

## Group 4

### Lab 7: Group Work Project Alpha Web Storefront: Product Management Web Page

Contributors:

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## Products web page-

# Products

Created by Group 4

[Home](#)[Products](#)[Shopping Cart](#)[About Us](#)[Contact](#)[Sign Up](#)

### Our Products

Explore our wide range of products below.

Search Products:

#### High-quality wireless headphones

**Category:** Electronics

**Unit:** Piece

**Weight:** 0.5 kg

**Price:** \$99.99

[Add to Cart](#)

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### Smartphone with 6.5-inch display

**Category:** Electronics

**Unit:** Piece

**Weight:** 0.2 kg

**Price:** \$499.99



**Add to Cart**

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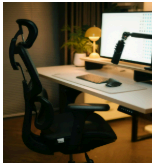
### Ergonomic office chair

**Category:** Furniture

**Unit:** Piece

**Weight:** 15 kg

**Price:** \$199.99



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## Products.html code pictures and contributions:

Tim –

Worked on getting the search bar implemented, adding the pictures, and formatting.  
Created the function for storing the cart items in the sessionStorage so that check out is easier.

Viet -

Fixed the display of the navigation bar on this page. Also checked for any other glaring visual issues.

shopping\_cart.html # styles.css products.html X shopper\_info.json products.json

products.html > html > body > script > renderProductList > products.forEach() callback

```

1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Products</title>
7     <link rel="stylesheet" href="styles.css"/>
8     <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"/>
9     <link rel="stylesheet" href="https://code.jquery.com/ui/1.13.2/themes/base/jquery-ui.css"/>
10    <script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
11    <script src="https://code.jquery.com/ui/1.13.2/jquery-ui.min.js"></script>
12  </head>
13  <body>
14    <header>
15      <h1>Products</h1>
16      <p>Created by Group 4</p>
17    </header>
18    <nav aria-label="Main Navigation">
19      <ul>
20        <li><a href="index.html">Home</a></li>
21        <li><a href="products.html">Products</a></li>
22        <li><a href="shopping_cart.html">Shopping Cart</a></li>
23        <li><a href="about_us.html">About Us</a></li>
24        <li><a href="contact.html">Contact</a></li>
25        <li><a href="sign_up.html" class="signup-btn">Sign Up</a></li>
26      </ul>
27    </nav>
28    <main>
29      <section>
30        <h2>Our Products</h2>
31        <p>Explore our wide range of products below.</p>
32
33        <!-- Search bar -->
34        <label for="search-product">Search Products:</label>
35        <input id="search-product" type="text" placeholder="Search products..."/>
36        <div id="search-result" class="mt-3"></div>
37
38        <ul id="product-list"></ul>
39
40      </section>
41    </main>
42    <footer>
43      <p>© 2025 Group 4. All Rights Reserved.</p>
44    </footer>
45    <script>
46      let productData = [];
47
48      function renderProductList(products) {
49        $("#product-list").empty();
50        products.forEach(product => {
51          $("#product-list").append(
52            <div class="product-item">
53              <h3>${product.ProductDescription}</h3>
54              <p><strong>Category:</strong> ${product.ProductCategory}</p>
55              <p><strong>Unit:</strong> ${product.ProductUnitOfMeasure}</p>

```

```

shopping_cart.html # styles.css products.html X {} shopper_info.json {} products.json
products.html > <html> <body> <script> <renderProductList> <products.forEach() callback>
2 <html lang="en">
13 <body>
45 <script>
48 function renderProductList(products) {
50 products.forEach(product => {
52 <div class="product-item">
53 <h3>${product.ProductDescription}</h3>
54 <p><strong>Category:</strong> ${product.ProductCategory}</p>
55 <p><strong>Unit:</strong> ${product.ProductUnitOfMeasure}</p>
56 <p><strong>Weight:</strong> ${product.ProductWeight}</p>
57 <p><strong>Price:</strong> ${product.ProductPrice.toFixed(2)}</p>
58 <p>${product.ProductImage}  : ""><p>
59 <br>
60 <button class="add-to-cart" data-id="${product.ProductId}">Add to Cart</button>
61 <hr>
62 </div>
63
64 });
65 }
66
67 function addToCart(productId) {
68 let cart = JSON.parse(sessionStorage.getItem("cart")) || [];
69 const existing = cart.find(item => item.ProductId === productId);
70
71 if (existing) {
72 existing.Quantity += 1;
73 } else {
74 cart.push({ ProductId: productId, Quantity: 1 });
75 }
76
77 sessionStorage.setItem("cart", JSON.stringify(cart));
78 alert("Item added to cart!");
79 }
80
81 $(document).ready(function () {
82 $.getJSON("products.json", function (data) {
83 productData = data;
84 renderProductList(productData);
85
86 const productNames = data.map(p => p.ProductDescription);
87 $("#search-product").autocomplete({
88 source: productNames,
89 select: function (event, ui) {
90 const selected = data.find(p => p.ProductDescription === ui.item.value);
91 if (selected) {
92 $("#search-result").html(`
93 <div>
94 <h3>${selected.ProductDescription}</h3>
95 <p><strong>Category:</strong> ${selected.ProductCategory}</p>
96 <p><strong>Unit:</strong> ${selected.ProductUnitOfMeasure}</p>
97 <p><strong>Weight:</strong> ${selected.ProductWeight}</p>
98 <p><strong>Price:</strong> ${selected.ProductPrice.toFixed(2)}</p>
99 <button class="add-to-cart" data-id="${selected.ProductId}">Add to Cart</button>
100 </div>
101 `);

```

```

80
81     $(document).ready(function () {
82         $.getJSON("products.json", function (data) {
83             productData = data;
84             renderProductList(productData);
85
86             const productNames = data.map(p => p.ProductDescription);
87             $("#search-product").autocomplete({
88                 source: productNames,
89                 select: function (event, ui) {
90                     const selected = data.find(p => p.ProductDescription === ui.item.value);
91                     if (selected) {
92                         $("#search-result").html(`
93                             <div>
94                                 <h3>${selected.ProductDescription}</h3>
95                                 <p><strong>Category:</strong> ${selected.ProductCategory}</p>
96                                 <p><strong>Unit:</strong> ${selected.ProductUnitOfMeasure}</p>
97                                 <p><strong>Weight:</strong> ${selected.ProductWeight}</p>
98                                 <p><strong>Price:</strong> ${selected.ProductPrice.toFixed(2)}</p>
99                                 <button class="add-to-cart" data-id="${selected.ProductId}">Add to Cart</button>
100                             </div>
101                         `);
102                         $("html, body").animate({
103                             scrollTop: $("#search-result").offset().top
104                         }, 500);
105                     }
106                 }
107             });
108         });
109
110         $(document).on("click", ".add-to-cart", function () {
111             const productId = $(this).data("id");
112             addToCart(productId);
113         });
114     });
115 </script>
116 </body>
117 </html>
118

```

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## Products.json code pictures and contributions:

Tim –

Added picture locations to JSON file.

Josh Brandt -

Created products.json

Filled with products

Experimented with Ajax

Kyle -

Created the css for the products page.

Collaborated with product page functionality.

Pair programmed with other members of the group with various file additions to the repository.

```
shopping_cart.html # styles.css products.html shopper_info.json products.json X
products.json > {} 0 > ProductImage
1  [
2
3      "ProductId": "12345",
4      "ProductDescription": "High-quality wireless headphones",
5      "ProductCategory": "Electronics",
6      "ProductUnitOfMeasure": "Piece",
7      "ProductPrice": 99.99,
8      "ProductWeight": "0.5 kg",
9      "ProductImage": "images/wireless_headphones.jpg"
10  },
11  ,
12  {
13      "ProductId": "23456",
14      "ProductDescription": "Smartphone with 6.5-inch display",
15      "ProductCategory": "Electronics",
16      "ProductUnitOfMeasure": "Piece",
17      "ProductPrice": 499.99,
18      "ProductWeight": "0.2 kg",
19      "ProductImage": "images/smartphone.jpg"
20  },
21  ,
22  {
23      "ProductId": "67890",
24      "ProductDescription": "Ergonomic office chair",
25      "ProductCategory": "Furniture",
26      "ProductUnitOfMeasure": "Piece",
27      "ProductPrice": 199.99,
28      "ProductWeight": "15 kg",
29      "ProductImage": "images/office_chair.jpg"
30  },
31  ,
32  {
33      "ProductId": "54321",
34      "ProductDescription": "Stainless steel kitchen sink",
35      "ProductCategory": "Kitchen",
36      "ProductUnitOfMeasure": "Piece",
37      "ProductPrice": 299.99,
38      "ProductWeight": "10 kg",
39      "ProductImage": "images/kitchen_sink.jpg"
40  },
41  ,
42  {
43      "ProductId": "09876",
44      "ProductDescription": "Cotton bed sheets",
45      "ProductCategory": "Bedding",
46      "ProductUnitOfMeasure": "Piece",
47      "ProductPrice": 49.99,
48      "ProductWeight": "1 kg",
49      "ProductImage": "images/bed_sheets.jpg"
50  },
51  ,
52  {
53      "ProductId": "13579",
54      "ProductDescription": "Set of 6 ceramic dinner plates",
55      "ProductCategory": "Kitchen",
```