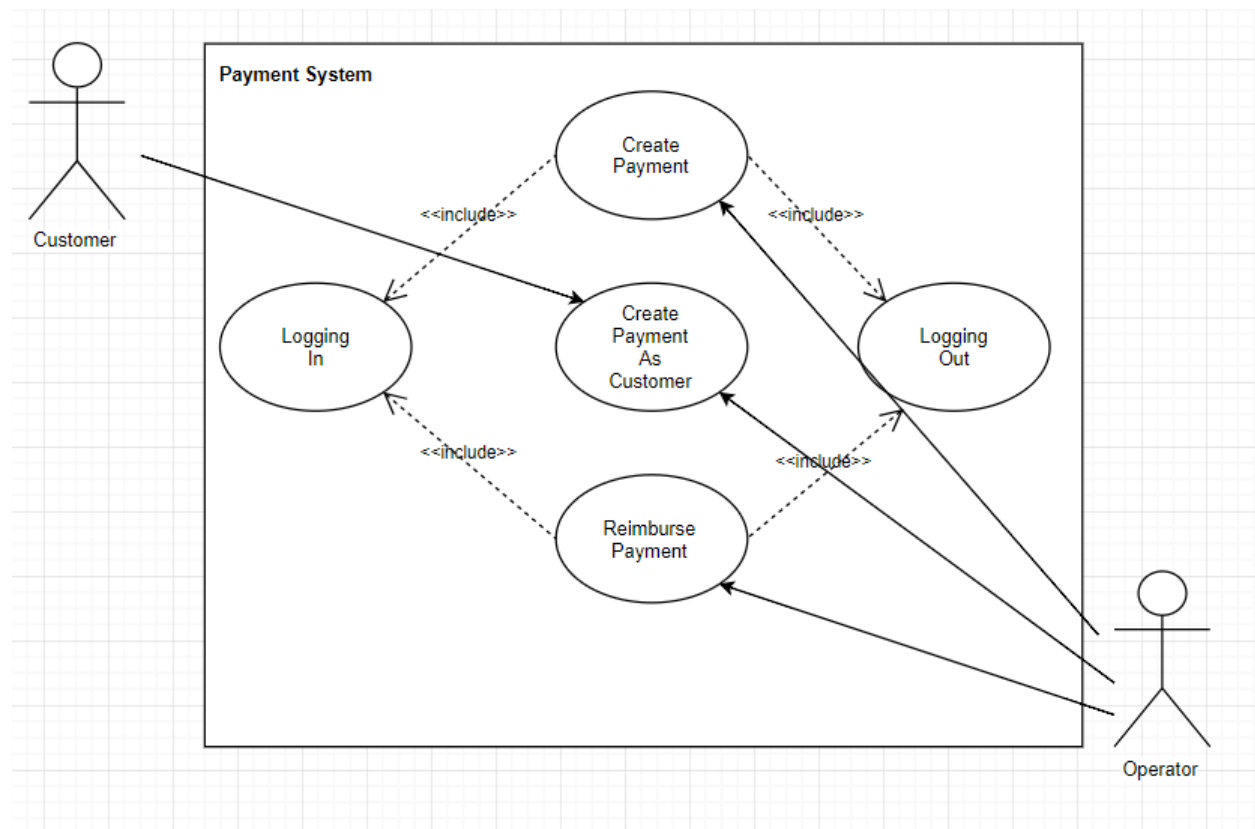## Create Payment Description

The Create Payment description depicts an over view of the use case. Showcasing the different actors, related use cases, and flow of events.

Actors: Operator of Sweet Karoline's Cakes Customer of Sweet Karoline's Cakes
Includes: Logging In Logging Out
Extension Points:
Preconditions: Customer must have an account Customer must have an open order.

Flow of events:
 	
1. The customer calls in to make a payment on an open invoice.
2. The actor navigates to the "Customer List" screen.
3. The actor enters the customer's first name.
4. The actor enters the customer's last name.
5. The actor selects the customer account.
6. The actor finds the invoice the customer is discussing and clicks "Make Payment".
7. The modal opens.
8. The actor is redirected to the payment portal.
9. The actor enters the customer's credit card number.
10. The actor enters the customer's credit card name.
11. The actor enters the customer's credit card expiration date.
12. The actor enters the customer's credit card CVV.
13. The actor then clicks "Take Payment".
    a. If the payment fails
        i. The operator is returned to the payment entry
    b. If the payment succeeds
        i. The payment portal closes and the account refreshes showing the new payment against the order.
14. The actor ends the communication with the customer.

Postconditions: Payment is created on customers account. Payment is deducted from order total. Invoice Line is generated for the payment.

Create Payment Use Case Diagram

The use case diagram depicts how the user interacts with the use case and the encompassing system. In this case we are looking at the Payment system that has the Create Payment use case, which is solely operated by the operator for Sweet Karoline's Cakes.

Payment System

Customer

Create Payment

<<include>>   <<include>>

Logging In

Create Payment As Customer

Logging Out

<<include>>   <<include>>

Reimburse Payment

Operator

Create Payment Prototype

The Create Payment Prototype depicts the basic layout of the pages the operator will utilize while working this use case. Here you can see that a payment portal to PayPal is open during the make a payment section.

Endeavour Technical Limited

Your order summary

Descriptions	Amount
GBP Quality Manual Template Manufac... Item number: 10 Item price: £249.97 Quantity: 1	£249.97
Item total	**£249.97**
	Total £249.97 GBP

Choose a way to pay
PayPal securely processes payments for Endeavour Technical Limited.

▸ **Have a PayPal account?**
   Log in to your account to pay

PayPal 🔒

▾ **Don't have a PayPal account?**
   Pay with your debit or credit card as a PayPal guest

Country	United Kingdom ▾
Card type	Select Card ▾
First name	
Last name	
Address line 1	
Address line 2 (optional)	
Town/City	
County	▾
Postcode	
Telephone	
Email	

In order to process your payment, PayPal collects certain personal information from you which it holds in accordance with its Privacy Policy. For more information on this process, Click PayPal Account Optional.

Continue

Payments processed by **PayPal**

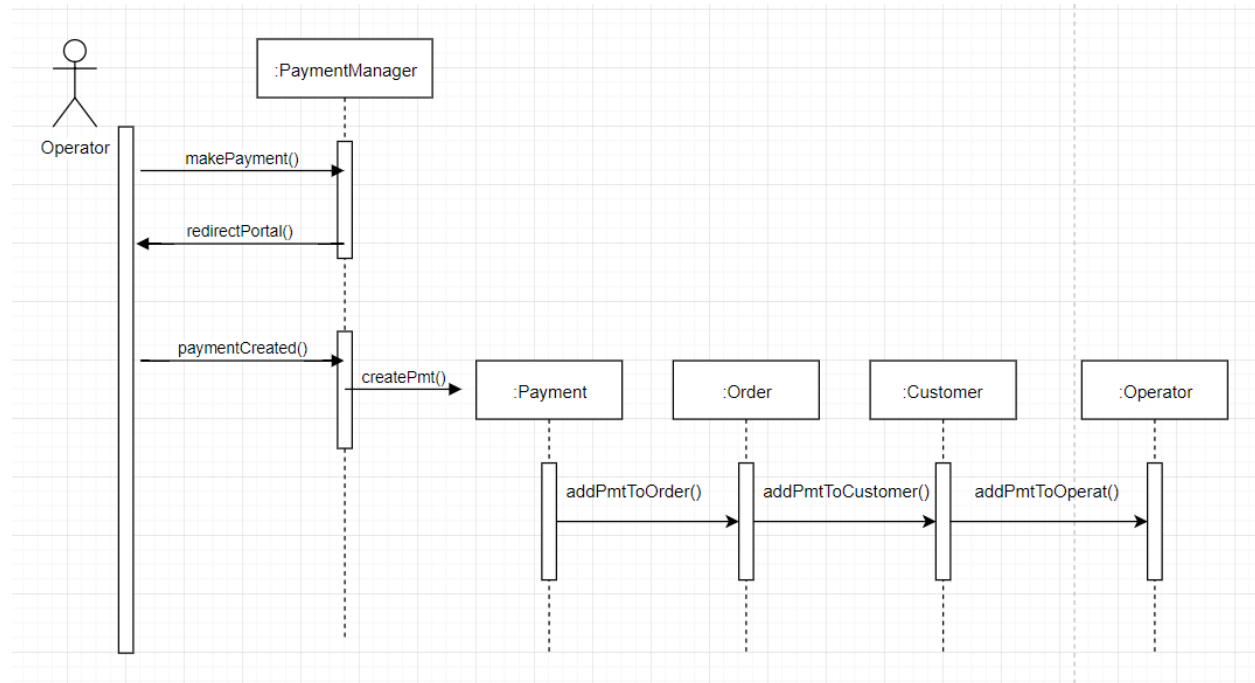Cancel and return to Endeavour Technical Limited.

Create Payment Class Diagram

The Create Payment class diagram depicts how the database objects interact with each other in this particular use case. As you can see a payment is related to Operators, Customers, and Orders. Each of these have a many to many relationship. An operator can take many payments and a payment can be taken by many operators. A customer has many payments and a payment can have many customers. And finally, an order has many payments against it and a payment can be against many orders.
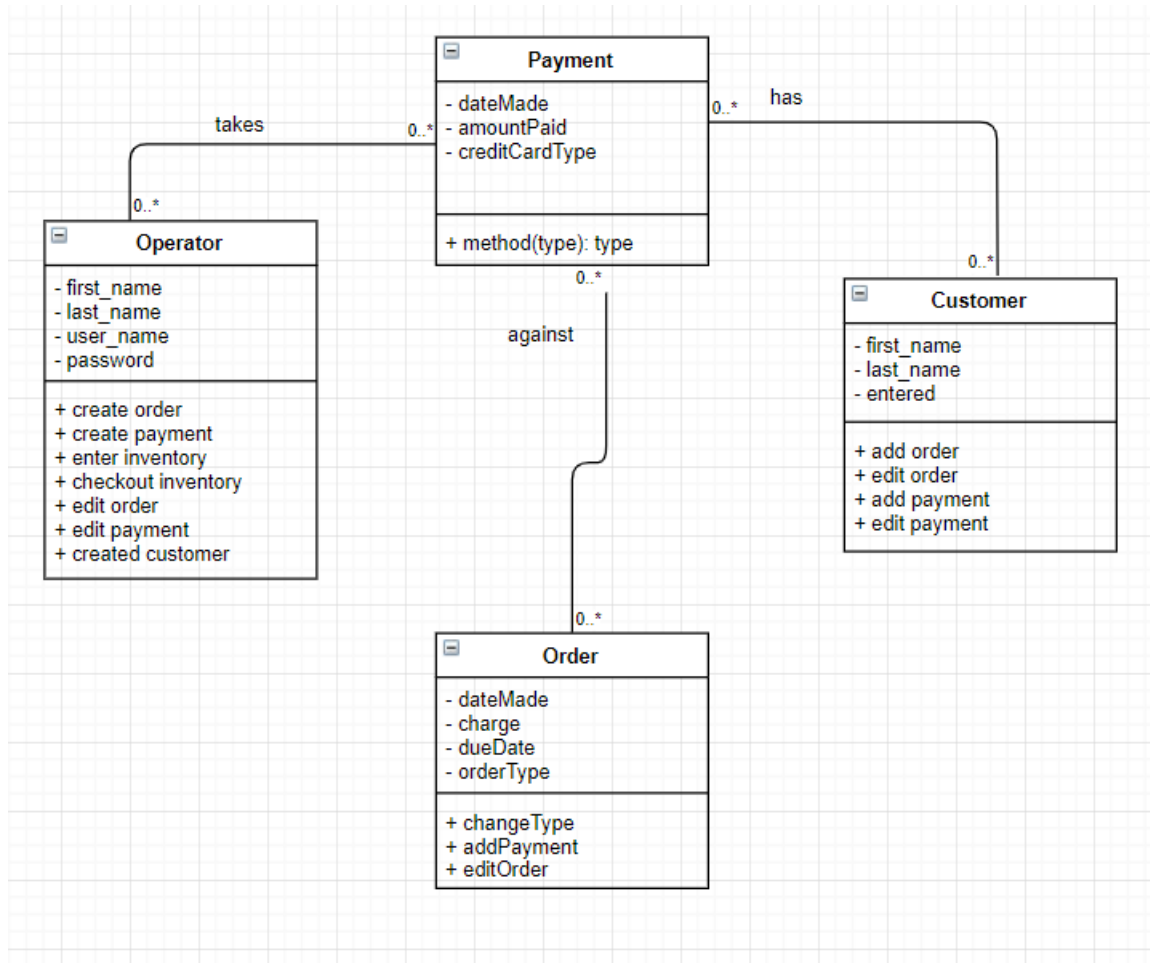
Create Payment Sequence Diagram

The Create Payment sequence diagram depicts how the flow events occur through the lifecycle of the use case. Starting from the actor initiating the Create Payment by making a payment to the payment being created in the database.

Flow of Events

1. The customer calls in to make a payment on an open invoice.
2. The actor navigates to the "Customer List" screen.
3. The actor enters the customer's first name.
4. The actor enters the customer's last name.
5. The actor selects the customer account.
6. The actor finds the invoice the customer is discussing and clicks "Make Payment".
7. The modal opens.
8. The actor is redirected to the payment portal.
9. The actor enters the customer's credit card number.
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11. The actor enters the customer's credit card expiration date.
12. The actor enters the customer's credit card CVV.
13. The actor then clicks "Take Payment".
    a. If the payment fails
        i. The operator is returned to the payment entry
    b. If the payment succeeds
        i. The payment portal closes and the account refreshes showing the new payment against the order.
           The actor ends the communication with the customer.