

SE Lab 1

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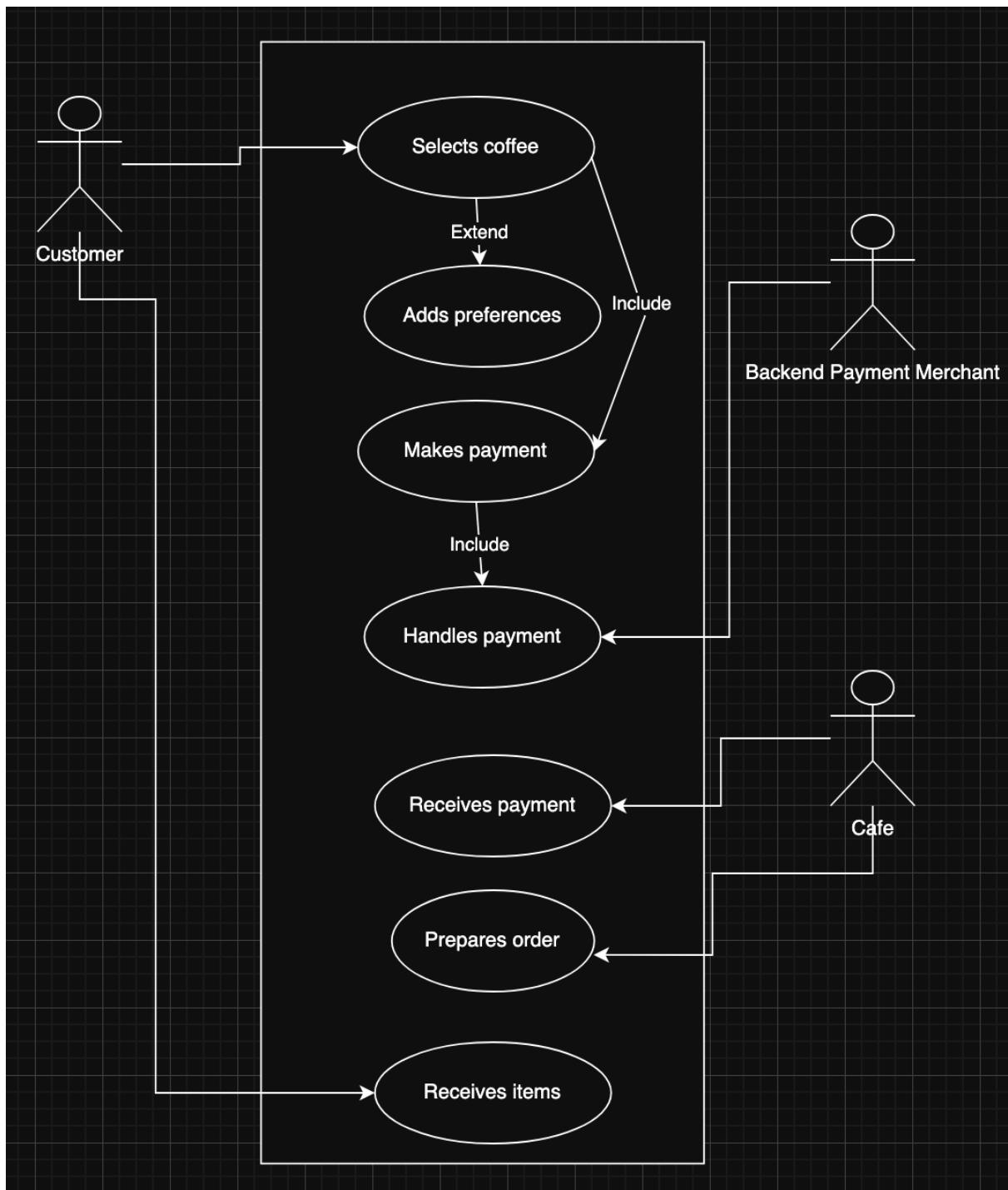
SRN: PES2UG23CS405

Requirements Table

Req ID	Type	Description	Priority	Acceptance Criteria	Rationale (short)
FR-001	Functional	The system shall allow a customer to select a coffee type (Espresso, etc.)	High	When a customer taps "Espresso," the screen highlights Espresso and displays "Size"	Core ordering functionality
FR-002	Functional	The system shall allow the customer to select a drink size.	High	When a size is selected, it is shown as chosen and the next step is prompted.	Required for price calculation and preparation
FR-003	Functional	The system shall allow the customer to put some add-ons/requests to their drink (almond milk, caramel, etc.)	High	When a customer adds their requirements in the optional add-ons field, these preferences should be shown alongside the order itself	Required for customizability in order to suit food preferences
FR-004	Functional	The system shall calculate the total price of the order, and prompt the customer to choose a payment method to complete the transaction	High	When a customer reaches this screen, it highlights the price of the order and displays modes of payment	Core transaction functionality
FR-005	Functional	The system shall print the receipt after the payment is confirmed, and add the necessary loyalty points to users who are a part of the loyalty program	High	When a customer pays for their order, it prints a receipt and adds loyalty points to the member	Adding loyalty points is necessary for the functionality of the loyalty program. Printing receipt is a legal obligation.
NFR-001	Nonfunc.	The system shall complete any order (selection to payment) in under 60 s.	High	A timing log shows < 60 s from first tap to transaction approval	Ensures quick service during peak hours

NFR-002	Nonfunc.	The system shall have a password-protected admin mode to allow staff to update inventory, menu and prices if necessary	High	A backend inventory manager to show what's available on the menu.	Integrates with the user-facing frontend to show what is available on the menu.
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UML Use Case Diagram



Use Case Flow

Main Success Scenario:

1. Customer opens menu on kiosk
2. Customer selects coffee
3. Customer chooses size of coffee
4. Customer chooses add-ons to coffee
5. Customer chooses payment mode and makes transaction
6. Customer receives receipt and loyalty points if applicable
7. Based on the order, the staff receive it and prepare coffee accordingly

Alternate Workflow:

2a. Coffee not available:

- 2a1. System is updated to show that the item is out of stock

5a. Payment Declined:

- 5a1. System displays a payment failed message
- 5a2. Customer prompted to try another payment method
- 5a3. If issues persist, customer is given the choice to go to the counter and pay with cash, or cancel the transaction.

6a. Receipt not printed (no paper, etc.):

- 6a1. System gives option to the customer to send receipt via SMS.