Initial Use Case Diagram for Coffee Cart System

System

System Use Case Diagram

- Owner
- Customer
- Employee

- System Boundary
- Manage Employee
- Manage BestSellers
- ManageFood
- Join GoldCard memebership
- Join VIP Membership
- Manage Purchase
- Manage refills
- Manage VIPCustomer
- Payment
- Purchase
- Manage GoldCardStatus
- Manage preorder
- Request Report
- preorder
- Print Purchase Report

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Business Usecase Categories provided by the Coffee Cart System

Types of Purchases
(depending on the Customers membership status)

Regular Purchase
1. An item is purchased as a regular transaction and customer details are not tracked.
2. An item is purchased as a VIP member and tracks all the customer details along with VIPpoints scored with contributes to gaining temporary or permanent gold card status depending on the VIP points.

Refills
1. Regular customers refills are not offered.
2. VIP customer can order refills for half price and are tracked through the system.
3. Gold card customers refill for free without asking as they go ahead and fill the special cups provided for free refill.

preorder
1. Regular customer refills are not offered.
2. VIP customer can order refills for half price and are tracked through the system.
3. Gold card customers refill for free without asking as they go ahead and fill the special cups provided for free refill.

Types of Memberships
(depending on the points scored through purchases)

VIP
1. VIP points are obtained as one point for each dollar spent and only VIP customers name, phone, date of birth and address details are tracked along with their VIP card number.

Gold
1. Gold card status is maintained by having 500 points for the last 30 days and at any given point thi socndition is not satisfied customer is out of the gold status. Customers who reach the 5000 points get the permanent gold status.

Types of Reports
(depending on the type of user request)

Daily Report
1. Daily report for regular customers, VIP customers and preorders grouped by VIP customer status or food or preorders.

Report for last 30 days
1. Last 30 days report for regular customers, VIP customers and preorders grouped by customers.
2. Last 30 days report grouped by date and preorder.

Report for a VIP customer
1. Report generated on the request of VIP customer with name, address, phone, , VIP points earned, gold points earned in the last 30 days and points needed to earn permanent gold status.
2. Purchases made in the last 30 days.

Purchases and preorders for any given date
1. Report of purchases made for any given date grouped by preorders.

Administration
(By Owner)

Employee
1. Owner can add, edit, delete employee with details of employee name, phone, date of birth, address, salary, date of employment, date of termination
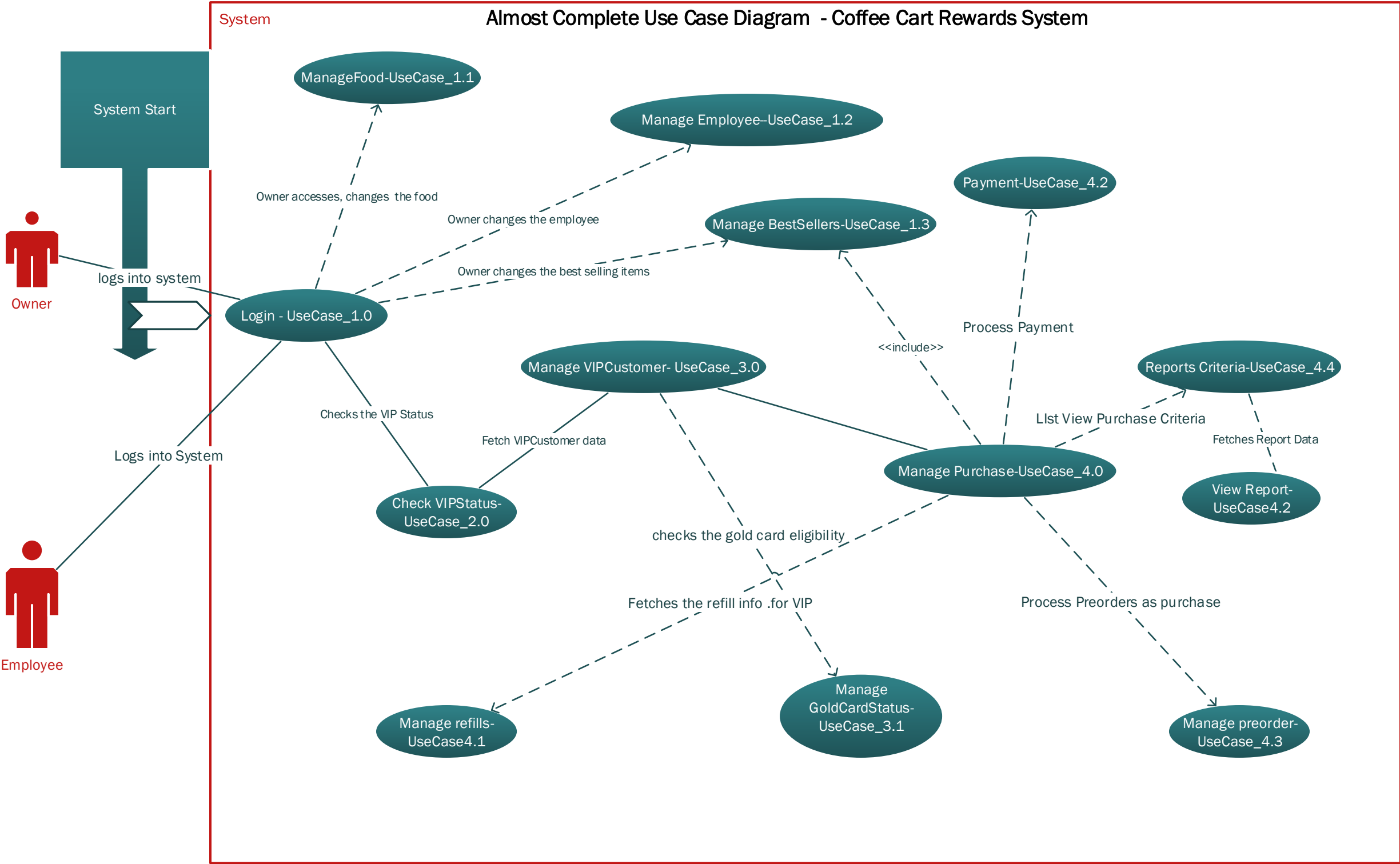
Payment methods
1. owner can add, edit, delete payment methods accepted through the system for transactions. Default accepted is cash only right now so other methods are disabled for the user until activated by the owner.

Food
1. Owner can add, edit or delete food items offered with price details to make them available for the purchases.

Bestsellers
1. Owner adds, edits, deletes or which desserts get the best seller status.

Almost Complete Use Case Diagram - Coffee Cart Rewards System

System

System Start

Owner

logs into system

Logs into System

Employee

ManageFood-UseCase_1.1

Owner accesses, changes the food

Manage Employee–UseCase_1.2

Owner changes the employee

Manage BestSellers-UseCase_1.3

Owner changes the best selling items

Login - UseCase_1.0

Checks the VIP Status

Check VIPStatus-UseCase_2.0

Manage VIPCustomer- UseCase_3.0

Fetch VIPCustomer data

Payment-UseCase_4.2

Process Payment

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Reports Criteria-UseCase_4.4

LIst View Purchase Criteria

Fetches Report Data

Manage Purchase-UseCase_4.0

View Report- UseCase4.2

checks the gold card eligibility

Fetches the refill info .for VIP

Process Preorders as purchase

Manage refills-UseCase4.1

Manage GoldCardStatus-UseCase_3.1

Manage preorder-UseCase_4.3

Entry Point	Actor	Action Item	System Use Case or Operation	Action	Constraint	Next use case	Category
System Start	Owner or Employee	Login Screen	Owner Login	Owner logs in with admin rights with log in authentication	Owner is the only admin	Main Menu	Authentication & Login
	Owner or Employee	Login Screen	Employee Login	Employee logs in with user rights with log in authentication	None	Main Menu	
Log in	Owner	Main Menu Screen	Select Manage Employee	Opens Manage employee sheet	Owner is the only admin	Manage Employee	Administration
	Owner	Main Menu Screen	Select Mange Food	Opens Manage Food sheet	Owner is the only admin	Manage Food	
	Owner	Main Menu Screen	Select Manage BestSeller	Opens Manage Best Seller sheet	Owner is the only admin	Manage Best Seller	
Main Menu	Owner	Manage Food Screen	Add Food	Add food name, type, price and click save button	Owner is the only admin	Manage Food	Administration
	Owner	Manage Food Screen	Edit Food	Edit food details and click save button	Owner is the only admin	Manage Food	
	Owner	Manage Food screen	Delete Food	Delete food details and click save button	No constraints as all preorders are prepaid	Manage Food	
Main Menu	Owner	Manage Best Seller Screen	Add Best Seller	Add best seller item	No Constraint	Manage Best Seller	Administration
	Owner	Manage Best Seller Screen	Edit Best Seller	Edit Best Seller item	No Constraint	Manage Best Seller	
	Owner	Manage Best Seller Screen	Delete Best Seller	Delete Best Seller Item	If the preorder slots filled are less than 4.	Manage Best Seller	
Main Menu	Owner	Manage Employee Screen	Add Employee	Add new employee	No Constraint	Manage Employee	Administration
	Owner	Manage Employee Screen	Edit Employee	Edit Employee	No Constraint	Manage Employee	
	Owner	Manage Employee screen	Delete Employee	Delete Employee	Can not delete if salary is not paid and date of termination is in the last 3 years	ManageEmployee	
Main Menu	Owner or employee	Manage VIP Customer and Manage Regular Customer	Track VIP Customer Info. if available	Fetch VIP Customer info. for the phone number or from card	VIP gold customer provided with free refills	Manage Purchases	Type of Membership
			Regular Customer Purchase	Invoke regular customer purchase screen	customer gets gree coffee on birthday.		

Entry Point	Actor	Action Item	System Use Case or Operation	Action	Constraint	Next use case	Category
Manage VIPCustomer Stauts Screen	Owner or employee	Manage Gold card status and Perm. gold card status / Manage refills	Join gold card temprary or permanent	Fetch gold card eligibility criteria and also the refills price with memebership	Check points over last 30 days for perm. and temp. status	Manage gold card / Manage Refills	Type of Membership
Manage Purchase screen	Owner or employee	Payment	Process payment	payment if applied on the transaction	Only cash transaction is accepted	Manage Reports	Type of Purchase
Manage Purchase screen	Owner or employee	Manage Preorders	Process Preorder	Fetch preorder slots available	Criteria such as daily or last 30 days reports	Manage Purchases / Manage VIP Customer	Type of Purchase
Manage Report screen	Owner or employee	Manage Reports	Select report to view	Fetch report criteria from the database	Criteria such as daily or last 30 days reports or preorders	Manage Purchases / Manage VIP Customer	Type of Report
Manage Report Criteria	Owner or employee	View Reports	Select report to view	Fetch report data from the database to view	Only view is provided	Manage Purchases / Manage VIP Customer	Type of Report