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from flask import Flask, request, jsonify, render_template_string

app = Flask(__name__)

# In-memory product data and cart
products = {
    "1": {"name": "Apples", "price": 50},
    "2": {"name": "Bananas", "price": 30},
    "3": {"name": "Rice 1kg", "price": 60},
    "4": {"name": "Milk 1L", "price": 45}
}
cart = {}

# HTML, CSS, and JavaScript - All in One
html_template = """
<!DOCTYPE html>
<html lang='en'>
<head>
    <meta charset='UTF-8'>
    <title>Grocery Store</title>
    <style>
        body { font-family: Arial; background-color: #f4f4f4; }
        header { background-color: #2c3e50; color: white; text-align: center; padding: 1rem; }
        .container { display: flex; gap: 2rem; flex-wrap: wrap; padding: 2rem; }
        .products, .cart { background-color: white; padding: 1rem; border-radius: 8px; box-shadow: 0
2px 6px rgba(0,0,0,0.1); flex: 1; min-width: 300px; }
        .product, .cart-item { display: flex; justify-content: space-between; align-items: center;
border-bottom: 1px solid #ddd; padding: 0.5rem 0; }
        .product input { width: 50px; margin-left: 10px; }
        button { background-color: #27ae60; color: white; padding: 6px 12px; border-radius: 4px;
border: none; cursor: pointer; }
        .total { font-weight: bold; font-size: 1.2rem; margin-top: 1rem; text-align: right; }
    </style>
</head>
<body>
<header><h1>Grocery Store Grocery Store</h1></header>
<main>
    <div class='container'>
        <div class='products'>
            <h2>Products</h2>
            {% for id, p in products.items() %}
                <div class='product'>
                    <span>{{ p.name }} (Rs.{{ p.price }})</span>
                    <div>
                        Qty: <input type='number' id='qty'{{ id }}' min='1' value='1'>
                        <button onclick='addToCart("{{ id }}" )>Add</button>
                    </div>
                </div>
            {% endfor %}
        </div>
        <div class='cart'>
            <h2>Your Cart Your Cart</h2>
            <div id='cart-items'></div>

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        <div class='total'>Total: Rs.<span id='total'>0</span></div>
    </div>
</div>
</main>
<script>
function addToCart(id) {
    const qty = parseInt(document.getElementById('qty' + id).value);
    if (!qty || qty < 1) return;
    fetch('/add_to_cart', {
        method: 'POST',
        headers: { 'Content-Type': 'application/json' },
        body: JSON.stringify({ product_id: id, quantity: qty })
    }).then(() => loadCart());
}
function loadCart() {
    fetch('/cart').then(res => res.json()).then(data => {
        const cartDiv = document.getElementById('cart-items');
        cartDiv.innerHTML = '';
        data.cart.forEach(item => {
            const div = document.createElement('div');
            div.className = 'cart-item';
            div.innerHTML = `<span>${item.name} x ${item.qty}</span><span>Rs.${item.subtotal}</span>`;
            cartDiv.appendChild(div);
        });
        document.getElementById('total').innerText = data.total;
    });
}
window.onload = loadCart;
</script>
</body>
</html>
"""

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@app.route('/')
def home():
    return render_template_string(html_template, products=products)

@app.route('/add_to_cart', methods=['POST'])
def add_to_cart():
    data = request.get_json()
    pid = str(data.get("product_id"))
    qty = int(data.get("quantity", 1))
    if pid not in products:
        return jsonify({"error": "Invalid product ID"}), 400
    if pid in cart:
        cart[pid]["qty"] += qty
    else:
        cart[pid] = {
            "name": products[pid]["name"],
            "price": products[pid]["price"],
            "qty": qty
        }
    return jsonify({"message": "Added to cart"})

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@app.route('/cart')
def view_cart():
    items = []
    total = 0
    for item in cart.values():
        subtotal = item["qty"] * item["price"]
        items.append(**item, "subtotal": subtotal)
        total += subtotal
    return jsonify({"cart": items, "total": total})

if __name__ == '__main__':
    app.run(debug=True)
```