

Code Implementation Report

E-Commerce Management System

Internet Application Development Lab Project

Prepared Document containing full source code implementation.

February 26, 2026

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1 index.html

```
<!DOCTYPE html>
<html>
<head>
  <title>E-Commerce Management System</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>

<!-- Navigation -->
<div class="nav-bar">
  <a href="index.html"><b>Home</b></a>
  <a href="registration.html">Registration</a>
  <a href="search.html">Search Products</a>
  <a href="order.html">Place Order</a>
  <a href="admin.html">Admin Panel</a>
  <a href="payment.html">Payment</a>
  <a href="help.html">Help</a>
</div>

<div class="page">

  <h1>E-Commerce Management System</h1>
  <p>Internet Application Development Lab Project</p>
  <hr>

  <h2>Welcome to Our Store</h2>
  <p>Manage customers, products, orders, and inventory all in one place.</p>

  <!-- Features laid out in a simple table -->
  <table border="1" cellpadding="10" cellspacing="0" width="100%">
    <tr>
      <td valign="top" width="33%">
        <h3>Customer Management</h3>
        <p>Register new customers and manage their information</p>
        <a href="registration.html">Register Now</a>
      </td>
      <td valign="top" width="33%">
        <h3>Product Search</h3>
        <p>Search and browse products by category, size, and color</p>
        <a href="search.html">Search Products</a>
      </td>
      <td valign="top" width="33%">
        <h3>Order Processing</h3>
        <p>Create and manage customer orders</p>
        <a href="order.html">Place Order</a>
      </td>
    </tr>
    <tr>
      <td valign="top">
```

```

        <h3>Admin Panel</h3>
        <p>Role-based access control for inventory and product management</p>
        <a href="admin.html">Admin Panel</a>
    </td>
    <td valign="top">
        <h3>Payment Processing</h3>
        <p>Process payments via card, cash, or bank transfer</p>
        <a href="payment.html">Process Payment</a>
    </td>
    <td valign="top">
        <h3>User Guide</h3>
        <p>Step-by-step instructions and database schema reference</p>
        <a href="help.html">View Help</a>
    </td>
</tr>
</table>

<br>
<h3>Need Help?</h3>
<p>Navigate through the menu above to access different functionalities:</p>
<ul>
    <li><b>Registration:</b> Add new customers to the system
        (auto-generated IDs from 1001)</li>
    <li><b>Search:</b> Find products with partial name matching
        and multi-filter support</li>
    <li><b>Order:</b> Create new orders for customers with
        multiple product items</li>
    <li><b>Admin:</b> Role-based access - Admin, Manager, Sales Staff,
        Inventory Manager, Read Only</li>
    <li><b>Payment:</b> Process order payments via Credit/Debit Card,
        Cash, or Bank Transfer</li>
    <li><b>Help:</b> View the full <a href="help.html">User Guide</a>
        for detailed instructions</li>
</ul>

</div>

<div class="footer">
    &copy; 2026 IAD Lab Project - E-Commerce System
</div>

</body>
</html>

```

2 admin.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Admin Panel</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>

<!-- Navigation -->
<div class="nav-bar">
  <a href="index.html">Home</a>
  <a href="registration.html">Registration</a>
  <a href="search.html">Search Products</a>
  <a href="order.html">Place Order</a>
  <a href="admin.html"><b>Admin Panel</b></a>
  <a href="payment.html">Payment</a>
  <a href="help.html">Help</a>
</div>

<div class="page">

  <h1>Admin Panel</h1>
  <h2>Role-Based Access Control</h2>
  <p>Login to access administrative functions.</p>

  <!-- Login Form -->
  <form id="loginForm">
    <fieldset>
      <legend>Administrator Login</legend>
      <table cellpadding="6" cellspacing="0">
        <tr>
          <td><b>Username: <span class="req">*</span></b></td>
          <td><input type="text" id="username" name="username" required
            placeholder="Enter username"></td>
        </tr>
        <tr>
          <td><b>Password: <span class="req">*</span></b></td>
          <td><input type="password" id="password" name="password" required
            placeholder="Enter password"></td>
        </tr>
        <tr>
          <td><b>Role: <span class="req">*</span></b></td>
          <td>
            <select id="role" name="role" required>
              <option value="">-- Select Role --</option>
              <option value="Admin">Admin (Full Access)</option>
              <option value="Manager">Manager (Operational Mgmt)</option>
              <option value="Sales_Staff">Sales Staff (Customer)</option>
              <option value="Inventory_Manager">Inventory (Stock)</option>
            </select>
          </td>
        </tr>
      </table>
    </fieldset>
  </form>
</div>
```

```

        <option value="Read_Only">Read Only (View Only)</option>
    </select>
</td>
</tr>
<tr>
<td></td>
<td>
    <button type="submit">Login</button>
    <button type="reset" class="secondary">Clear</button>
</td>
</tr>
</table>
</fieldset>
</form>

<!-- Dashboard (shown after login) -->
<div id="adminDashboard" style="display:none;">
    <h3>Dashboard - <span id="currentRole"></span></h3>
    <p><i id="roleDescription"></i></p>
    <hr>

    <!-- ===== ADMIN ROLE ===== -->
    <div id="adminSection" style="display:none;">

        <h4>Product Management (CRUD)</h4>
        <table cellpadding="6" cellspacing="0">
            <tr>
                <td><b>Product Name:</b></td>
                <td><input type="text" id="adminProductName"
                    placeholder="Enter product name"></td>
            </tr>
            <tr>
                <td><b>Price:</b></td>
                <td><input type="number" id="productPrice" step="0.01"
                    min="0.01" placeholder="0.00" style="width:120px"></td>
            </tr>
            <tr>
                <td><b>Category:</b></td>
                <td>
                    <select id="productCategory">
                        <option value="">-- Select --</option>
                        <option value="1">Electronics</option>
                        <option value="2">Clothing</option>
                        <option value="3">Accessories</option>
                        <option value="4">Home & Garden</option>
                    </select>
                </td>
            </tr>
            <tr>
                <td></td>
                <td>

```

```

        <button type="button">Create Product</button>
        <button type="button" class="secondary">Update Product</button>
        <button type="button" class="danger">Delete Product</button>
    </td>
</tr>
</table>

<br>
<h4>Database Objects Management</h4>
<p>
    <button type="button">Create Table</button>
    <button type="button">Create View</button>
    <button type="button">Create Procedure</button>
    <button type="button">Create Trigger</button>
    <button type="button" class="secondary">Alter Table</button>
    <button type="button" class="danger">Drop Objects</button>
</p>
</div>

<!-- ===== MANAGER ROLE ===== -->
<div id="managerSection" style="display:none;">
    <h4>Customer Management (Read, Insert, Update)</h4>
    <table cellpadding="6" cellspacing="0">
        <tr>
            <td><b>Customer ID:</b></td>
            <td><input type="number" id="mgrCustomerId"
                placeholder="Enter customer ID"></td>
        </tr>
        <tr>
            <td><b>Full Name:</b></td>
            <td><input type="text" id="mgrCustomerName"
                placeholder="Customer name"></td>
        </tr>
        <tr>
            <td></td>
            <td>
                <button type="button">View Customer</button>
                <button type="button">Add Customer</button>
                <button type="button" class="secondary">Update Customer</button>
            </td>
        </tr>
    </table>
</div>

<!-- ===== READ ONLY ROLE ===== -->
<div id="readOnlySection" style="display:none;">

    <h4>View All Data (Read Only Access)</h4>
    <p><i>Suitable for analysts, auditors, and reporting personnel</i></p>
    <table cellpadding="6" cellspacing="0">
        <tr>

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```

        <td><b>Select Table to View:</b></td>
        <td>
            <select id="readOnlyTable">
                <option value="">-- Select Table --</option>
                <option value="Customer">Customer</option>
                <option value="Products">Products</option>
                <option value="Orders">Orders</option>
            </select>
        </td>
    </tr>
    <tr>
        <td></td>
        <td><button type="button">View Selected Table</button></td>
    </tr>
</table>

<br>
<h4>Data Export</h4>
<p>
    <button type="button" class="secondary">Export to CSV</button>
    <button type="button" class="secondary">Export to Excel</button>
    <button type="button" class="secondary">Export to PDF</button>
</p>
</div>

</div>

<div class="info-box">
    <h3>Role Permissions</h3>
    <ul>
        <li><b>Admin:</b> Full CRUD permissions on all tables.</li>
        <li><b>Manager:</b> Read and update permissions on most tables.</li>
        <li><b>Sales Staff:</b> Can create and view customer orders.</li>
        <li><b>Inventory Manager:</b> Specialized role for stock control.</li>
        <li><b>Read Only:</b> View-only access to all tables.</li>
    </ul>
</div>

</div>

<div class="footer">
    &copy; 2026 IAD Lab Project - E-Commerce System
</div>

<script>
    var roleInfo = {
        'Admin': {
            title: 'Administrator',
            description: 'Full CRUD permissions on all tables. Complete oversight.'
        },
        'Manager': {

```

```

        title: 'Manager',
        description: 'Read and update permissions on most tables.'
    },
    'Sales_Staff': {
        title: 'Sales Staff',
        description: 'Can create and view customer orders, manage info.'
    },
    'Inventory_Manager': {
        title: 'Inventory Manager',
        description: 'Specialized role for inventory and stock control.'
    },
    'Read_Only': {
        title: 'Read Only',
        description: 'View-only access to all tables for reporting.'
    }
};

document.getElementById('loginForm').addEventListener('submit', function(e) {
    e.preventDefault();

    var username = document.getElementById('username').value;
    var password = document.getElementById('password').value;
    var role      = document.getElementById('role').value;

    if (!username || !password || !role) {
        alert('Please fill in all fields');
        return;
    }

    document.getElementById('loginForm').style.display = 'none';
    document.getElementById('adminDashboard').style.display = 'block';

    document.getElementById('currentRole').textContent =
        roleInfo[role].title;
    document.getElementById('roleDescription').textContent =
        roleInfo[role].description;

    document.getElementById('adminSection').style.display = 'none';
    document.getElementById('managerSection').style.display = 'none';
    document.getElementById('readOnlySection').style.display = 'none';

    if (role === 'Admin')
        document.getElementById('adminSection').style.display = 'block';
    if (role === 'Manager')
        document.getElementById('managerSection').style.display = 'block';
    if (role === 'Read_Only')
        document.getElementById('readOnlySection').style.display = 'block';
});
</script>
</body>
</html>

```

3 registration.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Customer Registration</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>

<!-- Navigation -->
<div class="nav-bar">
  <a href="index.html">Home</a>
  <a href="registration.html"><b>Registration</b></a>
  <a href="search.html">Search Products</a>
  <a href="order.html">Place Order</a>
  <a href="admin.html">Admin Panel</a>
  <a href="payment.html">Payment</a>
  <a href="help.html">Help</a>
</div>

<div class="page">

  <h1>Customer Registration</h1>
  <h2>Register New Customer</h2>
  <p>Fill in the details below to create a new customer account.</p>

  <form id="registrationForm">
    <table cellpadding="8" cellspacing="0">
      <tr>
        <td><b>Full Name: <span class="req">*</span></b></td>
        <td>
          <input type="text" id="fullname" name="fullname" required
            placeholder="Enter full name (min 2 chars)">
          <br><small id="nameHint">Minimum 2 characters required</small>
        </td>
      </tr>
      <tr>
        <td><b>Email Address: <span class="req">*</span></b></td>
        <td>
          <input type="email" id="email" name="email" required
            placeholder="example@email.com">
          <br><small>Must be a valid email format</small>
        </td>
      </tr>
      <tr>
        <td><b>Phone Number: <span class="req">*</span></b></td>
        <td>
          <input type="tel" id="phone" name="phone" required
            placeholder="Enter phone number">
          <br><small>Contact number for customer</small>
        </td>
      </tr>
    </table>
  </form>
</div>
```

```

        </td>
    </tr>
    <tr>
        <td></td>
        <td>
            <button type="submit">Register Customer</button>
            <button type="reset" class="secondary">Clear Form</button>
            <a href="index.html">Cancel</a>
        </td>
    </tr>
</table>
</form>

<div class="info-box">
    <h3>Registration Information</h3>
    <ul>
        <li>Customer ID will be auto-generated starting from 1001</li>
        <li>Email must be unique in the system</li>
        <li>All fields marked with <span class="req">*</span> are required</li>
    </ul>
</div>

```

```
</div>
```

```

<div class="footer">
    &copy; 2026 IAD Lab Project - E-Commerce System
</div>

```

```

<script>
    var nextCustomerId = 1001;

    document.getElementById('registrationForm').addEventListener('submit', function(e) {
        e.preventDefault();

        var fullname = document.getElementById('fullname').value.trim();
        var email     = document.getElementById('email').value.trim();
        var phone     = document.getElementById('phone').value.trim();
        var errors    = [];

        if (fullname.length < 2) {
            errors.push('Full Name must be at least 2 characters.');
```

```

    }

    if (errors.length > 0) {
        alert('Please correct the following errors:\n\n' + errors.join('\n'));
        return;
    }

    var assignedId = nextCustomerId++;
    alert('Customer registered successfully!\nCustomer ID: ' + assignedId +
        '\nName: ' + fullname + '\nEmail: ' + email);
    this.reset();
});

document.getElementById('fullname').addEventListener('input', function() {
    var hint = document.getElementById('nameHint');
    if (this.value.trim().length < 2 && this.value.trim().length > 0) {
        hint.style.color = 'red';
        hint.textContent = 'Name too short - minimum 2 characters required';
    } else {
        hint.style.color = '#777';
        hint.textContent = 'Minimum 2 characters required';
    }
});
</script>
</body>
</html>

```

4 search.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Search Products</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>

<!-- Navigation -->
<div class="nav-bar">
  <a href="index.html">Home</a>
  <a href="registration.html">Registration</a>
  <a href="search.html"><b>Search Products</b></a>
  <a href="order.html">Place Order</a>
  <a href="admin.html">Admin Panel</a>
  <a href="payment.html">Payment</a>
  <a href="help.html">Help</a>
</div>

<div class="page">

  <h1>Product Search</h1>
  <h2>Find Products</h2>
  <p>Search for products using partial name matching and filters.</p>

  <form id="searchForm">
    <table cellpadding="8" cellspacing="0">
      <tr>
        <td><b>Product Name:</b></td>
        <td>
          <input type="text" id="productName" name="productName"
            placeholder="Enter product name (partial match)">
          <br><small>Search finds all products containing this text</small>
        </td>
      </tr>
      <tr>
        <td><b>Category:</b></td>
        <td>
          <select id="category" name="category">
            <option value="">-- All Categories --</option>
            <option value="1">Electronics</option>
            <option value="2">Clothing</option>
            <option value="3">Accessories</option>
            <option value="4">Home & Garden</option>
          </select>
        </td>
      </tr>
      <tr>
        <td><b>Size:</b></td>
```

```

        <td>
            <select id="size" name="size">
                <option value="">-- Any Size --</option>
                <option value="Small">Small</option>
                <option value="Medium">Medium</option>
                <option value="Large">Large</option>
            </select>
        </td>
    </tr>
    <tr>
        <td><b>Color:</b></td>
        <td>
            <select id="color" name="color">
                <option value="">-- Any Color --</option>
                <option value="White">White</option>
                <option value="Black">Black</option>
                <option value="Gray">Gray</option>
            </select>
        </td>
    </tr>
    <tr>
        <td><b>Min Price:</b></td>
        <td><input type="number" id="minPrice" name="minPrice"
            step="0.01" min="0" placeholder="0.00"></td>
    </tr>
    <tr>
        <td><b>Max Price:</b></td>
        <td><input type="number" id="maxPrice" name="maxPrice"
            step="0.01" min="0" placeholder="9999.99"></td>
    </tr>
    <tr>
        <td></td>
        <td>
            <button type="submit">Search Products</button>
            <button type="reset" class="secondary">Clear Filters</button>
        </td>
    </tr>
</table>
</form>

<hr>
<h3>Search Results</h3>
<p id="resultsInfo">Results will appear here after search.</p>

<table class="data" id="resultsTable">
    <thead>
        <tr>
            <th>ID</th>
            <th>Product Name</th>
            <th>Category</th>
            <th>Price</th>
        </tr>
    </thead>

```

```

        <th>Size</th>
        <th>Color</th>
        <th>Actions</th>
    </tr>
</thead>
<tbody>
    <tr>
        <td colspan="7" align="center"><i>No products found.</i></td>
    </tr>
</tbody>
</table>

```

```
</div>
```

```

<div class="footer">
    &copy; 2026 IAD Lab Project - E-Commerce System
</div>

```

```

<script>
    var sampleProducts = [
        { id: 1001, name: 'White T-Shirt', category: 'Clothing', price: 799,
          size: 'Medium', color: 'White' },
        { id: 1002, name: 'Formal Shirt', category: 'Clothing', price: 1299,
          size: 'Large', color: 'Black' },
        { id: 1003, name: 'Polo Shirt', category: 'Clothing', price: 999,
          size: 'Small', color: 'Gray' },
        { id: 1004, name: 'Wireless Headphones', category: 'Electronics', price: 4999,
          size: 'Medium', color: 'Black' },
        { id: 1005, name: 'Charging Cable', category: 'Accessories', price: 299,
          size: 'Small', color: 'White' }
    ];

    var categoryNames = {
        '1': 'Electronics', '2': 'Clothing',
        '3': 'Accessories', '4': 'Home & Garden'
    };

    document.getElementById('searchForm').addEventListener('submit', function(e) {
        e.preventDefault();

        var nameFilter = document.getElementById('productName').value.trim().toLowerCase();
        var categoryFilter = document.getElementById('category').value;
        var sizeFilter = document.getElementById('size').value;
        var colorFilter = document.getElementById('color').value;
        var minPrice = parseFloat(document.getElementById('minPrice').value) || 0;
        var maxPrice = parseFloat(document.getElementById('maxPrice').value) || Infinity;
        var selectedCat = categoryNames[categoryFilter] || '';

        var results = sampleProducts.filter(function(p) {
            if (nameFilter && p.name.toLowerCase().indexOf(nameFilter) === -1)
                return false;

```

```

        if (selectedCat && p.category !== selectedCat) return false;
        if (sizeFilter && p.size !== sizeFilter) return false;
        if (colorFilter && p.color !== colorFilter) return false;
        if (p.price < minPrice || p.price > maxPrice) return false;
        return true;
    });

    var tbody = document.querySelector('#resultsTable tbody');
    var info = document.getElementById('resultsInfo');

    if (results.length === 0) {
        tbody.innerHTML = '<tr><td colspan="7" align="center">' +
            '<i>No products found matching your criteria.</i></td></tr>';
        info.textContent = 'No results found.';
    } else {
        info.textContent = results.length + ' product(s) found.';
        var html = '';
        for (var i = 0; i < results.length; i++) {
            var p = results[i];
            html += '<tr>';
            html += '<td>' + p.id + '</td>';
            html += '<td>' + p.name + '</td>';
            html += '<td>' + p.category + '</td>';
            html += '<td>PKR ' + p.price.toFixed(2) + '</td>';
            html += '<td>' + p.size + '</td>';
            html += '<td>' + p.color + '</td>';
            html += '<td><a href="order.html">Order</a></td>';
            html += '</tr>';
        }
        tbody.innerHTML = html;
    }
});

document.getElementById('searchForm').addEventListener('reset', function() {
    var tbody = document.querySelector('#resultsTable tbody');
    tbody.innerHTML = '<tr><td colspan="7" align="center">' +
        '<i>No products found. Please search above.</i></td></tr>';
    document.getElementById('resultsInfo').textContent = 'Results will appear here.';
});
</script>
</body>
</html>

```

5 order.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Place Order</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>

<!-- Navigation -->
<div class="nav-bar">
  <a href="index.html">Home</a>
  <a href="registration.html">Registration</a>
  <a href="search.html">Search Products</a>
  <a href="order.html"><b>Place Order</b></a>
  <a href="admin.html">Admin Panel</a>
  <a href="payment.html">Payment</a>
  <a href="help.html">Help</a>
</div>

<div class="page">

  <h1>Place New Order</h1>
  <h2>Create New Order</h2>
  <p>Select customer and add products to create an order.</p>

  <form id="orderForm">

    <!-- Customer Information -->
    <fieldset>
      <legend>Customer Information</legend>
      <table cellpadding="6" cellspacing="0">
        <tr>
          <td><b>Customer ID: <span class="req">*</span></b></td>
          <td>
            <input type="number" id="customerId" name="customerId" required
              placeholder="Enter customer ID">
            <br><small>Enter ID or <a href="registration.html">register</a></small>
          </td>
        </tr>
        <tr>
          <td><b>Customer Name:</b></td>
          <td><input type="text" id="customerName" name="customerName"
            readonly placeholder="Auto-filled"></td>
        </tr>
        <tr>
          <td><b>Order Date: <span class="req">*</span></b></td>
          <td><input type="datetime-local" id="orderDate" name="orderDate"
            required></td>
        </tr>
      </table>
    </fieldset>
  </form>
</div>
```

```

    </table>
</fieldset>

<!-- Order Items -->
<fieldset>
    <legend>Order Items</legend>

    <div id="orderItems">
        <table cellpadding="6" cellspacing="0">
            <tr>
                <td><b>Product ID: <span class="req">*</span></b></td>
                <td><input type="number" id="productId1" name="productId[]"
                    required placeholder="Product ID"></td>
                <td><b>Qty: <span class="req">*</span></b></td>
                <td><input type="number" id="quantity1" name="quantity[]"
                    min="1" value="1" required style="width:80px"></td>
                <td><b>Unit Price: <span class="req">*</span></b></td>
                <td><input type="number" id="unitPrice1" name="unitPrice[]"
                    step="0.01" min="0.01" required
                    placeholder="0.00" style="width:100px"></td>
            </tr>
        </table>
    </div>

    <br>
    <button type="button" class="secondary" onclick="addOrderItem()">
        + Add Another Product
    </button>
</fieldset>

<!-- Order Summary -->
<fieldset>
    <legend>Order Summary</legend>
    <table cellpadding="6" cellspacing="0">
        <tr>
            <td><b>Order Status:</b></td>
            <td>
                <select id="orderStatus" name="orderStatus">
                    <option value="Pending" selected>Pending</option>
                    <option value="Processing">Processing</option>
                    <option value="Shipped">Shipped</option>
                    <option value="Delivered">Delivered</option>
                    <option value="Cancelled">Cancelled</option>
                </select>
            </td>
        </tr>
        <tr>
            <td><b>Total Amount:</b></td>
            <td>
                <input type="number" id="totalAmount" name="totalAmount"
                    step="0.01" readonly placeholder="0.00">
            </td>
        </tr>
    </table>
</fieldset>

```

```

        </td>
    </tr>
</table>
</fieldset>

    <button type="submit">Place Order</button>
    <button type="reset" class="secondary">Clear Form</button>
    <a href="index.html">Cancel</a>
</form>

<div class="info-box">
    <h3>Order Information</h3>
    <ul>
        <li>Order ID will be auto-generated starting from 10001</li>
        <li>Each product can only be added once per order</li>
        <li>Quantity must be at least 1</li>
        <li>Total amount will be calculated automatically</li>
    </ul>
</div>

</div>

<div class="footer">
    &copy; 2026 IAD Lab Project - E-Commerce System
</div>

<script>
    var itemCount = 1;

    function calculateTotal() {
        var quantities = document.querySelectorAll('input[name="quantity[]"]');
        var unitPrices = document.querySelectorAll('input[name="unitPrice[]"]');
        var total = 0;
        for (var i = 0; i < quantities.length; i++) {
            var qty = parseFloat(quantities[i].value) || 0;
            var price = parseFloat(unitPrices[i].value) || 0;
            total += qty * price;
        }
        document.getElementById('totalAmount').value = total.toFixed(2);
    }

    document.getElementById('orderItems').addEventListener('input', function(e) {
        if (e.target.name === 'quantity[]' || e.target.name === 'unitPrice[]') {
            calculateTotal();
        }
    });

    function addOrderItem() {
        itemCount++;
        var div = document.getElementById('orderItems');
        var tbl = document.createElement('table');

```

```

tbl.cellPadding = '6';
tbl.cellSpacing = '0';
tbl.innerHTML =
    '<tr>' +
    '<td><b>Product ID: <span class="req">*</span></b></td>' +
    '<td><input type="number" id="productId' + itemCount + '" ' +
    'name="productId[]" required placeholder="Product ID"></td>' +
    '<td><b>Qty: <span class="req">*</span></b></td>' +
    '<td><input type="number" id="quantity' + itemCount + '" ' +
    'name="quantity[]" min="1" value="1" required style="width:80px"></td>' +
    '<td><b>Unit Price: <span class="req">*</span></b></td>' +
    '<td><input type="number" id="unitPrice' + itemCount + '" ' +
    'name="unitPrice[]" step="0.01" min="0.01" required ' +
    'placeholder="0.00" style="width:100px"></td>' +
    '</tr>';
div.appendChild(tbl);
}

window.addEventListener('DOMContentLoaded', function() {
    var now = new Date();
    now.setMinutes(now.getMinutes() - now.getTimezoneOffset());
    document.getElementById('orderDate').value = now.toISOString().slice(0, 16);
});

document.getElementById('orderForm').addEventListener('submit', function(e) {
    e.preventDefault();
    var customerId = document.getElementById('customerId').value;
    var total      = parseFloat(document.getElementById('totalAmount').value) || 0;

    if (!customerId) {
        alert('Please enter a Customer ID.');
```

6 payment.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Payment Processing</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>

<!-- Navigation -->
<div class="nav-bar">
  <a href="index.html">Home</a>
  <a href="registration.html">Registration</a>
  <a href="search.html">Search Products</a>
  <a href="order.html">Place Order</a>
  <a href="admin.html">Admin Panel</a>
  <a href="payment.html"><b>Payment</b></a>
  <a href="help.html">Help</a>
</div>

<div class="page">

  <h1>Payment Processing</h1>
  <h2>Process Payment</h2>
  <p>Enter order details and payment information.</p>

  <form id="paymentForm">

    <!-- Order Information -->
    <fieldset>
      <legend>Order Information</legend>
      <table cellpadding="6" cellspacing="0">
        <tr>
          <td><b>Order ID: <span class="req">*</span></b></td>
          <td>
            <input type="number" id="orderId" name="orderId" required
              placeholder="Enter order ID">
            <br><small>Order ID starts from 10001</small>
          </td>
        </tr>
        <tr>
          <td><b>Order Amount:</b></td>
          <td><input type="number" id="orderAmount" name="orderAmount"
            step="0.01" readonly placeholder="0.00"></td>
        </tr>
      </table>
    </fieldset>

    <!-- Payment Method -->
    <fieldset>
```

```

<legend>Payment Method</legend>
<table cellpadding="6" cellspacing="0">
  <tr>
    <td><b>Payment Method: <span class="req">*</span></b></td>
    <td>
      <select id="paymentMethod" name="paymentMethod" required
        onchange="showPaymentFields()">
        <option value="">-- Choose Payment Method --</option>
        <option value="CreditCard">Credit Card</option>
        <option value="DebitCard">Debit Card</option>
        <option value="Cash">Cash</option>
        <option value="BankTransfer">Bank Transfer</option>
      </select>
    </td>
  </tr>
</table>
</fieldset>

<!-- Credit/Debit Card Details (hidden by default) -->
<fieldset id="cardDetails" style="display:none;">
  <legend>Card Details</legend>
  <table cellpadding="6" cellspacing="0">
    <tr>
      <td><b>Card Number: <span class="req">*</span></b></td>
      <td><input type="text" id="cardNumber" name="cardNumber"
        placeholder="1234 5678 9012 3456" maxlength="19"></td>
    </tr>
    <tr>
      <td><b>Cardholder Name: <span class="req">*</span></b></td>
      <td><input type="text" id="cardHolder" name="cardHolder"
        placeholder="Name on card"></td>
    </tr>
    <tr>
      <td><b>Expiry Date: <span class="req">*</span></b></td>
      <td><input type="text" id="expiryDate" name="expiryDate"
        placeholder="MM/YY" maxlength="5" style="width:80px"></td>
    </tr>
    <tr>
      <td><b>CVV: <span class="req">*</span></b></td>
      <td><input type="text" id="cvv" name="cvv" placeholder="123"
        maxlength="4" style="width:80px"></td>
    </tr>
  </table>
</fieldset>

<!-- Bank Transfer Details (hidden by default) -->
<fieldset id="bankDetails" style="display:none;">
  <legend>Bank Transfer Details</legend>
  <table cellpadding="6" cellspacing="0">
    <tr>
      <td><b>Bank Name: <span class="req">*</span></b></td>

```

```

        <td><input type="text" id="bankName" name="bankName"
            placeholder="Enter bank name"></td>
    </tr>
    <tr>
        <td><b>Account Number: <span class="req">*</span></b></td>
        <td><input type="text" id="accountNumber" name="accountNumber"
            placeholder="Enter account number"></td>
    </tr>
</table>
</fieldset>

<!-- Cash Payment (hidden by default) -->
<fieldset id="cashDetails" style="display:none;">
    <legend>Cash Payment</legend>
    <table cellpadding="6" cellspacing="0">
        <tr>
            <td><b>Amount Received: <span class="req">*</span></b></td>
            <td><input type="number" id="amountReceived" name="amountReceived"
                step="0.01" min="0" placeholder="0.00"></td>
        </tr>
        <tr>
            <td><b>Change to Return:</b></td>
            <td><input type="number" id="changeAmount" name="changeAmount"
                step="0.01" readonly placeholder="0.00"></td>
        </tr>
    </table>
</fieldset>

<!-- Payment Summary -->
<fieldset>
    <legend>Payment Summary</legend>
    <table cellpadding="6" cellspacing="0">
        <tr>
            <td><b>Payment Status:</b></td>
            <td>
                <select id="paymentStatus" name="paymentStatus">
                    <option value="Pending">Pending</option>
                    <option value="Completed" selected>Completed</option>
                    <option value="Failed">Failed</option>
                    <option value="Refunded">Refunded</option>
                </select>
            </td>
        </tr>
        <tr>
            <td><b>Payment Date:</b></td>
            <td><input type="datetime-local" id="paymentDate"
                name="paymentDate"></td>
        </tr>
        <tr>
            <td><b>Notes:</b></td>
            <td><textarea id="notes" name="notes" rows="3"

```

```

                placeholder="Additional notes"></textarea></td>
            </tr>
        </table>
    </fieldset>

    <button type="submit">Process Payment</button>
    <button type="reset" class="secondary">Clear Form</button>
    <a href="index.html">Cancel</a>
</form>

</div>

<div class="footer">
    &copy; 2026 IAD Lab Project - E-Commerce System
</div>

<script>
    window.addEventListener('DOMContentLoaded', function() {
        var now = new Date();
        now.setMinutes(now.getMinutes() - now.getTimezoneOffset());
        document.getElementById('paymentDate').value = now.toISOString().slice(0, 16);
    });

    function showPaymentFields() {
        var method = document.getElementById('paymentMethod').value;
        document.getElementById('cardDetails').style.display = 'none';
        document.getElementById('bankDetails').style.display = 'none';
        document.getElementById('cashDetails').style.display = 'none';

        if (method === 'CreditCard' || method === 'DebitCard') {
            document.getElementById('cardDetails').style.display = 'block';
        } else if (method === 'BankTransfer') {
            document.getElementById('bankDetails').style.display = 'block';
        } else if (method === 'Cash') {
            document.getElementById('cashDetails').style.display = 'block';
        }
    }

    document.getElementById('amountReceived').addEventListener('input', function() {
        var orderAmount = parseFloat(document.getElementById('orderAmount').value) || 0;
        var received = parseFloat(this.value) || 0;
        var change = received - orderAmount;
        document.getElementById('changeAmount').value =
            change >= 0 ? change.toFixed(2) : '0.00';
    });

    document.getElementById('paymentForm').addEventListener('submit', function(e) {
        e.preventDefault();
        var orderId = document.getElementById('orderId').value;
        var method = document.getElementById('paymentMethod').value;
        var errors = [];
    });

```

```

if (!orderId) errors.push('Order ID is required.');
```

```

if (!method) errors.push('Please select a payment method.');
```

```

if (method === 'Cash') {
    var orderAmt = parseFloat(document.getElementById('orderAmount').value) || 0;
    var received = parseFloat(document.getElementById('amountReceived').value) || 0;
    if (orderAmt > 0 && received < orderAmt) {
        errors.push('Amount received is less than the order amount.');
```

```
    }
}
```

```

if (errors.length > 0) {
    alert('Please correct the following errors:\n\n' + errors.join('\n'));
    return;
}
```

```

var status = document.getElementById('paymentStatus').value;
alert('Payment processed successfully!\nOrder ID: ' + orderId +
    '\nMethod: ' + method + '\nStatus: ' + status);
this.reset();

document.getElementById('cardDetails').style.display = 'none';
document.getElementById('bankDetails').style.display = 'none';
document.getElementById('cashDetails').style.display = 'none';

var now = new Date();
now.setMinutes(now.getMinutes() - now.getTimezoneOffset());
document.getElementById('paymentDate').value = now.toISOString().slice(0, 16);
});
</script>
</body>
</html>
```

7 help.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Help - User Guide</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>

<!-- Navigation -->
<div class="nav-bar">
  <a href="index.html">Home</a>
  <a href="registration.html">Registration</a>
  <a href="search.html">Search Products</a>
  <a href="order.html">Place Order</a>
  <a href="admin.html">Admin Panel</a>
  <a href="payment.html">Payment</a>
  <a href="help.html"><b>Help</b></a>
</div>

<div class="page">

  <h1>User Guide</h1>
  <p>How to use the E-Commerce Management System</p>
  <hr>

  <h2>System Overview</h2>
  <p>This web application manages an e-commerce database system
    with the following key features:</p>

  <h3>1. Customer Registration</h3>
  <p><b>Purpose:</b> Register new customers in the system</p>
  <p><b>How to use:</b></p>
  <ul>
    <li>Navigate to "Customer Registration" from the menu</li>
    <li>Fill in full name (minimum 2 characters)</li>
    <li>Enter a valid email address (must be unique)</li>
    <li>Provide a phone number</li>
    <li>Click "Register Customer" to submit</li>
  </ul>

  <h3>2. Search Products</h3>
  <p><b>Purpose:</b> Find products using various filters</p>
  <p><b>How to use:</b></p>
  <ul>
    <li>Enter product name (supports partial matching)</li>
    <li>Select category, size, and color filters (optional)</li>
    <li>Set price range if needed</li>
    <li>Click "Search Products" to view results</li>
  </ul>

</div>
```

3. Place Order

Purpose: Create new customer orders

How to use:

- Enter existing Customer ID
- Select order date and time
- Add products by entering Product ID, Quantity, and Unit Price
- Click "+ Add Another Product" to add multiple items
- Select order status
- Total amount is calculated automatically
- Click "Place Order" to submit

4. Admin Panel (Role-Based Access)

Purpose: Administrative functions with role-based permissions

How to use:

- Login with username, password, and select role
- Access level depends on role selected

Available Roles:

- Admin:** Full CRUD on all tables. Can create tables, views.
- Manager:** Read and update on most tables.
- Sales Staff:** Can create and view customer orders.
- Inventory Manager:** Full CRUD on Inventory table.
- Read Only:** View-only access to all tables.

5. Payment Processing

Purpose: Process payments for orders

How to use:

- Enter Order ID to process payment
- Select payment method (Credit Card, Debit Card, Cash, Bank Transfer)
- Fill in payment-specific details based on method selected
- Set payment status
- Click "Process Payment" to complete

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8 Lab03.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Lab 03</title>
</head>
<body>

  <h1>Lab 03</h1>

  <h2>Problem Statement</h2>
  <a href="Problem Statement.pdf" download>Download Problem Statement</a>

  <h2>Code Implementation</h2>
  <a href="Code Implementation.pdf" download>Download Code Implementation</a>

  <h2>Sample Output</h2>
  <a href="Sample Outputs.pdf" download>Download Sample Output</a>

  <h2><a href="index.html">Website Demonstration</a></h2>

</body>
</html>
```

9 styles.css

```
/* Simple CSS for E-Commerce Lab Project */
/* Global Styles */

* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

body {
  font-family: Arial, sans-serif;
  line-height: 1.6;
  background-color: #f4f4f4;
}

h1, h2, h3, h4 {
  color: #333;
}

a {
  color: #0066cc;
  text-decoration: none;
}

.container {
  max-width: 1200px;
  margin: 0 auto;
  background-color: #fff;
  min-height: 100vh;
  display: flex;
  flex-direction: column;
}

/* Navigation links */
.nav-bar {
  background-color: #334;
  padding: 10px;
  text-align: center;
}

.nav-bar a {
  color: #fff;
  padding: 8px 14px;
  margin: 0 2px;
}

.nav-bar a:hover {
  background-color: #557;
}
```

```

/* Page wrapper */
.page {
    max-width: 960px;
    margin: 0 auto;
    padding: 20px;
    background-color: #fff;
}

/* Basic table used for layout */
table {
    border-collapse: collapse;
    width: 100%;
}

table.data th, table.data td {
    border: 1px solid #999;
    padding: 6px 10px;
    text-align: left;
}

table.data th {
    background-color: #334;
    color: #fff;
}

table.data tr:nth-child(even) {
    background-color: #f2f2f2;
}

/* Form elements */
input, select, textarea {
    padding: 5px;
    font-size: 14px;
}

input[type="text"], input[type="email"], input[type="tel"],
input[type="number"], input[type="password"], input[type="datetime-local"],
select, textarea {
    width: 250px;
}

button {
    padding: 6px 16px;
    font-size: 14px;
    cursor: pointer;
    background-color: #336;
    color: #fff;
    border: 1px solid #224;
}

```

```

button:hover {
    background-color: #558;
}

button.secondary {
    background-color: #888;
    border-color: #666;
}

button.danger {
    background-color: #c33;
    border-color: #a22;
}

fieldset {
    border: 1px solid #ccc;
    padding: 15px;
    margin-bottom: 15px;
}

legend {
    font-weight: bold;
    padding: 0 5px;
}

/* Info box */
.info-box {
    background-color: #ffffdd;
    border: 1px solid #cccc66;
    padding: 10px;
    margin-top: 20px;
}

/* Footer */
.footer {
    background-color: #334;
    color: #fff;
    text-align: center;
    padding: 10px;
    margin-top: 30px;
}

/* Required asterisk */
.req {
    color: red;
}

/* Small helper text under inputs */
small {
    color: #777;
    font-size: 11px;
}

```

}