<!DOCTYPE html>﻿  
<html lang="en">﻿  
<head>﻿  
  <meta charset="UTF-8">﻿  
  <meta name="viewport" content="width=device-width, initial-scale=1.0">﻿  
  <title>Sim Companies Marketplace</title>﻿  
  <style>﻿  
    body { font-family: Arial, sans-serif; text-align: center; margin: 20px; }﻿  
    .hidden { display: none; }﻿  
    button { padding: 10px 20px; margin: 10px; cursor: pointer; }﻿  
    input { padding: 8px; margin: 10px 0; width: 80%; }﻿  
    .notification { margin-top: 20px; padding: 10px; background-color: #e7f5e7; border: 1px solid green; }﻿  
  </style>﻿  
</head>﻿  
<body>﻿  
  <div id="welcome-screen">﻿  
    <h1>Welcome to Sim Companies Marketplace</h1>﻿  
    <button onclick="showPage('auth-screen')">Click to Continue</button>﻿  
  </div>﻿  
  
  <div id="auth-screen" class="hidden">﻿  
    <button onclick="showPage('register-screen')">Register</button>﻿  
    <button onclick="showPage('login-screen')">Login</button>﻿  
  </div>﻿  
  
  <div id="register-screen" class="hidden">﻿  
    <h2>Register</h2>﻿  
    <input id="reg-username" type="text" placeholder="Sim Companies Username" />﻿  
    <input id="reg-email" type="email" placeholder="Email ID" />﻿  
    <input id="reg-password" type="password" placeholder="Password" />﻿  
    <button onclick="register()">Register</button>﻿  
  </div>﻿  
  
  <div id="login-screen" class="hidden">﻿  
    <h2>Login</h2>﻿  
    <input id="login-username" type="text" placeholder="Username" />﻿  
    <input id="login-password" type="password" placeholder="Password" />﻿  
    <button onclick="login()">Login</button>﻿  
  </div>﻿  
  
  <div id="marketplace-screen" class="hidden">﻿  
    <h2>Marketplace</h2>﻿  
    <button onclick="showPage('sell-screen')">Sell</button>﻿  
    <button onclick="showPage('buy-screen')">Buy</button>﻿  
    <div id="notification-area"></div>﻿  
  </div>﻿  
  
  <div id="sell-screen" class="hidden">﻿  
    <h2>Sell a Product</h2>﻿  
    <input id="product-name" type="text" placeholder="Product Name" />﻿  
    <input id="product-quality" type="text" placeholder="Quality" />﻿  
    <input id="product-quantity" type="number" placeholder="Quantity" />﻿  
    <button onclick="sellProduct()">Sell</button>﻿  
  </div>﻿  
  
  <div id="buy-screen" class="hidden">﻿  
    <h2>Available Products</h2>﻿  
    <div id="product-list"></div>﻿  
  </div>﻿  
  
  <div id="seller-products-screen" class="hidden">﻿  
    <h2>Your Products</h2>﻿  
    <div id="seller-products-list"></div>﻿  
  </div>﻿  
  
  <script>﻿  
    const users = JSON.parse(localStorage.getItem('users')) || {};﻿  
    const products = JSON.parse(localStorage.getItem('products')) || [];﻿  
    const notifications = JSON.parse(localStorage.getItem('notifications')) || {};﻿  
    let loggedInUser = null;﻿  
  
    function showPage(pageId) {﻿  
      document.querySelectorAll('div').forEach(div => div.classList.add('hidden'));﻿  
      document.getElementById(pageId).classList.remove('hidden');﻿  
    }﻿  
  
    function register() {﻿  
      const username = document.getElementById('reg-username').value;﻿  
      const email = document.getElementById('reg-email').value;﻿  
      const password = document.getElementById('reg-password').value;﻿  
  
      if (users[username]) {﻿  
        alert('Username already exists!');﻿  
        return;﻿  
      }﻿  
  
      users[username] = { email, password };﻿  
      localStorage.setItem('users', JSON.stringify(users));﻿  
      alert('Registration Successful! Please Login.');﻿  
      showPage('login-screen');﻿  
    }﻿  
  
    function login() {﻿  
      const username = document.getElementById('login-username').value;﻿  
      const password = document.getElementById('login-password').value;﻿  
  
      if (!users[username] || users[username].password !== password) {﻿  
        alert('Invalid Username or Password!');﻿  
        return;﻿  
      }﻿  
  
      loggedInUser = username;﻿  
      alert(`Welcome, ${username}!`);﻿  
      showPage('marketplace-screen');﻿  
      updateNotifications();﻿  
    }﻿  
  
    function sellProduct() {﻿  
      const name = document.getElementById('product-name').value;﻿  
      const quality = document.getElementById('product-quality').value;﻿  
      const quantity = document.getElementById('product-quantity').value;﻿  
  
      if (!name || !quality || !quantity) {﻿  
        alert('Please fill all fields!');﻿  
        return;﻿  
      }﻿  
  
      products.push({ name, quality, quantity, seller: loggedInUser });﻿  
      localStorage.setItem('products', JSON.stringify(products));﻿  
      alert('Product listed for sale!');﻿  
      showPage('marketplace-screen');﻿  
      updateSellerProducts();﻿  
    }﻿  
  
    function displayProducts() {﻿  
      const productList = document.getElementById('product-list');﻿  
      productList.innerHTML = '';﻿  
  
      products.forEach((product, index) => {﻿  
        const productDiv = document.createElement('div');﻿  
        productDiv.innerHTML = `﻿  
          <p><b>Name:</b> ${product.name}</p>﻿  
          <p><b>Quality:</b> ${product.quality}</p>﻿  
          <p><b>Quantity:</b> ${product.quantity}</p>﻿  
          <p><b>Seller:</b> ${product.seller}</p>﻿  
          <button onclick="buyProduct(${index})">Buy</button>﻿  
          <hr>﻿  
        `;﻿  
        productList.appendChild(productDiv);﻿  
      });﻿  
    }﻿  
  
    function buyProduct(index) {﻿  
      const product = products[index];﻿  
      const quantity = prompt(`Enter quantity to buy (Available: ${product.quantity}):`);﻿  
  
      if (quantity > product.quantity) {﻿  
        alert('Insufficient quantity available!');﻿  
        return;﻿  
      }﻿  
  
      product.quantity -= quantity;﻿  
      if (product.quantity === 0) products.splice(index, 1);﻿  
  
      localStorage.setItem('products', JSON.stringify(products));﻿  
      alert('Order successful!');﻿  
  
      // Notification for the buyer and seller﻿  
      notifyBuyer(product, quantity);﻿  
      notifySeller(product, quantity);﻿  
  
      displayProducts();﻿  
    }﻿  
  
    function notifyBuyer(product, quantity) {﻿  
      const buyerNotification = `Your order for ${quantity} of ${product.name} has been confirmed!`;﻿  
      if (!notifications[loggedInUser]) {﻿  
        notifications[loggedInUser] = [];﻿  
      }﻿  
      notifications[loggedInUser].push(buyerNotification);﻿  
      localStorage.setItem('notifications', JSON.stringify(notifications));﻿  
  
      updateNotifications();﻿  
    }﻿  
  
    function notifySeller(product, quantity) {﻿  
      const sellerNotification = `${loggedInUser} has purchased ${quantity} of your product: ${product.name}.`;﻿  
      if (!notifications[product.seller]) {﻿  
        notifications[product.seller] = [];﻿  
      }﻿  
      notifications[product.seller].push(sellerNotification);﻿  
      localStorage.setItem('notifications', JSON.stringify(notifications));﻿  
    }﻿  
  
    function updateNotifications() {﻿  
      const notificationArea = document.getElementById('notification-area');﻿  
      notificationArea.innerHTML = '';﻿  
  
      if (notifications[loggedInUser]) {﻿  
        notifications[loggedInUser].forEach(notification => {﻿  
          const notificationDiv = document.createElement('div');﻿  
          notificationDiv.classList.add('notification');﻿  
          notificationDiv.textContent = notification;﻿  
          notificationArea.appendChild(notificationDiv);﻿  
        });﻿  
      }﻿  
    }﻿  
  
    function updateSellerProducts() {﻿  
      const sellerProductsList = document.getElementById('seller-products-list');﻿  
      sellerProductsList.innerHTML = '';﻿  
  
      products.filter(product => product.seller === loggedInUser).forEach((product, index) => {﻿  
        const productDiv = document.createElement('div');﻿  
        productDiv.innerHTML = `﻿  
          <p><b>Name:</b> ${product.name}</p>﻿  
          <p><b>Quality:</b> ${product.quality}</p>﻿  
          <p><b>Quantity:</b> ${product.quantity}</p>﻿  
          <button onclick="editProduct(${index})">Edit</button>﻿  
          <button onclick="removeProduct(${index})">Remove</button>﻿  
          <hr>﻿  
        `;﻿  
        sellerProductsList.appendChild(productDiv);﻿  
      });﻿  
    }﻿  
  
    function editProduct(index) {﻿  
      const product = products[index];﻿  
      const newName = prompt('Enter new product name:', product.name);﻿  
      const newQuality = prompt('Enter new product quality:', product.quality);﻿  
      const newQuantity = prompt('Enter new product quantity:', product.quantity);﻿  
  
      if (newName) product.name = newName;﻿  
      if (newQuality) product.quality = newQuality;﻿  
      if (newQuantity) product.quantity = newQuantity;﻿  
  
      localStorage.setItem('products', JSON.stringify(products));﻿  
      updateSellerProducts();﻿  
    }﻿  
  
    function removeProduct(index) {﻿  
      products.splice(index, 1);﻿  
      localStorage.setItem('products', JSON.stringify(products));﻿  
      updateSellerProducts();﻿  
    }﻿  
  
    // Initialize the marketplace and show available products﻿  
    displayProducts();﻿  
  </script>﻿  
</body>﻿  
</html>