaded using Fetch)

ID	Name	Category	Price	Stock
1	Smartphone	Electronics	22000	10
2	Bluetooth Speaker	Electronics	3500	4
3	Gaming Chair	Furniture	12000	6
4	Water Bottle	Kitchen	450	3
5	Sketchbook	Stationery	250	9

Products (Loaded using jQuery \$.getJSON)

ID	Name	Category	Price	Stock
1	Smartphone	Electronics	22000	10
2	Bluetooth Speaker	Electronics	3500	4
3	Gaming Chair	Furniture	12000	6
4	Water Bottle	Kitchen	450	3
5	Sketchbook	Stationery	250	9

Product Dashboard

Search by name:  Filter by category: 

Electronics

Products (Loaded using Fetch)

ID	Name	Category	Price	Stock
1	Smartphone	Electronics	22000	10
2	Bluetooth Speaker	Electronics	3500	4

Products (Loaded using jQuery \$.getJSON)

ID	Name	Category	Price	Stock
1	Smartphone	Electronics	22000	10
2	Bluetooth Speaker	Electronics	3500	4
3	Gaming Chair	Furniture	12000	6
4	Water Bottle	Kitchen	450	3
5	Sketchbook	Stationery	250	9

## Product Dashboard

Search by name:  Filter by category:

Products (Loaded using Fetch)

ID	Name	Category	Price	Stock
3	Gaming Chair	Furniture	12000	6

Products (Loaded using jQuery \$.getJSON)

ID	Name	Category	Price	Stock
1	Smartphone	Electronics	22000	10
2	Bluetooth Speaker	Electronics	3500	4
3	Gaming Chair	Furniture	12000	6
4	Water Bottle	Kitchen	450	3
5	Sketchbook	Stationery	250	9

## Product Dashboard

Search by name:  Filter by category:

Products (Loaded using Fetch)

ID	Name	Category	Price	Stock
4	Water Bottle	Kitchen	450	3

Products (Loaded using jQuery \$.getJSON)

ID	Name	Category	Price	Stock
1	Smartphone	Electronics	22000	10
2	Bluetooth Speaker	Electronics	3500	4
3	Gaming Chair	Furniture	12000	6
4	Water Bottle	Kitchen	450	3
5	Sketchbook	Stationery	250	9

## Product Dashboard

Search by name:

Filter by category: Stationery ▾

### Products (Loaded using Fetch)

ID	Name	Category	Price	Stock
5	Sketchbook	Stationery	250	9

### Products (Loaded using jQuery \$.getJSON)

ID	Name	Category	Price	Stock
1	Smartphone	Electronics	22000	10
2	Bluetooth Speaker	Electronics	3500	4
3	Gaming Chair	Furniture	12000	6
4	Water Bottle	Kitchen	450	3
5	Sketchbook	Stationery	250	9