life happens,
coffee helps!

CORNERCUP
EST. 2023
POINT OF SALES
REQUIREMENTS

Prepared By :

Bedol, Zaira Mae

Celicious, Christine Berna

Ebcay, Cristine Joy

Oliveros, Deborah

Payusan, Jurriza

Salera, Keen Hart

Version: 2
October 23, 2023

USER CASE

USER ROLES

ROLES DESCRIPTION

Admin	*The one who can add, update, search by code, and track orders.*

USER STORY

Log-in/Log-out: Authentication		
Title: User Authentication	Priority: High	Estimate: 20 hours

As an admin,
I want a secure log-in and log-out functionality for users,
to control access to the POS system efficiently.

ACCEPTANCE CRITERIA
Log-in
Given that I have valid credentials (userID and password),
When I log into the system,
Then I can access and use the system as the admin.

log-out
Given that I have logged into the system,
When I log out,
Then my account becomes inaccessible, ensuring security.

incorrect login
Given that I have attempted an incorrect login,
When incorrect credentials are entered,
Then the system limits the number of incorrect login attempts, enhancing security.

USER CASE

ADMIN		
Inventory Management		
Title: Efficient Inventory Management	Priority: High	Estimate: 20 hours

As an admin,
I need a feature to manage the CORNERCUP's inventory efficiently,
enabling me to add, edit, or remove products as needed.

ACCEPTANCE CRITERIA
Given that I want to manage the inventory,
When I use the system,
Then I can:
·Add new products to the inventory, specifying details such as name, price, and quantity.
·Edit the details of existing products, including adjustments to price and quantity.
Remove products from the inventory list that are no longer offered, keeping the inventory up-to-date.

USER STORY

ADMIN		
Product Sales Tracking		
Title: Product Sales Tracking	Priority: High	Estimate: 20 hours

As an admin,
I want to track the sales and performance of individual products,
enabling me to make informed decisions about inventory and promotions.

ACCEPTANCE CRITERIA
Given that I want to track product sales and performance,
When I use the system,
Then I can:
·View total sales for each product in the inventory.
·Generate reports that display trends and performance data for products, aiding in inventory decisions and promotional strategies.
Gain insights into which products are most popular and identify those that may need adjustments.

USER CASE

USER STORY

ADMIN		
Sales History Record		
Title: Comprehensive Sales History	Priority: High	Estimate: 50 hours

As an admin,
I require a comprehensive sales history feature that records all product purchases and transactions, providing me with a clear overview of the CONERCUP's sales activities.

ACCEPTANCE CRITERIA
Given that I need a detailed sales history,
When I use the system,
Then I can:
·Record every product purchase, capturing details like date, time, items sold, and prices.
·Store transaction data in a structured format, making it easy to search and review.
Retrieve historical transaction records for auditing and analysis purposes.

USER STORY

ADMIN		
Transaction and Payment Records		
Title: Tracking Orders	Priority: High	Estimate: 15 hours

As an admin,
I need a detailed record-keeping system for all transactions and payments, ensuring transparency and accuracy in financial tracking.

ACCEPTANCE CRITERIA
Given that I want detailed transaction and payment records,
When I use the system,
Then I can:
·Maintain a record of all transactions, including payment methods and change provided.
·Access a clear view of payment history, aiding in accounting and financial analysis.
Verify transactions by accessing historical payment records and maintaining financial accuracy.
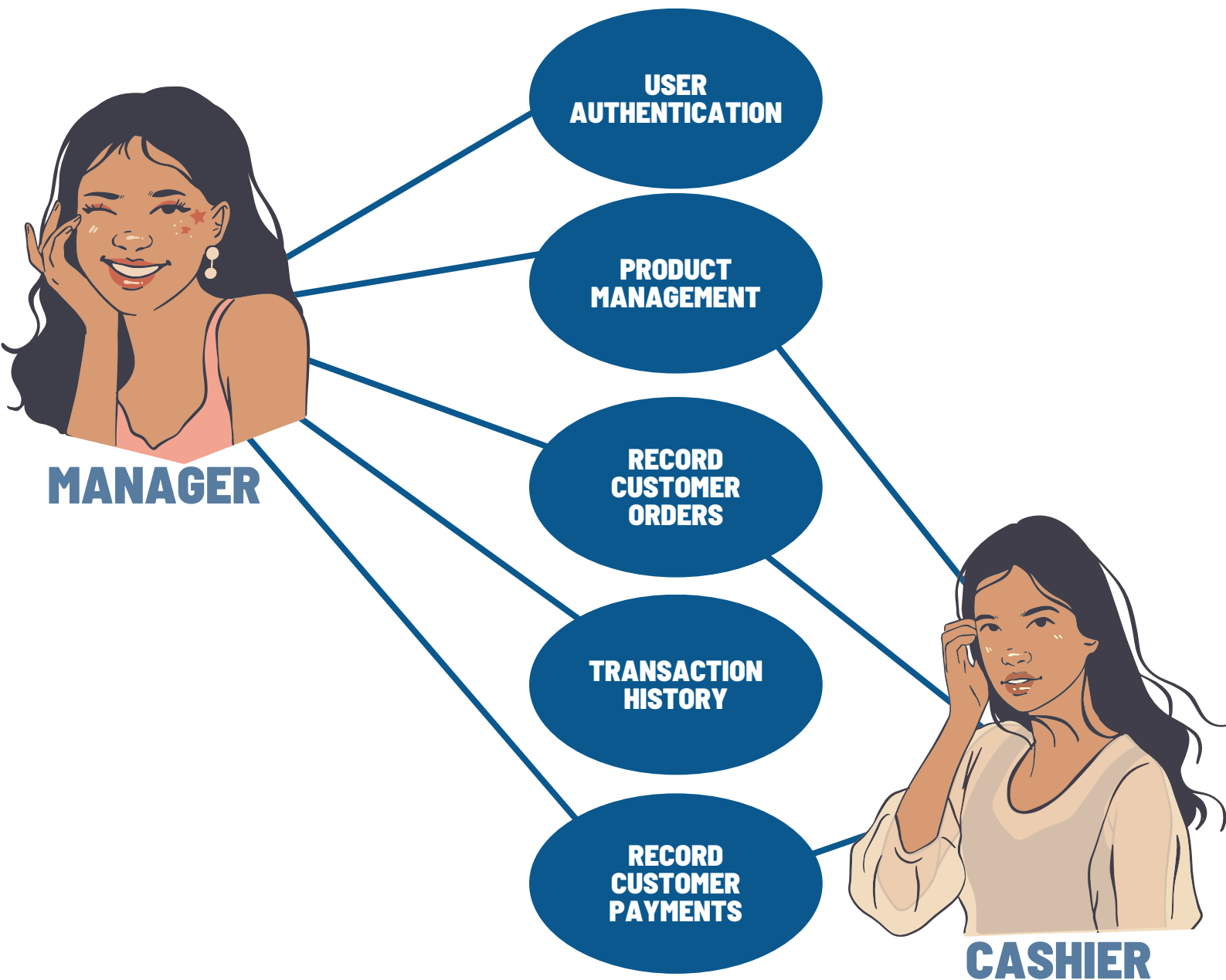
USER CASE

ADMIN		
User Account Management		
Title: User Account Management	Priority: High	Estimate: 10 hours

As an admin,
I require a user settings feature to manage user accounts securely,
allowing me to adjust permissions and credentials as needed for security and access control.

ACCEPTANCE CRITERIA
Given that I want to manage user accounts securely,
When I use the system,
Then I can:
·Create and modify user accounts, defining roles such as admin.
·Adjust permissions to specify what each user can access and do within the system.
Reset or modify user passwords, ensuring secure access to the POS system.

USE CASE DIAGRAM

USC FOR CORNERCUP POINT OF SALE (POS) SYSTEM

MANAGER

USER AUTHENTICATION

PRODUCT MANAGEMENT

RECORD CUSTOMER ORDERS

TRANSACTION HISTORY

RECORD CUSTOMER PAYMENTS

CASHIER

Associations:
- ·Manager uses (extends) User Authentication, Product Management, Record Customer Orders, Transaction History, and Record Customer Payments
- ·Cashier uses (extends) Product Management, Record Customer Orders, and Record Customer Payments

USER CASE SCENARIOS

Use Case Name: User Authentication	**UniqueID:** Password

Scenario: The owner/manager arrives at CORNERCUP and needs to access the POS system to oversee daily operations.

Actor(s): Owner/Manager

Stakeholder: Owner/Manager

Level: Blue

Description: This use case enables the admin to log in to the system using their authentication credentials.

Triggering Event: The owner/manager needs to log in to the system.

Trigger Type: External

Steps Performed(Main Path)	Information for steps
1. The owner/manager navigates to the system's login screen.	When the admin arrives at CORNERCUP, they approach the POS system and access the login screen. The login screen is the initial point of interaction for the admin to access the system's functionalities.
2. The owner/manager enters their unique user ID and password.	To gain access to the system, the owner/manager must enter their unique user ID and the associated password. The user ID is a specific identifier assigned to the owner/manager for system recognition.
3. The system validates the provided password.	The system performs a validation process on the entered password. It checks whether the provided password matches the stored password associated with the owner/manager's user ID.
4. If the password is correct, the owner/manager gains access to the system.	If the system confirms that the provided password matches the stored password for the admin's user ID, access to the system is granted. This successful authentication allows the owner/manager to access the system's functionalities, such as overseeing daily operations in the CORNERCUP.

USER CASE SCENARIOS

Steps Performed(Main Path)	Information for steps
5. If the password is incorrect, the system displays a message indicating incorrect credentials.	In the event that the system's validation process determines that the entered password does not match the stored password for the owner/manager's user ID, the system displays a message on the login screen. This message informs the owner/manager that the entered credentials are incorrect and that access is denied.

Preconditions: Admin is at the login screen.

Postconditions: Admin successfully logs in.

Assumptions: Admin has valid login credentials.

Success Guarantee: Admin gains access to the system.

Minimum Guarantee: Admin can attempt to log in.

Requirements Met: Allow the admin to log in with valid credentials.

Outstanding Issues: How should incorrect login credentials be handled? What if the admin account is locked due to multiple failed login attempts?

Priority: High

Risks: High

USER CASE SCENARIOS

Use Case Name: Sales Recording	**UniqueID:** SALES-001

Scenario: A customer orders a latte and a waffle pop.

Actor(s): Cashier,Owner/Manager,Customer

Stakeholder: Cashier,Owner/Manager,Customer

Level: Blue

Description: This use case enables the cashier to record customer orders and update the system with the purchased items and their quantities.

Triggering Event: A customer places an order

Trigger Type: External

Steps Performed(Main Path)	Information for steps
1. The cashier enters the ordered items (latte and muffin) and specifies their quantities into the system.	When a customer places an order, the cashier uses the system to record the items ordered, which in this scenario are a latte and a muffin. The cashier specifies the quantities of each item that the customer is purchasing.
2. The system records the transaction. The system records the transaction in real-time as the	The system records the transaction in real-time as the cashier enters the order details. This recording includes the items ordered, their quantities, and any other relevant transaction information
3. The system updates the inventory to reflect the items sold	As the transaction is recorded, the system updates the inventory to reflect the items that have been sold. This ensures that the inventory is accurate and up to date, preventing the sale of items that are out of stock.
4. The system calculates the total cost for the customer's order	After recording the items and their quantities, the system calculates the total cost for the customer's order. This total may include the prices of the individual items, any applicable taxes, discounts, or additional charges.

USER CASE SCENARIOS

Preconditions: Cashier is logged in and order form is available.

Postconditions: Order is successfully added to the list.

Assumptions: Cashier has the order form ready to use.

Success Guarantee: Order is saved and reflected in the system.

Minimum Guarantee: Cashier can attempt to add a new order.

Requirements Met: Allow the cashier to record new orders with complete details.

Outstanding Issues: How should incomplete or erroneous order details be handled? What if an order with the same items already exists in the system?

Priority: High

Risks: High

USER CASE SCENARIOS

Use Case Name: Transaction History	**UniqueID:** TRANS-001

Scenario: At the end of the day, the owner/manager wants to review all the transactions that occurred.

Actor(s): Owner/Manager

Stakeholder:Owner/Manager

Level: Blue

Description: This use case allows the owner/manager to access and review a list of all transactions, including details such as items sold, prices, and total sales for the day.

Triggering Event: End of the business day.

Trigger Type: External

Steps Performed(Main Path)	Information for steps
1.1. The owner/manager accesses the transaction history feature in the system.	At the end of the business day, the owner/manager accesses the system and navigates to the transaction history feature. This feature is typically available for authorized personnel, such as the owner/manager, to review the day's transactions
2. The system presents a list of all transactions, including details of items sold, prices, and total sales for the day.	Once the owner/manager accesses the transaction history feature, the system compiles and presents a list of all the transactions that occurred during the day. The list includes details such as the items sold in each transaction, their respective prices, and the total sales for the day. This allows the owner/manager to review the business's daily performance and transaction details.

USER CASE SCENARIOS

Preconditions: Manager is logged in.

Postconditions: Manager reviews the list of transactions.

Assumptions: Manager has access to the transaction history feature.

Success Guarantee: Manager can access and review transaction history.

Minimum Guarantee: Manager can attempt to access the transaction history.

Requirements Met: Allow the manager to review a list of all transactions.

Outstanding Issues: How should incomplete or erroneous transaction details be handled?

Priority: High

Risks: High

USER CASE SCENARIOS

Use Case Name: Payment Recording	**UniqueID:** PAYMENT-001

Scenario: A customer pays for their order using cash.

Actor(s): Cashier, Owner/Manager, Customer

Stakeholder: Cashier, Owner/Manager, Customer

Level: Blue

Description: This use case allows the cashier to record the payment method used by the customer and store the payment details.

Triggering Event: Customer payment.

Trigger Type: External

Steps Performed(Main Path)	Information for steps
1. The cashier records the customer's payment in the system.	When a customer chooses to pay for their order with a cash, the cashier records this payment method in the system. This action ensures that the payment is properly documented and associated with the specific transaction.
2. The system stores payment details, including the payment type and amount paid.	After the cashier records the customer's payment method, the system stores payment details related to the transaction. This includes information about the specific amount paid by the customer. Storing this information is crucial for keeping accurate records of transactions and financial data.

USER CASE SCENARIOS

Preconditions: Cashier is logged in and payment form is available.

Postconditions: Payment details are recorded in the system.

Assumptions: Cashier has the payment form ready to use.

Success Guarantee: Payment details are stored in the system.

Minimum Guarantee: Cashier can attempt to record a payment.

Requirements Met: Allow the cashier to record payment details.

Outstanding Issues: How should incomplete or erroneous payment details be handled? What if the payment method is not accepted?

Priority: High

Risks: High

E-R DIAGRAM

E-R DIAGRAM FOR CORNERCUP POINT OF SALE (POS) SYSTEM

USER

UserID **PK**

Username

Password

Usertype

TRANSACTIONAL DETAILS

Transactiona DetailedID **PK**

FK TransactionID

FK ProductID

QuantitySold

USER SETTING

UserID **FK**

Other Settings

Inventory List

PRODUCT

ProductID **PK**

Productname

Category

Price

Quantity

Category name

CategoryID

PAYMENT

PaymentID **PK**

FK TransactionID

AmountPaid

PaymentMethod

TRANSACTION

TransactionID **PK**

TransactionDate

TotalAmount

Change