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| Use Case ID | UC1 |
| Actor | Cashier |
| User Requirement | Process Sale |
| User Story | As a cashier, I want to process sale, so that customers can buy goods. |
| Precondition | The cashier desktop be opened. The cashier must be confirmed and authenticated. |
| Post-condition | Storage of sales information. Accurate calculation of taxes. Updating of accounts and stock information. Record draw down to generate tickets. Record approval of payment authorizations. |
| Basic Process | (User) 1. The Cashier Shall starts a new sale.  (System) 2. The CoCoME Shall starts a new sale.  (User) 3. The Cashier Shall enter item identifier.  (System) 4. When starts a new sale, The CoCoME Shall record each sale line item and presents item description and running total. (Loop 3-4 until end of entry)  (User) 5. The Cashier Shall tells customer the total payment.  (System) 6. When end of sale, The CoCoME Shall Presents total payment with taxes calculated.  (User) 7. The Cashier Shall deal with the payment. |
| Extended Process | (Selection) 7a. Cash Payment:   1. The Cashier clicks to execute the operation makeCashPayment, with entering amount   (Selection) 7b. Card Payment:   1. The Cashier clicks to execute the operation makeCardPayment, with entering cardAccountNumber, expiryDate, fee   (Optional) \*a. At any time, the Manager requests an override operation :  1. System enters the Manager authorized mode.  2. The Manager or Cashier performs one Manager mode operation cash balance change resume a suspended sale on another register void a sale etc.  3. The System reverts to Cashier authorization mode.  (Exception Handling) \*b. At any time, System fails:  1. The Cashier restarts System logs in and requests recovery of prior state.  2. The System reconstructs prior state. |

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| Use Case ID | UC2 |
| Actor | Cashier |
| User Requirement | Open Cash Desk |
| User Story | As a cashier, I want to open cash desk, so that customers can buy goods. |
| Precondition | The cashier must be logged in and authenticated. The cash desk must be physically closed and locked. |
| Post-condition | The cash desk is ready for transactions. Sales can be processed. |
| Basic Process | (User) 1. The Cashier initiates the opening of cash desk. (System) 2. The system verifies cashier authorization.  (User) 3. The Cashier inputs opening balance.  (System) 4. The system records the opening of cash desk and logs the initial balance. |
| Extended Process | (Optional) \*a. If there are discrepancies in opening balance:  The Cashier reports discrepancy.  The StoreManager authorizes adjusted opening balance.  (Exception Handling) \*b. If system error occurs during opening:  The Cashier restarts the system.  The Cashier reinitiates the opening process. |

| Use Case ID | UC3 |
| --- | --- |
| Actor | Cashier |
| User Requirement | Close Cash Desk |
| User Story | As a cashier, I want to close the cash desk, so that the day's transactions are concluded securely. |
| Precondition | The cashier is logged in and authenticated. All transactions for the day are completed. |
| Post-condition | The cash desk is closed and secured. Final balance is recorded, and reports are generated. |
| Basic Process | (User) 1. The Cashier initiates the closing of the cash desk. (System) 2. The system calculates the total sales and reconciles the final balance. (User) 3. The Cashier confirms the final balance and notifies the StoreManager. (System) 4. The System logs the closing action and updates records. |
| Extended Process | (Optional) \*a. If there are discrepancies in cash balance: 1. The Cashier reports the discrepancy. 2. The StoreManager or Administrator reviews and authorizes actions to resolve discrepancies. (Exception Handling) \*b. If system error occurs during closing: 1. The Cashier restarts the system. |

| Use Case ID | UC4 |
| --- | --- |
| Actor | StoreManager |
| User Requirement | Order Products |
| User Story | As a store manager, I want to place an order for products, so that inventory is restocked appropriately. |
| Precondition | The store manager is logged in and authenticated. Inventory levels are checked. |
| Post-condition | The order is placed successfully. Inventory records are updated. |
| Basic Process | (User) 1. The StoreManager initiates a new product order. (System) 2. The system displays current inventory levels and suggests reorder quantities. (User) 3. The StoreManager selects products and quantities to order. (System) 4. The system processes the order and updates inventory records. |
| Extended Process | (Optional) a. Administrator approval required for large orders: 1. The StoreManager submits order for approval. 2. The Administrator reviews and approves or modifies the order. (Exception Handling) b. If system error occurs during ordering: 1. The StoreManager restarts the system. 2. The StoreManager reinitiates the order process. |

| Use Case ID | UC5 |
| --- | --- |
| Actor | StoreManager |
| User Requirement | Receive Ordered Product |
| User Story | As a store manager, I want to receive ordered products, so that inventory is updated accurately. |
| Precondition | The store manager is logged in and authenticated. An order has been placed and shipped. |
| Post-condition | The products are received, and inventory records are updated. Discrepancies (if any) are reported. |
| Basic Process | (User) 1. The StoreManager initiates the receipt of products. (System) 2. The system displays the details of the order to be received. (User) 3. The StoreManager verifies and confirms the received quantities. (System) 4. The system updates the inventory records and closes the purchase order. |
| Extended Process | (Optional) a. Administrator involvement for discrepancies: 1. The StoreManager reports discrepancies. 2. The Administrator reviews and authorizes necessary corrections. (Exception Handling) b. If system error occurs during receiving: 1. The StoreManager restarts the system. 2. The StoreManager reinitiates the receiving process. |

| Use Case ID | UC6 |
| --- | --- |
| Actor | StoreManager |
| User Requirement | Show Stock Reports |
| User Story | As a store manager, I want to view stock reports, so that I can make informed inventory decisions. |
| Precondition | The store manager is logged in and authenticated. Stock data is up-to-date. |
| Post-condition | The stock report is displayed and can be analyzed for decision-making. |
| Basic Process | (User) 1. The StoreManager requests to view stock reports. (System) 2. The system retrieves and displays current stock levels and history. (User) 3. The StoreManager reviews the stock information. (System) 4. The system logs the viewing action for auditing purposes. |
| Extended Process | (Optional) a. Administrator customization: 1. The Administrator configures report templates. 2. The StoreManager views customized stock reports. (Exception Handling) b. If system error occurs during report generation: 1. The StoreManager restarts the system. 2. The StoreManager reinitiates the report request. |

| Use Case ID | UC7 |
| --- | --- |
| Actor | StoreManager |
| User Requirement | Change Price |
| User Story | As a store manager, I want to change the price of items, so that pricing is competitive and accurate. |
| Precondition | The store manager is logged in and authenticated. Current price data is available. |
| Post-condition | The item's price is updated in the system. |
| Basic Process | (User) 1. The StoreManager selects an item to change the price. (System) 2. The system displays current pricing details. (User) 3. The StoreManager enters the new price. (System) 4. The system updates the price and logs the change. |
| Extended Process | (Optional) a. Administrator approval for significant changes: 1. The StoreManager submits price change for approval. 2. The Administrator reviews and approves the change. (Exception Handling) b. If system error occurs during price update: 1. The StoreManager restarts the system. 2. The StoreManager reinitiates the price change process. |

| Use Case ID | UC8 |
| --- | --- |
| Actor | StoreManager |
| User Requirement | List Suppliers |
| User Story | As a store manager, I want to view all suppliers, so that I can manage supplier relationships effectively. |
| Precondition | The store manager is logged in and authenticated. Supplier data is available. |
| Post-condition | The list of suppliers is displayed for review. |
| Basic Process | (User) 1. The StoreManager requests to view the supplier list. (System) 2. The system retrieves and displays all supplier details. (User) 3. The StoreManager reviews the supplier information. (System) 4. The system logs the viewing action. |
| Extended Process | (Optional) a. Administrator updates supplier info: 1. The Administrator makes updates to supplier details. 2. The StoreManager views the updated list. (Exception Handling) b. If system error occurs during retrieval: 1. The StoreManager restarts the system. 2. The StoreManager reinitiates the request to view suppliers. |

| Use Case ID | UC9 |
| --- | --- |
| Actor | StoreManager |
| User Requirement | Open Store |
| User Story | As a store manager, I want to open the store, so that it is ready for business operations. |
| Precondition | The store manager is logged in and authenticated. All security and operational checks are completed. |
| Post-condition | The store is opened and ready for customers. |
| Basic Process | (User) 1. The StoreManager performs security checks and unlocks the store. (System) 2. The system confirms readiness for operations. (User) 3. The StoreManager activates store systems and utilities. (System) 4. The system logs the store opening action. |
| Extended Process | (Optional) a. Administrator performs additional setup: 1. The Administrator configures system settings for the day. 2. The StoreManager verifies the setup. (Exception Handling) b. If system error occurs during opening: 1. The StoreManager restarts the system. 2. The StoreManager reinitiates the store opening process. |

| Use Case ID | UC10 |
| --- | --- |
| Actor | StoreManager |
| User Requirement | Close Store |
| User Story | As a store manager, I want to close the store, so that all operations are ended safely and securely. |
| Precondition | The store manager is logged in and authenticated. All business operations for the day are completed. |
| Post-condition | The store is closed, secured, and systems are shut down properly. |
| Basic Process | (User) 1. The StoreManager performs closing routines and secures all entrances. (System) 2. The system confirms all transactions are complete. (User) 3. The StoreManager deactivates store systems and utilities. (System) 4. The system logs the store closing action. |
| Extended Process | (Optional) a. Administrator performs end-of-day reporting: 1. The Administrator generates and reviews reports. 2. The StoreManager verifies completion of the closing process. (Exception Handling) b. If system error occurs during closing: 1. The StoreManager restarts the system. 2. The StoreManager reinitiates the store closing process. |

| Use Case ID | UC11 |
| --- | --- |
| Actor | Administrator |
| User Requirement | Manage Store Information |
| User Story | As an administrator, I want to manage store information, so that all details are accurate and up-to-date. |
| Precondition | The administrator is logged in and authenticated. Access to store information database is available. |
| Post-condition | Store information is updated, accurate, and consistent across systems. |
| Basic Process | (User) 1. The Administrator accesses the store information management system. (System) 2. The system displays current store information. (User) 3. The Administrator enters, modifies, or deletes store information as needed. (System) 4. The system updates the database and logs changes. |
| Extended Process | (Optional) a. Changes require verification: 1. The Administrator verifies entered information. 2. The System cross-checks consistency with related data. (Exception Handling) b. If system error occurs during management: 1. The Administrator restarts the system. 2. The Administrator reinitiates information management actions. |

| Use Case ID | UC12 |
| --- | --- |
| Actor | Administrator |
| User Requirement | Manage Product Catalog |
| User Story | As an administrator, I want to manage the product catalog, so that all item information is accurate and current. |
| Precondition | The administrator is logged in and authenticated. Access to the product catalog database is available. |
| Post-condition | Product catalog information is updated and accurate across systems. |
| Basic Process | (User) 1. The Administrator accesses the product catalog management system. (System) 2. The system displays current catalog information. (User) 3. The Administrator enters, modifies, or deletes catalog information as needed. (System) 4. The system updates the database and logs changes. |
| Extended Process | (Optional) a. Changes require verification: 1. The Administrator verifies entered information. 2. The System cross-checks consistency with related data. (Exception Handling) b. If system error occurs during management: 1. The Administrator restarts the system. 2. The Administrator reinitiates catalog management actions. |

| Use Case ID | UC13 |
| --- | --- |
| Actor | Administrator |
| User Requirement | Manage Cash Desk Information |
| User Story | As an administrator, I want to manage cash desk information, so that all data is accurate and efficiently handled. |
| Precondition | The administrator is logged in and authenticated. Access to cash desk information is available. |
| Post-condition | Cash desk information is updated and accurate across systems. |
| Basic Process | (User) 1. The Administrator accesses the cash desk management system. (System) 2. The system displays current cash desk information. (User) 3. The Administrator enters, modifies, or deletes cash desk information as needed. (System) 4. The system updates the database and logs changes. |
| Extended Process | (Optional) a. Changes require verification: 1. The Administrator verifies entered information. 2. The System cross-checks consistency with related data. (Exception Handling) b. If system error occurs during management: 1. The Administrator restarts the system. 2. The Administrator reinitiates cash desk management actions. |

| Use Case ID | UC14 |
| --- | --- |
| Actor | Administrator |
| User Requirement | Manage Cashier Information |
| User Story | As an administrator, I want to manage cashier information, so that all records are accurate and up-to-date. |
| Precondition | The administrator is logged in and authenticated. Access to cashier information is available. |
| Post-condition | Cashier information is updated and accurate across systems. |
| Basic Process | (User) 1. The Administrator accesses the cashier management system. (System) 2. The system displays current cashier information. (User) 3. The Administrator enters, modifies, or deletes cashier information as needed. (System) 4. The system updates the database and logs changes. |
| Extended Process | (Optional) a. Changes require verification: 1. The Administrator verifies entered information. 2. The System cross-checks consistency with related data. (Exception Handling) b. If system error occurs during management: 1. The Administrator restarts the system. 2. The Administrator reinitiates cashier management actions. |

| Use Case ID | UC15 |
| --- | --- |
| Actor | Administrator |
| User Requirement | Manage Item Information |
| User Story | As an administrator, I want to manage item information, so that all item records are accurate and up-to-date. |
| Precondition | The administrator is logged in and authenticated. Access to item information is available. |
| Post-condition | Item information is updated and accurate across systems. |
| Basic Process | (User) 1. The Administrator accesses the item management system. (System) 2. The system displays current item information. (User) 3. The Administrator enters, modifies, or deletes item information as needed. (System) 4. The system updates the database and logs changes. |
| Extended Process | (Optional) a. Changes require verification: 1. The Administrator verifies entered information. 2. The System cross-checks consistency with related data. (Exception Handling) b. If system error occurs during management: 1. The Administrator restarts the system. 2. The Administrator reinitiates item management actions. |

| Use Case ID | UC16 |
| --- | --- |
| Actor | Administrator |
| User Requirement | Manage Supplier Information |
| User Story | As an administrator, I want to manage supplier information, so that all records are accurate and up-to-date. |
| Precondition | The administrator is logged in and authenticated. Access to supplier information is available. |
| Post-condition | Supplier information is updated and accurate across systems. |
| Basic Process | (User) 1. The Administrator accesses the supplier management system. (System) 2. The system displays current supplier information. (User) 3. The Administrator enters, modifies, or deletes supplier information as needed. (System) 4. The system updates the database and logs changes. |
| Extended Process | (Optional) a. Changes require verification: 1. The Administrator verifies entered information. 2. The System cross-checks consistency with related data. (Exception Handling) b. If system error occurs during management: 1. The Administrator restarts the system. 2. The Administrator reinitiates supplier management actions. |