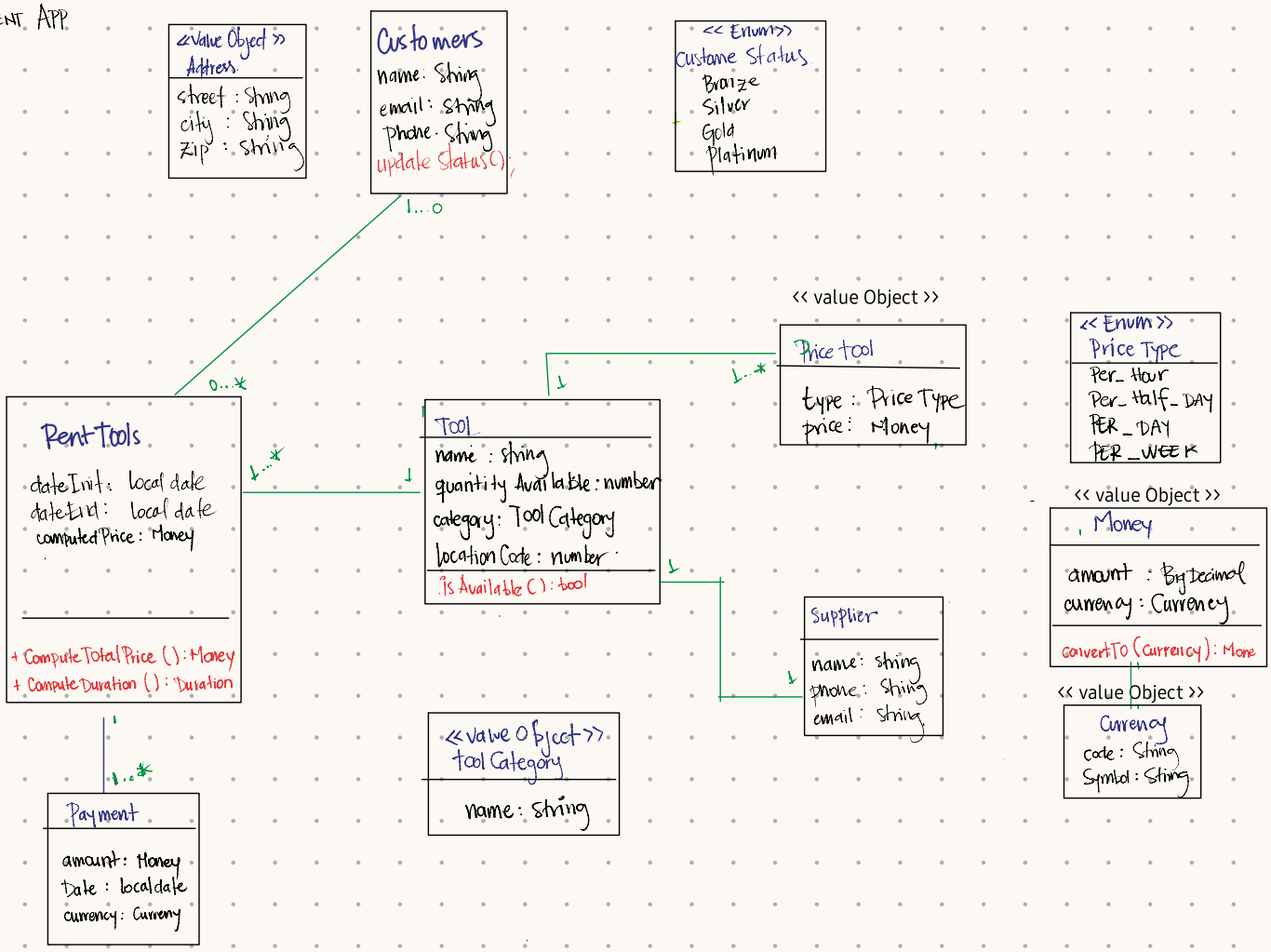
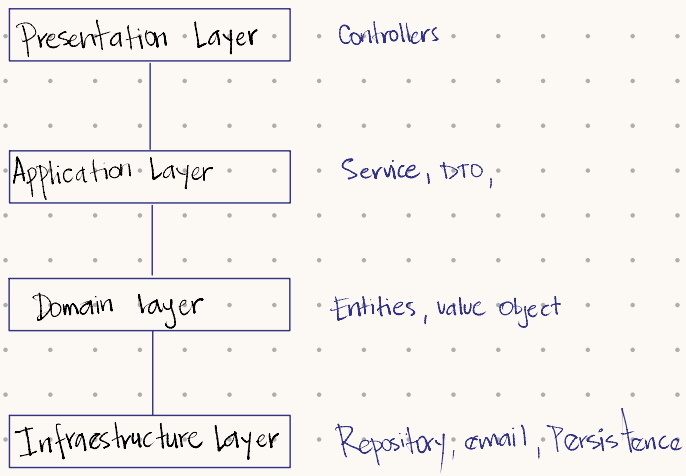
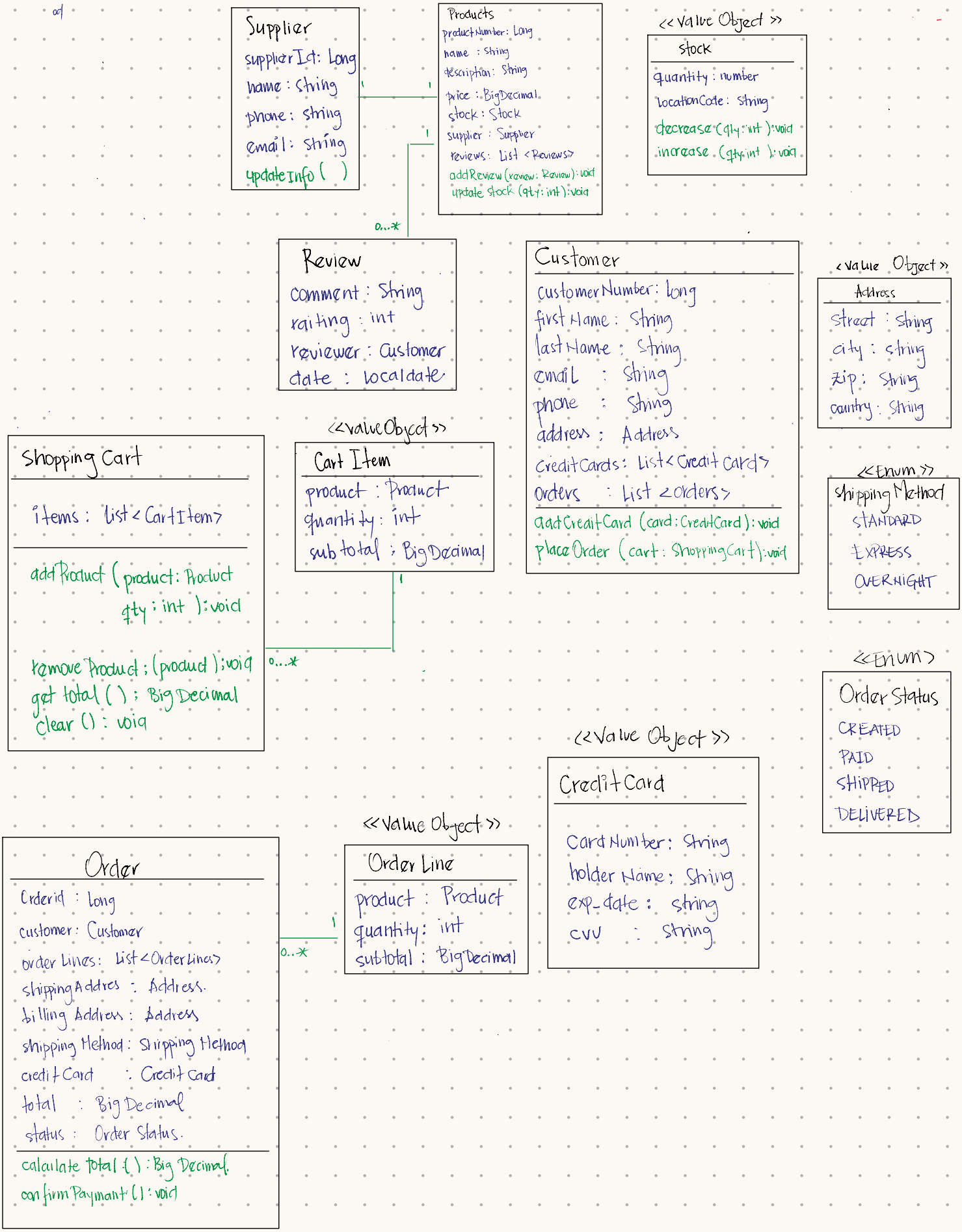
TOOL RENT APP



WEBSHOP

High-Level Architecture




Supplier
supplierId: Long
name: String
phone: String
email: String
updateInfo( )
Products
productNumber: Long
name: String
description: String
price: BigDecimal
stock: Stock
supplier: Supplier
reviews: List <Reviews>
addReview(review: Review): void
updateStock(qty: int): void
<< Value Object >>
Stock
quantity: number
locationCode: String
decrease(qty: int): void
increase(qty: int): void
1
1
1
0...*
Review
comment: String
raiting: int
reviewer: Customer
date: localdate
Customer
customerNumber: long
firstName: String
lastName: String
email: String
phone: String
address: Address
creditCards: List<Credit Card>
Orders: List <Orders>
addCreditCard(card: CreditCard): void
placeOrder(cart: ShoppingCart): void
<Value Object>
Address
street: String
city: String
zip: String
country: String
<<Enum>>
ShippingMethod
STANDARD
EXPRESS
OVERNIGHT
<<Enum>
Order Status
CREATED
PAID
SHIPPED
DELIVERED
<<valueObject>>
Cart Item
product: Product
quantity: int
subtotal: BigDecimal
1
0...*
Shopping Cart
items: list<CartItem>
addProduct(product: Product
qty: int): void
removeProduct: (product): void
getTotal( ): BigDecimal
clear(): void
<<Value Object>>
Credit Card
Card Number: String
holder Name: String
exp_date: string
cvv: String
<<Value Object>>
Order Line
product: Product
quantity: int
subtotal: BigDecimal
1
0..*
Order
Orderid: long
customer: Customer
order Lines: List<OrderLines>
shippingAddres: Address.
billing Address: Address
shipping Method: Shipping Method
credit Card: Credit Card
total: Big Decimal
status: Order Status.
calculate total( ): Big Decimal.
confirmPaymant( ): void

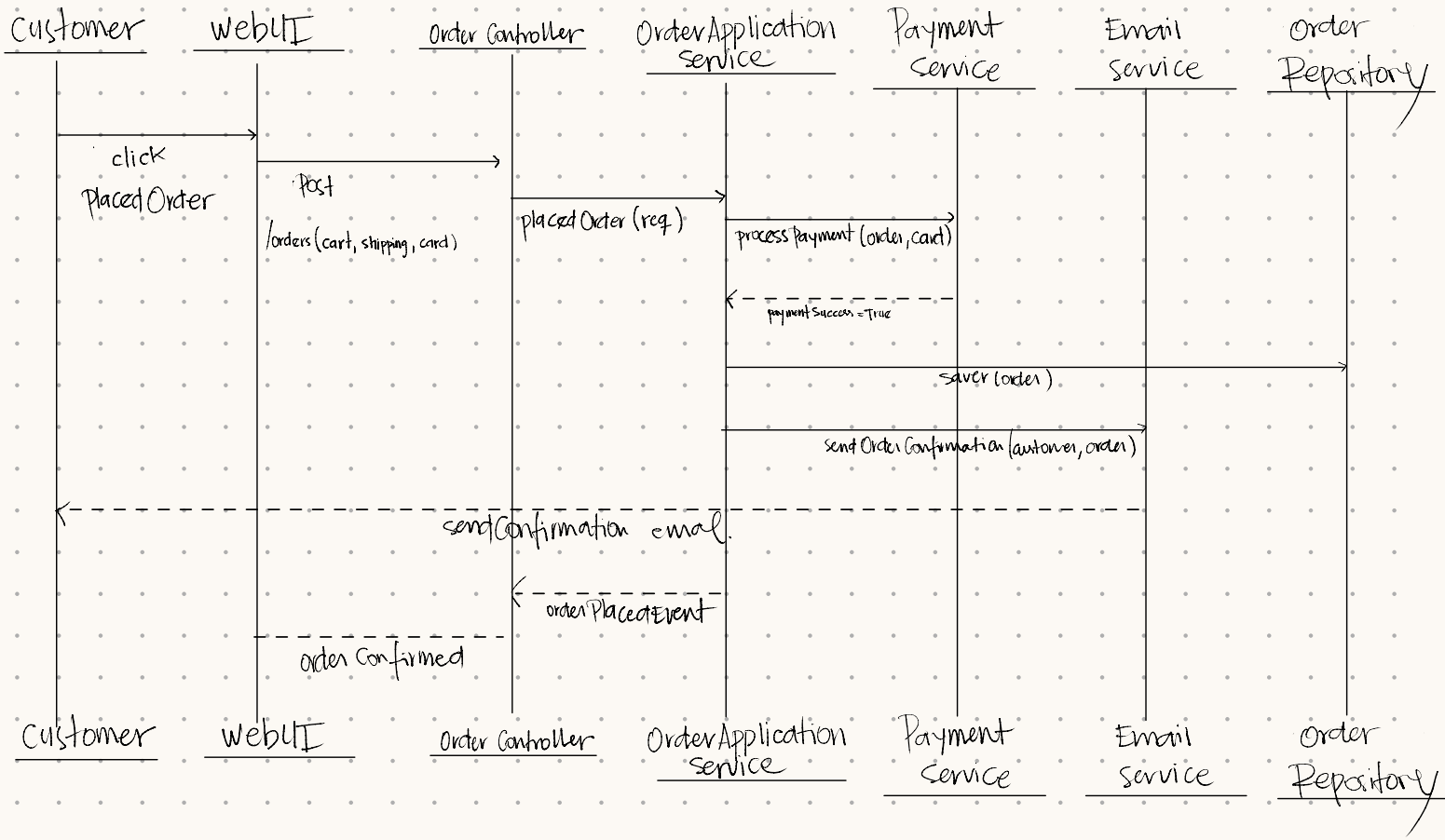
Domain Service

Payment Service

processPayment (order: Order, card: creditCard): boolean

Email Service

+ sendOrderConfirmation (customer: Customer, order: Order)

Order Placed Event

+ Order: Order
+ occurrOn: localDate