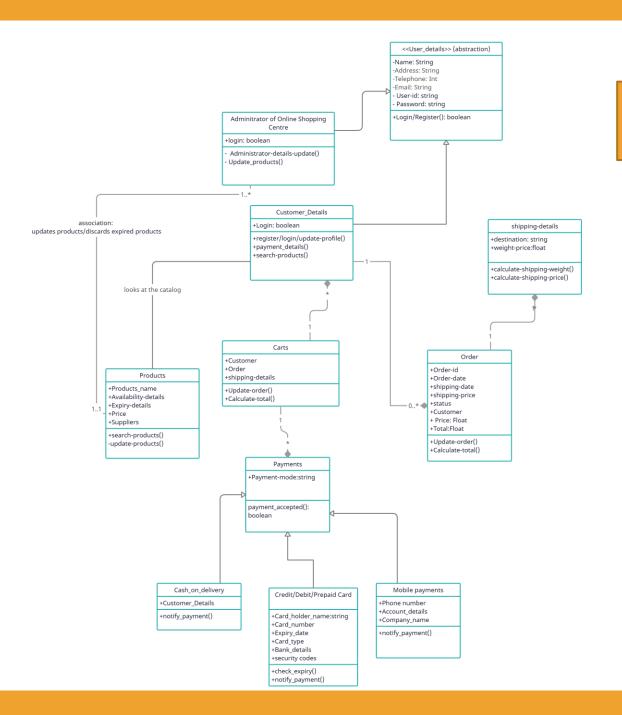


Attempt 1: Unit 3 Practical exercise

- I've used the app 'creately' to create an object model to represent an online supermarket: https://app.creately.com/diagram/Vqtclz6sb2O/edit
- The model, sources, explanations are on the following pages.



Attempt 1: The object-oriented model of an online supermarket.

My sources...

- Buckley, O. (2021) Unit 3: Object-Oriented Information Systems, Lecture Notes, Object-oriented Information Systems OOIS_PCOM7E, University of Essex Online, delivered August 2021
- Lucidchart (July 21, 2017) "UML Class Diagram Tutorial". Available from: [Accessed 5 September 2021]
- Philips, D. (2018) « Chapter 1: Object-Oriented Design », *Python 3 Object-Oriented Programming*, Birmingham: Packt Publication. 3rd Edition.
- To watch: https://www.youtube.com/watch?v=WnMQ8HlmeXc

UML Class Diagram Tutorial



The symbols used to represent the relationships:

Relationships

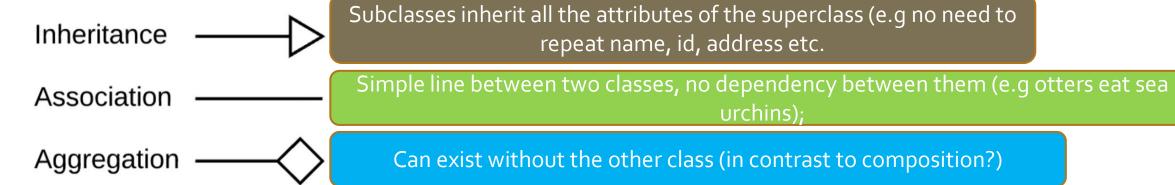
Abstraction (linked to inheritance)

DRY=Do not repeat yourself

Put <<....>> or italics to the

class/instance that other classes will

inherit from



Composition —

Composition: when a child object cannot exist without the parent object. Eg.

Destroying the customer will remove all orders....

Use closed diamond to represent it



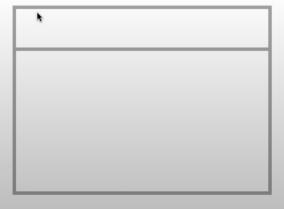


Example from Lucidchart (July 21, 2017) to create a class, with or without visibility

Animal -name: string -id: int -age: int -setName()

Visibility

- private
- + public
- # protected
- ~ package/default













~eat()



Multiplicity

zero to one (optional)

specific number

0..* zero to many

one to many

m...n specific number range

Lobby

Visitor Center

Bathroom

Scroll for details

















Unit 3: Practical Activity Object-oriented Design: Brainstorming Session... Use users
(superclass) –
then 2 subclasses
(admin+custome
rs)

Some of the ideas I jotted down before creating the model.

