

Object Oriented Analysis & Design

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Assignment -1

1. Explain principles of modelling?

A. The basic principles of modelling are

a) The choice of what models to create has a profound influence on how a problem is attacked and how a solution is shaped.

b) Every model may be expressed at levels of precision.

c) The best models are connected to reality.

d) No single model is sufficient. Every non-trivial system is best approached through a small set of nearly independent models.

2. Explain conceptual model.

A. A conceptual model can be defined as the model which is made of concepts and their relationships. It has 3 parts

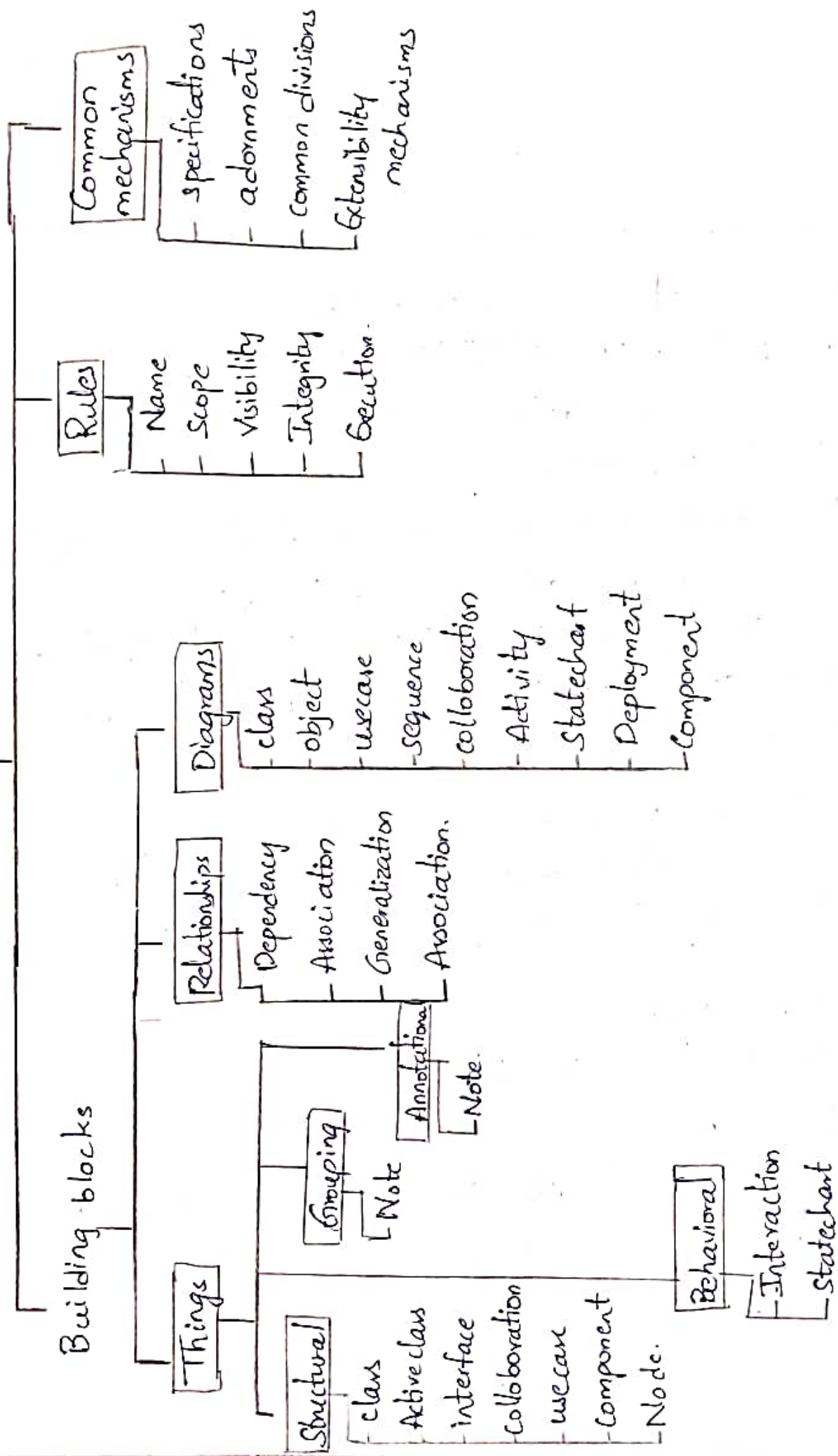
→ Building blocks

→ Rules to connect the building blocks

→ Common mechanisms.

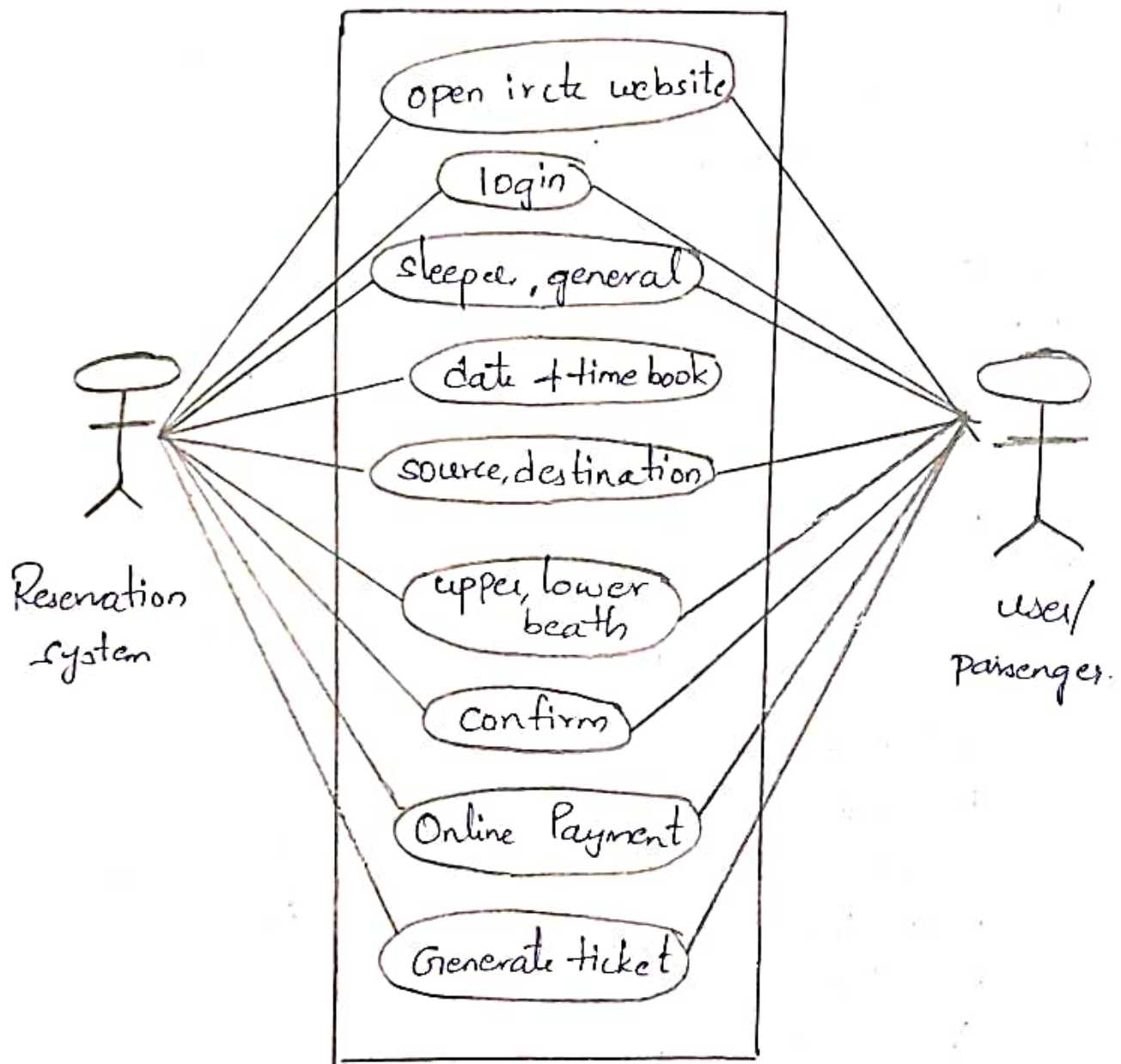
UML describes the real time systems it is very important to make a conceptual model and then proceed gradually.

Conceptual model



3 Draw usecase diagram for railway reservation system.

A.



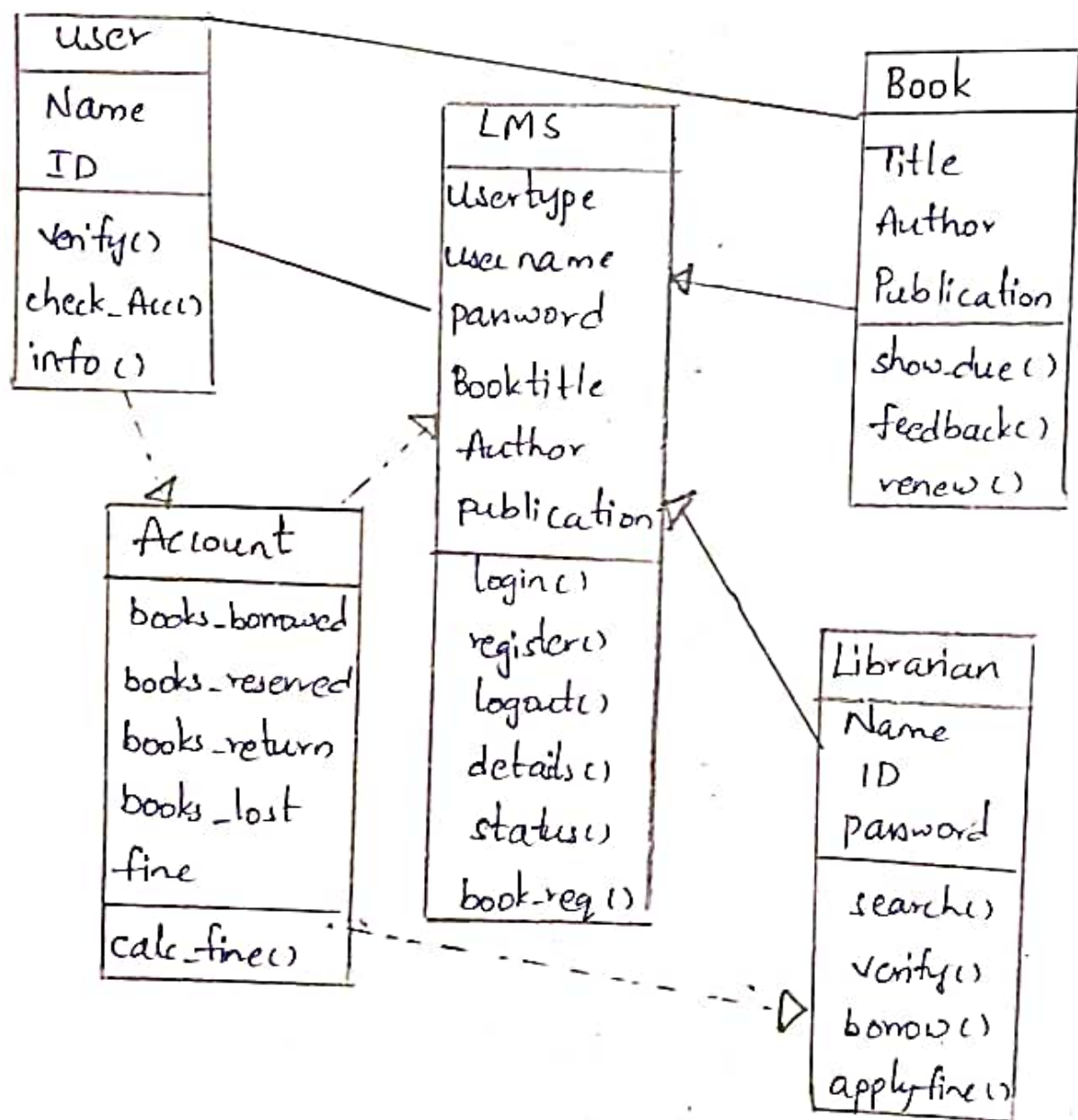
It is defined as the set of actors and different usecases and depending on the type of relationships. The relationships used are

Generalization	Realization
Dependency	Annotation.

4. Draw class and object Diagram for Library Management system.

A. Class Diagram:

A class diagram represents set of classes and object relationship between them.



Object Diagram for library management system

Object diagram is nothing but a class diagram. It is an instance of class. The main difference between class and object diagram is each object labelled and defined in ~~the~~ object diagram.

