**Quiz#2**

Develop design model for online shopping (Identify associations/relationships among domain classes)?

Each customer has unique id and is linked to exactly one **account.** Account owns shopping cart and orders. Customer could register as a web user to be able to buy items online. Customer is not required to be a web user because purchases could also be made by phone or by ordering from catalogues. Web user has login name which also serves as unique id. Web user could be in several states - new, active, temporary blocked, or banned, and be linked to a **shopping cart.** Shopping cart belongs to account.

Account owns customer orders. Customer may have no orders. Customer orders are sorted and unique. Each order could refer to several payments, possibly none. Every payment has unique id and is related to exactly one account.

Each order has current order status. Both order and shopping cart have line items linked to a specific product. Each line item is related to exactly one product. A product could be associated to many line items or no item at all.

Domain Entities:

Web user, Customer, Payment, User state, Account, Order, Shopping cart, Line item, Order line, Product, Order Status

**Solution:**

Web user

Customer

Payment

User state

Account

Order

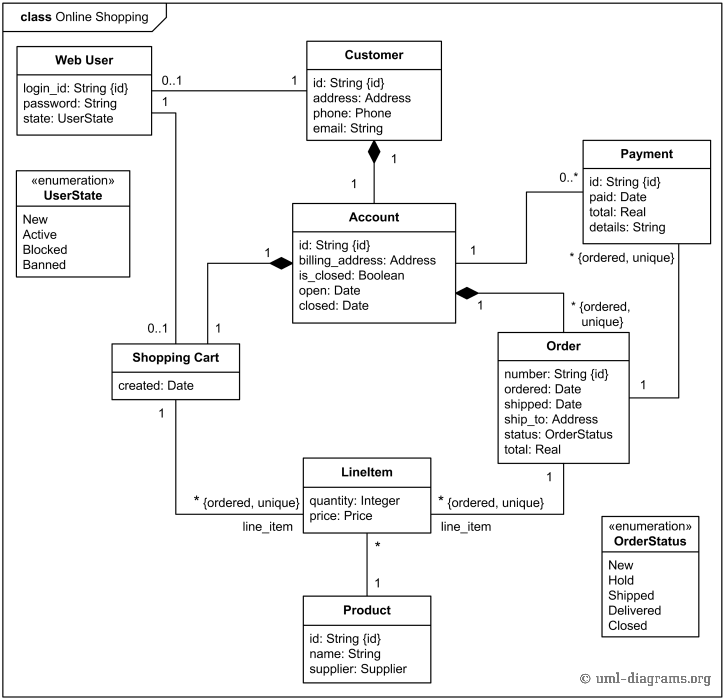
Shopping cart

Line item

Order

Product

Order Status

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