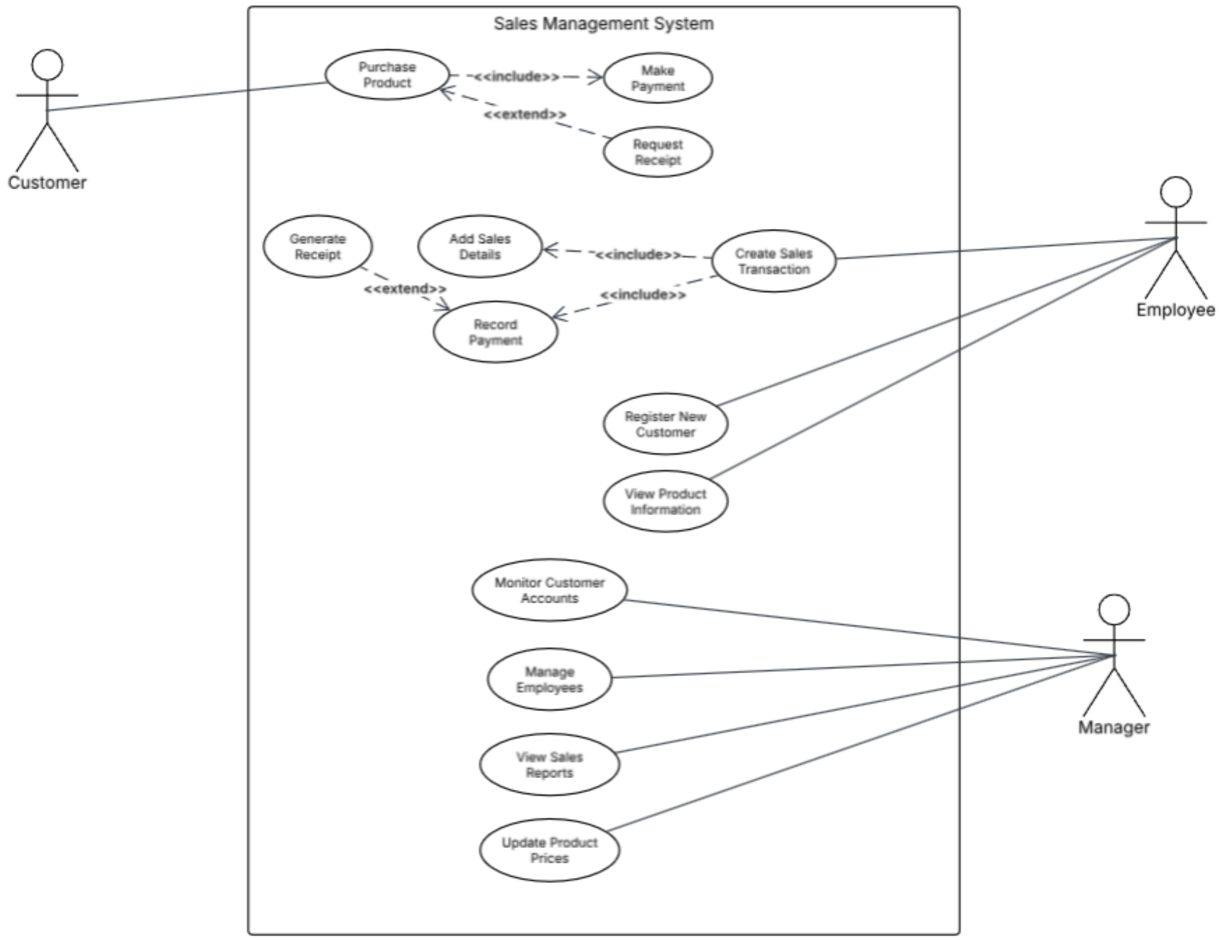


## Customer

1. **As a customer, I want to purchase products, so that I can buy what I need from the store.**

2. **As a customer, I want to make payments, so that I can complete my purchase securely.**

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## Employee

1. **As an employee, I want to register new customers, so that I can keep track of customer information.**

2. **As an employee, I want to create sales transactions, so that I can process customer purchases efficiently.**

3. **As an employee, I want to record payments, so that sales records are accurate.**

4. **As an employee, I want to view product information, so that I can assist customers with their inquiries.**

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### Manager

1. **As a manager, I want to monitor customer accounts, so that I can oversee customer activity and behavior.**

2. **As a manager, I want to manage employees, so that I can assign roles and maintain productivity.**

3. **As a manager, I want to view sales reports, so that I can analyze performance and make informed decisions.**

4. **As a manager, I want to update product prices, so that I can adjust pricing based on market trends.**

# 1. As a Customer, I want to purchase a product so that I can buy what I need from the store.

### Test Case 1: Validate Successful Product Purchase

- **Preconditions:** Customer has an account and is logged into the system.
- **Steps:**
    1. Go to the product catalog.
    2. Select a product to purchase.

3. Add the product to the cart.
4. Proceed to checkout.
5. Confirm the purchase and make payment.

- **Expected Result:** The system records the purchase, processes payment, and generates a receipt.

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### Test Case 2: Validate Purchase with Incomplete Payment

- **Preconditions:** Customer has an account and an active cart.
- **Steps:**
  1. Go to checkout.
  2. Attempt to proceed without completing the payment.
- **Expected Result:** The system displays an error message and prevents checkout until payment is completed.

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## 2. As a Customer, I want to make payments so that I can complete my purchase securely.

#### Test Case 1: Validate Successful Payment Processing

- **Preconditions:** Customer has an account, is logged in, and has an active sales transaction.
- **Steps:**
  1. Go to the checkout page.
  2. Enter payment details (e.g., card number, amount).
  3. Submit the payment.
- **Expected Result:** The system processes the payment, updates the sales transaction status to paid, and redirects to a confirmation page.

#### Test Case 2: Validate Payment with Insufficient Funds

- **Preconditions:** Customer has an account and an active sales transaction.
- **Steps:**
  1. Go to the checkout page.
  2. Enter payment details with insufficient funds.
  3. Submit the payment.
- **Expected Result:** The system displays an error message indicating insufficient funds and prevents the transaction from completing.

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# 3. As an Employee, I want to register new customers so that I can keep track of customer information.

**Test Case 1: Validate Successful Customer Registration**

- **Preconditions:** Employee is logged into the sales system with valid credentials.
- **Steps:**
  1. Access the customer registration module.
  2. Enter new customer details (e.g., name, contact info).
  3. Submit the registration.
- **Expected Result:** The system creates a new customer record and confirms successful registration.

**Test Case 2: Validate Registration with Duplicate Customer**

- **Preconditions:** Employee is logged in, and a customer with the same details already exists.
- **Steps:**
  1. Access the customer registration module.
  2. Enter duplicate customer details.
  3. Submit the registration.
- **Expected Result:** The system displays an error message indicating a duplicate entry and prevents registration.

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# 4. As an Employee, I want to create a sales transaction so that I can process customer purchases efficiently.

### Test Case 1: Validate Creating a New Sales Transaction

- **Preconditions:** Employee is logged into the sales system with valid credentials.
- **Steps:**
    1. Access the sales transaction module.
    2. Enter customer details and select products for purchase.
    3. Record payment details.
    4. Submit the transaction.
- **Expected Result:** The system records the transaction and generates a receipt for the customer.

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### Test Case 2: Validate Creating a Transaction with Missing Information

- **Preconditions:** Employee is logged into the sales system.
- **Steps:**
    1. Access the sales transaction module.
    2. Leave required fields (e.g., customer name or product ID) blank.
    3. Submit the transaction.
- **Expected Result:** The system displays an error message indicating incomplete fields and prevents submission.

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## 5. As an Employee, I want to record payments so that sales records are accurate.

#### Test Case 1: Validate Successful Payment Recording

- **Preconditions:** Employee is logged in, and a sales transaction exists.
- **Steps:**
    1. Access the payment recording module.

    2. Enter payment details (e.g., amount, date).
    3. Submit the payment record.
- **Expected Result:** The system updates the sales transaction with the payment details and marks it as paid.

**Test Case 2: Validate Recording Payment for Non-Existent Transaction**

- **Preconditions:** Employee is logged in.
- **Steps:**
    1. Access the payment recording module.
    2. Enter payment details for a non-existent transaction ID.
    3. Submit the payment record.
- **Expected Result:** The system displays an error message indicating an invalid transaction and prevents recording.

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# 6. As an Employee, I want to view product information so that I can assist customers with their inquiries.

**Test Case 1: Validate Viewing Product Information**

- **Preconditions:** Employee is logged into the sales system.
- **Steps:**
    1. Access the product information module.
    2. Search for a product by name or code.
    3. View the details (e.g., description, unit).
- **Expected Result:** The system displays the requested product information accurately.

**Test Case 2: Validate Viewing Non-Existent Product**

- **Preconditions:** Employee is logged in.
- **Steps:**
    1. Access the product information module.
    2. Search for a non-existent product code.
    3. Attempt to view details.
- **Expected Result:** The system displays a message indicating the product was not found.

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# 7. As a Manager, I want to monitor customer accounts so that I can oversee customer activity and behavior.

**Test Case 1: Validate Monitoring Customer Accounts**

- **Preconditions:** Manager has a valid account and access to the customer monitoring module.
- **Steps:**
    1. Go to the customer accounts section.
    2. Select a customer to monitor.
    3. View their sales history.
- **Expected Result:** The system displays the customer's sales transactions and payment status.

**Test Case 2: Validate Monitoring Without Permissions**

- **Preconditions:** User without manager privileges attempts to access the customer monitoring module.
- **Steps:**
    1. Log in as an employee or customer.
    2. Attempt to access the customer accounts section.
- **Expected Result:** The system displays an "Access Denied" message and restricts monitoring.

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# 8. As a Manager, I want to manage employees so that I can assign roles and maintain productivity.

**Test Case 1: Validate Assigning Employee Roles**

- **Preconditions:** Manager has a valid account and access to the employee management module.
- **Steps:**
    1. Go to the employee management section.
    2. Select an employee.
    3. Assign or update their role (e.g., sales clerk).
- **Expected Result:** The system updates the employee's role and confirms the change.

**Test Case 2: Validate Managing Without Permissions**

- **Preconditions:** User without manager privileges attempts to access the employee management module.
- **Steps:**
    1. Log in as an employee or customer.
    2. Attempt to access the employee management section.
- **Expected Result:** The system displays an "Access Denied" message and restricts management.

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# 9. As a Manager, I want to view sales reports so that I can analyze performance and make informed decisions.

### Test Case 1: Validate Viewing Sales Reports

- **Preconditions:**
  - Manager has a valid account and is logged into the sales management system.
  - Sales data exists in the system.
- **Steps:**
  - Access the **Reports** or **Analytics** section from the main dashboard.
  - Select the desired **date range** (e.g., daily, weekly, monthly).
  - Choose the **report type** (e.g., sales by employee, total revenue, top-selling products).
  - Click **Generate Report**.
- **Expected Result:**
  - The system displays the requested sales report with accurate data.
  - The report includes relevant metrics such as total sales, revenue, and product performance.

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### Test Case 2: Validate Viewing Sales Reports Without Data

- **Preconditions:**
  - Manager is logged into the system.
  - No sales data exists for the selected date range.
- **Steps:**
  - Go to the **Reports** section.
  - Select a **date range** where no transactions were recorded.
  - Click **Generate Report**.

- **Expected Result:**

    - The system displays a message such as *“No data available for the selected period.”*

    - The report page remains accessible for generating other reports.

# 10. As a Manager, I want to update product prices so that I can adjust pricing based on market trends.

**Test Case 1: Validate Updating Product Prices**

- **Preconditions:** Manager has a valid account and access to the price update module.
- **Steps:**
    1. Go to the product prices section.
    2. Select a product.
    3. Enter a new price and effective date.
    4. Submit the update.
- **Expected Result:** The system updates the PriceHistory with the new price and effective date.

**Test Case 2: Validate Updating Price Without Permissions**

- **Preconditions:** User without manager privileges attempts to access the price update module.
- **Steps:**
    1. Log in as an employee or customer.
    2. Attempt to access the product prices section.
- **Expected Result:** The system displays an “Access Denied” message and restricts price updates.