Class diagram

2026-11-19 · `examples/types/uml-class.json`

2 views · 17 cards · 12 lines

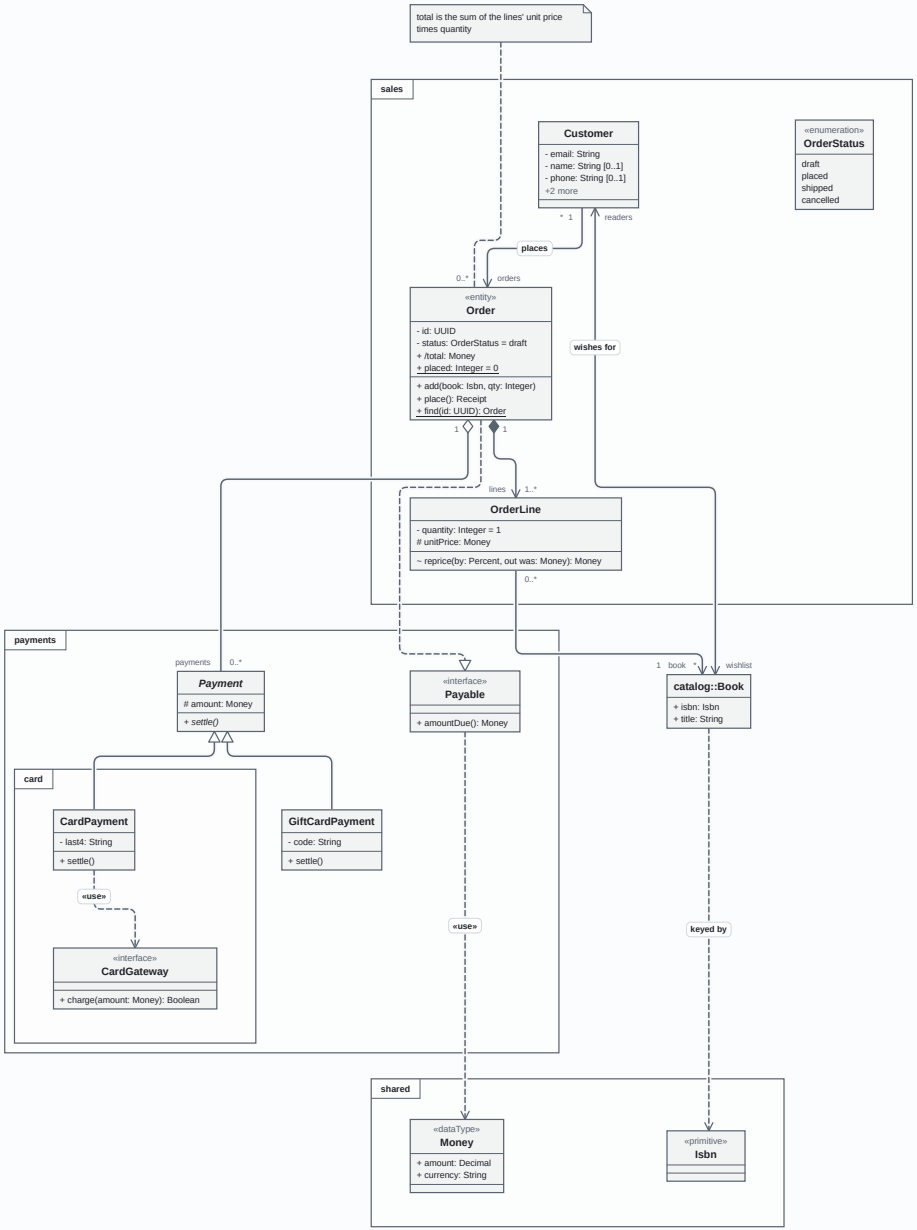
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A bookshop's sales domain 2

The same domain, laid out right 4

A bookshop's sales domain

17 cards · 12 lines



Legend — **Association** a link between instances — **Generalization** is a kind of the one it points to

Realization implements the interface it points to — **Dependency** uses the one it points to

Comment link what a comment is about — **Usage** «use»: needs the one it points to

Composition the whole owns its parts — **Aggregation** the whole holds its parts

Navigable end reachable from the other end

Elements 17

Card	Kind	Members
sales	Package	
payments	Package	
card	Package	
shared	Package	
Customer	Class	- email: String - name: String [0..1] - phone: String [0..1] - addresses: String [1..*] - since: Date
Order	Class	- id: UUID - status: OrderStatus = draft + /total: Money + {static} placed: Integer = 0 + add(book: Isbn, qty: Integer) + place(): Receipt + {static} find(id: UUID): Order
OrderLine	Class	- quantity: Integer = 1 # unitPrice: Money ~ reprice(in by: Percent, out was: Money): Money
OrderStatus	Enumeration	draft placed shipped cancelled
catalog::Book	Class	+ isbn: Isbn + title: String
Payable	Interface	+ amountDue(): Money
Payment	Class	# amount: Money + {abstract} settle()

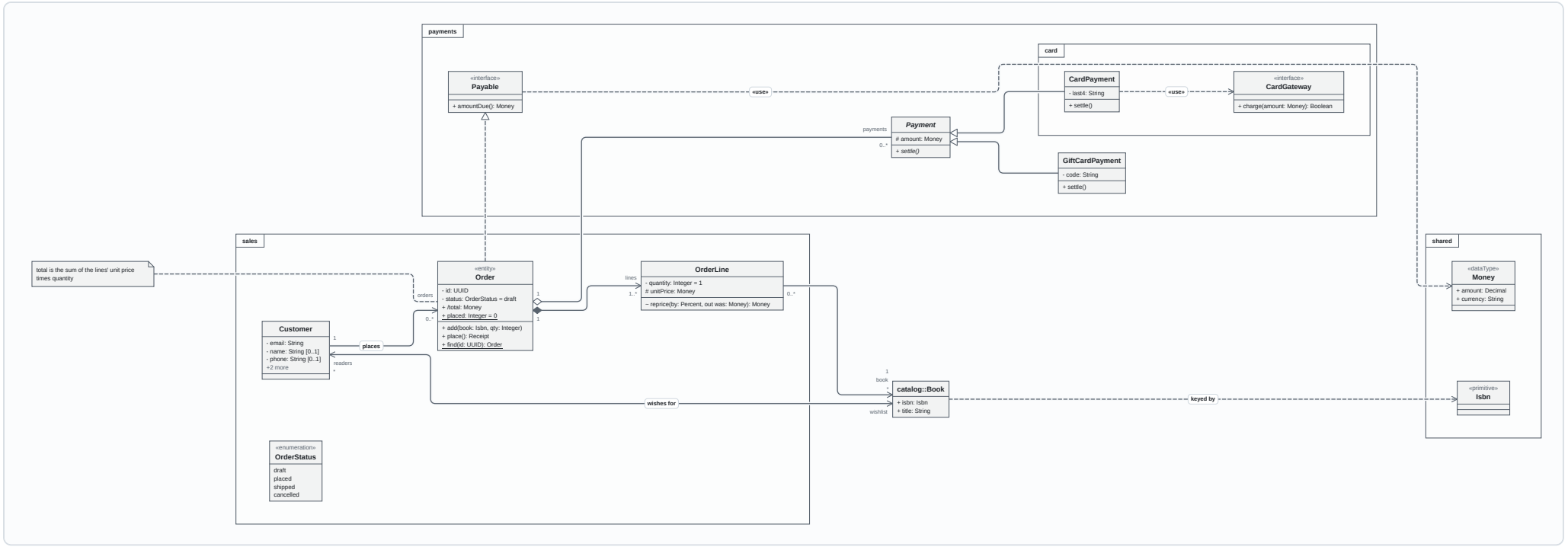
A bookshop's sales domain (continued)

Elements 17 (continued)

Card	Kind	Members
CardPayment	Class	- last4: String + settle()
CardGateway	Interface	+ charge(in amount: Money): Boolean
GiftCardPayment	Class	- code: String + settle()
Money	Data type	+ amount: Decimal + currency: String
Isbn	Primitive type	
total is the sum of the lines' unit price times quantity	Comment	

Lines 12

From → to	Label	Kind
Customer → Order	places	Association
Customer → catalog::Book	wishes for	Association
Order → OrderLine		Association
OrderLine → catalog::Book		Association
Order → Payment		Association
Order → Payable		Interface realization
CardPayment → Payment		Generalization
GiftCardPayment → Payment		Generalization
CardPayment → CardGateway		Usage
Payable → Money		Dependency
catalog::Book → Isbn	keyed by	Dependency
total is the sum of the lines' unit price times quantity → Order		Comment link



Legend —— **Association** a link between instances —▷ **Generalization** is a kind of the one it points to --▷ **Realization** implements the interface it points to --> **Dependency** uses the one it points to ---- **Comment link** what a comment is about --> **Usage** «use»: needs the one it points to —◆ **Composition** the whole owns its parts —◇ **Aggregation** the whole holds its parts —> **Navigable end** reachable from the other end

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Lines 12

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