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# \*\*Simple E-Commerce Store with POS System\*\*

### \*\*PHP & MySQL Project Documentation\*\*

## \*\*1. Project Overview\*\*

A web-based application combining:

✔ \*\*Online storefront\*\* for customers

✔ \*\*POS (Point of Sale)\*\* for in-store sales

✔ \*\*Admin dashboard\*\* for management

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## \*\*2. Core Features\*\*

### \*\*🛒 Online Store (Customer Side)\*\*

- Browse products by category

- Search & filter products

- Shopping cart & checkout

- User accounts & order history

### \*\*💻 POS System (For Staff)\*\*

- Quick product search (name, barcode, SKU)

- Add/remove items from cart

- Apply discounts & coupons

- Print receipts

- Cash & card payment tracking

### \*\*⚙ Admin Panel\*\*

- Add/edit/delete products

- Manage inventory (stock alerts)

- View sales reports

- Manage users (admin, staff, customers)

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## \*\*3. Database Structure (MySQL)\*\*

### \*\*Main Tables\*\*

| Table | Description |

|---------------|------------|

| `users` | Admins, staff, customers |

| `products` | Product details (name, price, image) |

| `categories` | Product categories |

| `inventory` | Stock management |

| `orders` | Customer orders (online) |

| `transactions` | POS sales records |

| `customers` | Customer info for POS |

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## \*\*4. Technical Stack\*\*

✔ \*\*Frontend:\*\* HTML, CSS, Bootstrap, JavaScript/jQuery

✔ \*\*Backend:\*\* PHP (or Laravel/CodeIgniter)

✔ \*\*Database:\*\* MySQL

✔ \*\*POS Hardware:\*\* Barcode scanner, receipt printer (optional)

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## \*\*5. Screenshot Mockups (Concept)\*\*

(You can add wireframes here)

1. \*\*Online Store Homepage\*\*

2. \*\*POS Interface\*\*

3. \*\*Admin Dashboard\*\*

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## \*\*6. Step-by-Step Development Plan\*\*

### \*\*Phase 1: Basic Setup\*\*

✅ Design database schema

✅ Create admin login system

✅ Build product management

### \*\*Phase 2: Online Store\*\*

✅ Product catalog page

✅ Shopping cart system

✅ Checkout process

### \*\*Phase 3: POS System\*\*

✅ Product search & cart

✅ Receipt generation

✅ Sales reporting

### \*\*Phase 4: Advanced Features\*\*

🔲 Barcode scanning

🔲 Payment gateway (Stripe/PayPal)

🔲 Mobile responsiveness

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## \*\*7. How to Convert to PDF\*\*

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2. \*\*Adjust formatting\*\* (add images, colors, logos)

3. \*\*Export as PDF\*\* (File > Save As > PDF)

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Would you like me to:

🔹 Provide sample PHP code for key features?

🔹 Suggest free templates for the UI?

🔹 Explain the MySQL schema in more detail?

Let me know how you'd like to proceed! 🚀

**Database Design for Simple E-commerce Store with POS**

*(PHP & MySQL Project - Ready for Implementation)*

**📌 Database Schema Overview**

**Database Name:** ecom\_store\_pos  
**Tables:** 10 core tables (expandable)

**📊 Tables Structure**

**1️⃣ users** *(Store admins, staff & customers)*

| **Column** | **Type** | **Description** |
| --- | --- | --- |
| user\_id | INT (PK) | Auto-increment ID |
| username | VARCHAR(50) | Login username |
| password | VARCHAR(255) | Hashed password |
| email | VARCHAR(100) | Unique email |
| role | ENUM | 'admin','staff','customer' |
| created\_at | TIMESTAMP | Account creation date |

**2️⃣ products** *(All sellable items)*

| **Column** | **Type** | **Description** |
| --- | --- | --- |
| product\_id | INT (PK) | Auto-increment ID |
| name | VARCHAR(100) | Product name |
| description | TEXT | Detailed description |
| price | DECIMAL(10,2) | Selling price |
| barcode | VARCHAR(50) | Unique barcode |
| category\_id | INT (FK) | Links to categories |

**3️⃣ categories** *(Product grouping)*

| **Column** | **Type** | **Description** |
| --- | --- | --- |
| category\_id | INT (PK) | Auto-increment ID |
| name | VARCHAR(50) | Category name |
| parent\_id | INT | For subcategories |

**4️⃣ inventory** *(Stock management)*

| **Column** | **Type** | **Description** |
| --- | --- | --- |
| inventory\_id | INT (PK) | Auto-increment ID |
| product\_id | INT (FK) | Links to products |
| quantity | INT | Current stock |
| low\_stock\_threshold | INT | Alert when stock ≤ this |

**5️⃣ orders** *(Customer purchases)*

| **Column** | **Type** | **Description** |
| --- | --- | --- |
| order\_id | INT (PK) | Auto-increment ID |
| user\_id | INT (FK) | Links to users |
| total\_amount | DECIMAL(10,2) | Order total |
| status | ENUM | 'pending','completed','cancelled' |
| created\_at | TIMESTAMP | Order date |

**6️⃣ order\_items** *(Products in each order)*

| **Column** | **Type** | **Description** |
| --- | --- | --- |
| item\_id | INT (PK) | Auto-increment ID |
| order\_id | INT (FK) | Links to orders |
| product\_id | INT (FK) | Links to products |
| quantity | INT | Purchased qty |
| price | DECIMAL(10,2) | Price at time of purchase |

**7️⃣ transactions** *(POS sales records)*

| **Column** | **Type** | **Description** |
| --- | --- | --- |
| transaction\_id | INT (PK) | Auto-increment ID |
| staff\_id | INT (FK) | Links to users (staff) |
| total | DECIMAL(10,2) | Transaction total |
| payment\_method | ENUM | 'cash','card','mobile' |
| timestamp | TIMESTAMP | Sale date/time |

**8️⃣ transaction\_items** *(Products in POS sales)*

| **Column** | **Type** | **Description** |
| --- | --- | --- |
| id | INT (PK) | Auto-increment ID |
| transaction\_id | INT (FK) | Links to transactions |
| product\_id | INT (FK) | Links to products |
| quantity | INT | Sold qty |
| price | DECIMAL(10,2) | Price at sale |

**9️⃣ customers** *(POS walk-in customers)*

| **Column** | **Type** | **Description** |
| --- | --- | --- |
| customer\_id | INT (PK) | Auto-increment ID |
| name | VARCHAR(100) | Customer name |
| phone | VARCHAR(20) | Contact number |
| email | VARCHAR(100) | Optional |

**🔟 payments** *(Payment records)*

| **Column** | **Type** | **Description** |
| --- | --- | --- |
| payment\_id | INT (PK) | Auto-increment ID |
| order\_id | INT (FK) | Links to orders |
| amount | DECIMAL(10,2) | Paid amount |
| method | ENUM | 'cash','card','online' |
| status | ENUM | 'pending','completed','failed' |

**🔗 Relationships Diagram**

*(Paste this in Word and format as a diagram)*

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users

├── 1:M ── orders

│ ├── 1:M ── order\_items ── M:1 ── products

│ └── 1:1 ── payments

│

├── 1:M ── transactions (as staff)

│ └── 1:M ── transaction\_items ── M:1 ── products

│

products

├── 1:1 ── inventory

└── M:1 ── categories

**📝 Sample SQL Queries**

**Create Database**

sql

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CREATE DATABASE ecom\_store\_pos;

USE ecom\_store\_pos;

**Create Products Table**

sql

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CREATE TABLE products (

product\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

description TEXT,

price DECIMAL(10,2) NOT NULL,

barcode VARCHAR(50) UNIQUE,

category\_id INT,

FOREIGN KEY (category\_id) REFERENCES categories(category\_id)

);

**Get Daily POS Sales Report**

sql

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SELECT

DATE(timestamp) AS sale\_date,

COUNT(\*) AS total\_transactions,

SUM(total) AS daily\_revenue

FROM transactions

WHERE DATE(timestamp) = CURDATE()

GROUP BY sale\_date;

**🎨 Recommended Add-ons**

1. **Barcode Scanning:** Add barcode\_type column to products
2. **Discounts:** Add discounts table linked to products
3. **Returns:** Add returns table linked to transactions