

Table 5.2: Concepts and definitions for Exercise 5.5

Concept	Definition
a) application domain	1. mechanism for grouping modelling items, e.g. classes
b) multiplicity	2. area of study, e.g. business application
c) domain model	3. group of classes relating to a single use case
d) collaboration	4. a class diagram that sets out to model all of the classes in the problem domain together (not in separate use cases)
e) noun analysis	5. describes the number of instances allowed to participate in an association or aggregation relationship
f) package	6. identifying objects and classes from nouns in a written description of the problem

5.7 This exercise will help you to revise aggregation and inheritance.

An art gallery organizes exhibitions that consist of exhibits. An exhibit may be an oil painting, a watercolour, a piece of sculpture or a photograph. Draw a class diagram to represent this information.

5.8 Study the class diagram in Figure 5.20 and answer the questions that follow it.

- Does a customer have to place an order?
- What does an order consist of?
- Can a payment be for more than one order?

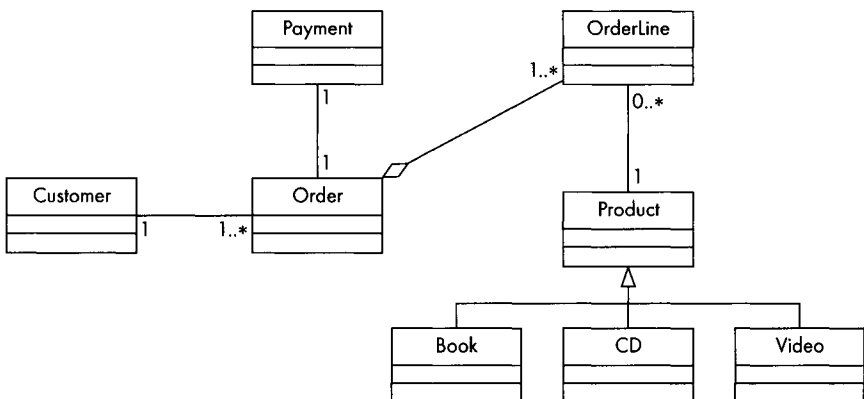


Figure 5.20 Class diagram for Exercise 5.8