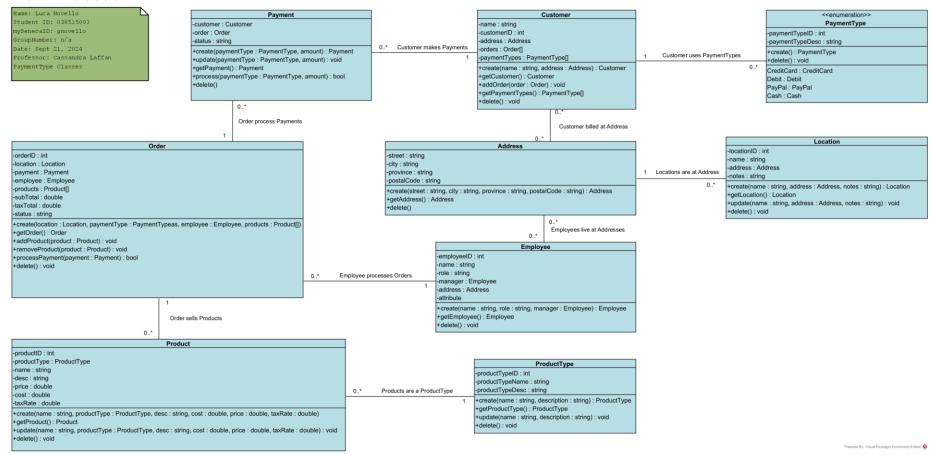
Week 4 - In Class Lab

Luca Novello | 038515003 | gnovello

Short Explanation:

I created different Classes for each payment type to handle their unique attributes. The customer can place an Order, the Order can process 1 or many Payments. A Payment has a Customer, and a Customer can have 0 or many PaymentTypes of 1 of the 3 PaymentTypes available. I used an enumeration class to show the limited options. I think maybe using base and sub classes would work better but I am probably just overthinking it again.

Main Classes:



Controller Classes:

Name: Luca Novello Student ID: 038515003 mySenecaID: gnovello GroupNumber: n/a Date: Sept 21, 2024

Professor: Cassandra Laffan

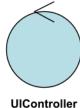
Controller Classes

PaymentType Classes:

Name: Luca Novello Student ID: 038515003 mySenecaID: gnovello GroupNumber: n/a Date: Sept 21, 2024

Professor: Cassandra Laffan

Controller Classes







CreditCard

-paymentTypeID: int -customer: Customer -bank: string -acctNumber: int

-expiryDate : int #cvv : int

+create(customer : Customer, bank : string, acctNumber : int, expiryDate : int, cvv : int) : CreditCard +update(customer : Customer, bank : string, acctNumber : int, expiryDate : int, cvv : int) : void

+processTransaction(): string

+delete(): void

Debit

-paymentTypeID: int -customer: Customer -bank: string

-cardNumber : int #pin : int

+create(customer : Customer, bank : string, cardNumber : int, pin : int) : Debit +update(customer : Customer, bank : string, cardNumber : int, pin : int) : void

+delete(): void

+processTransaction(): string

PayPal

-paymentTypeID: int -customer: Customer -email: string #password: string

+create(customer : Customer, email : string, password : string) : PayPal +update(customer : Customer, email : string, password : string) : void

+processTransaction(): string

+delete(): void

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