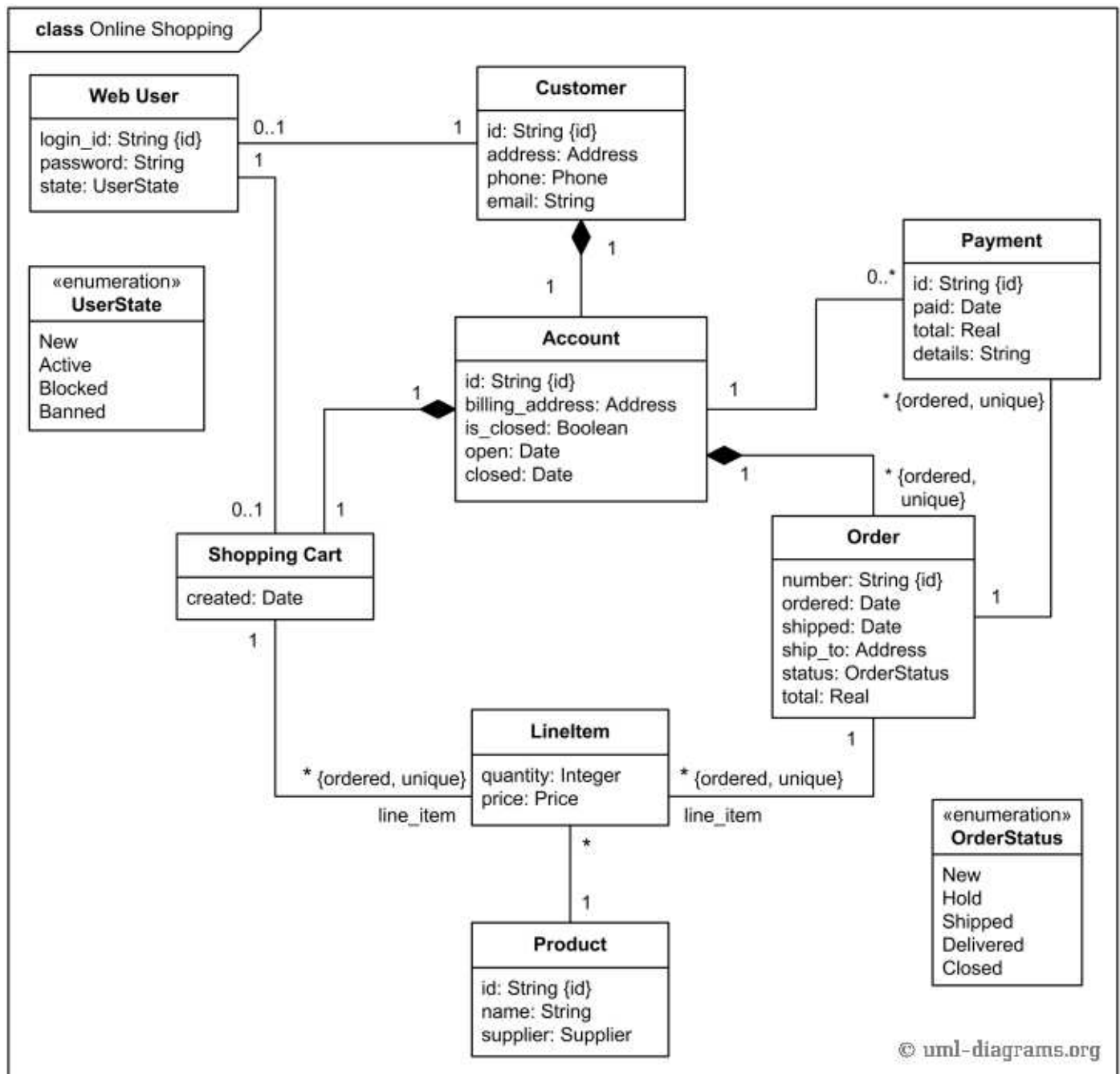


# Online Shopping

## *UML Class Diagram Example*

Here we provide an example of UML **class diagram** which shows a domain model for online shopping. The purpose of the diagram is to introduce some common terms, "dictionary" for online shopping - Customer, Web User, Account, Shopping Cart, Product, Order, Payment, etc. and relationships between. It could be used as a common ground between business analysts and software developers.

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.



*Online shopping domain UML class diagram example.*

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.

*Noticed a spelling error? Select the text using the mouse and press Ctrl + Enter.*

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This document describes **UML 2.5** and is based on **OMG™ Unified Modeling Language™ (OMG UML®) 2.5** specification *[UML 2.5 FTF - Beta 1]*.

All UML diagrams were created in **Microsoft Visio** 2007-2016 using *UML 2.2 stencils*. You can send your comments and suggestions to [webmaster](#) at [webmaster@uml-diagrams.org](mailto:webmaster@uml-diagrams.org).

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10 Comments

UML Diagrams

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OR SIGN UP WITH DISQUS Name **Gerd Wagner** • 2 years ago

I'm wondering if the "unique" keyword in the {ordered, unique} annotations of several association ends isn't **superfluous**, since this should be the default value.

 |  • Reply • Share ›
**Biljana** • 3 years ago

Is it possible to make order outside of shopping card? Is the order part of shopping card? In other case, for what is shopping card?

 |  • Reply • Share ›
**Kriang KD Damchoom** • 3 years ago

In the class Order, should I define an object LineItem as one attribute inside, like lineitm: LineItem? This is for relating both line item and order when implementing.

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**Kriang KD Damchoom** ➔ Kriang KD Damchoom • 2 years ago

T T nobody replied

 |  • Reply • Share ›
**waqas** • 3 years ago

line item means the sale item in line so we have different sale items so we have different product category, but one item is specified only for one product

 |  • Reply • Share ›
**Mehdi** • 4 years ago

Hello , please can you me explain why between product and Lineitem relation OneToOne

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**KF Mod** ➔ Mehdi • 4 years ago

Mehdi, you are right - it is a mistake. I updated the diagram and added some explanation. Thank you.

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**Vladimir Donets** ➔ KF • 4 years ago

