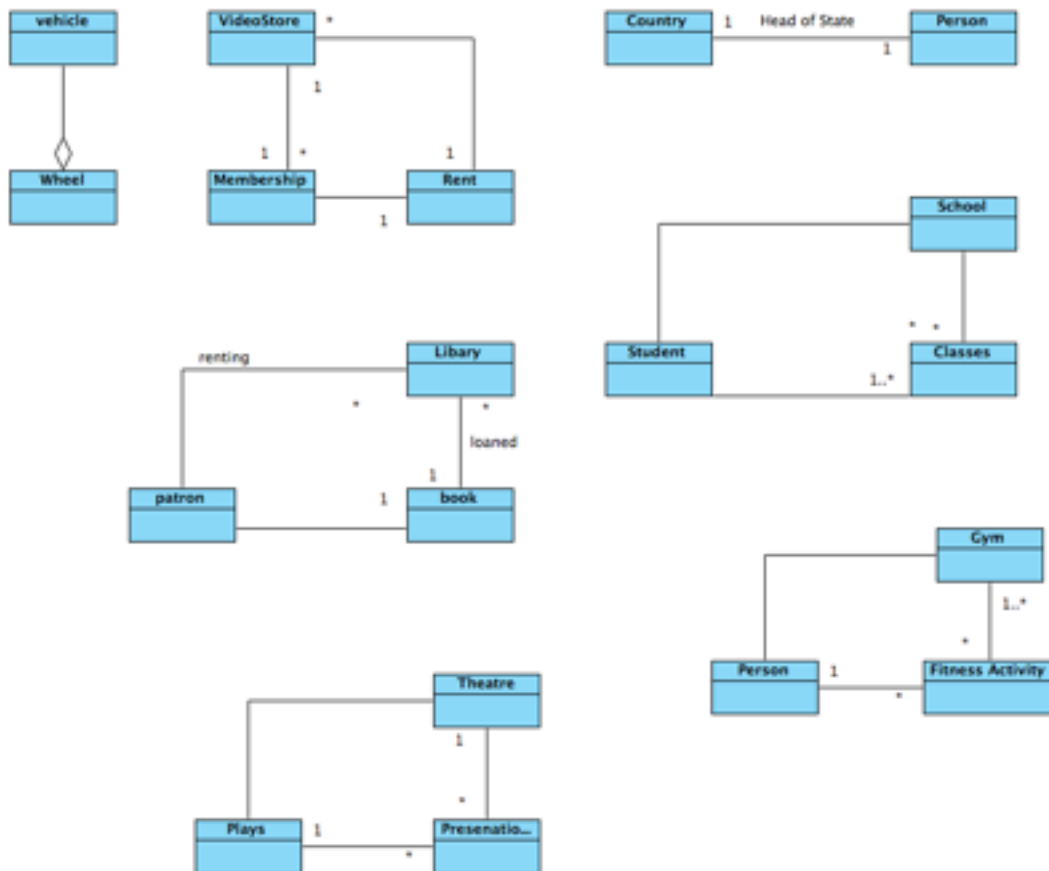# OO ANALYSIS & DESIGN LAB 7

Robert Gabriel , James hill and Rokas
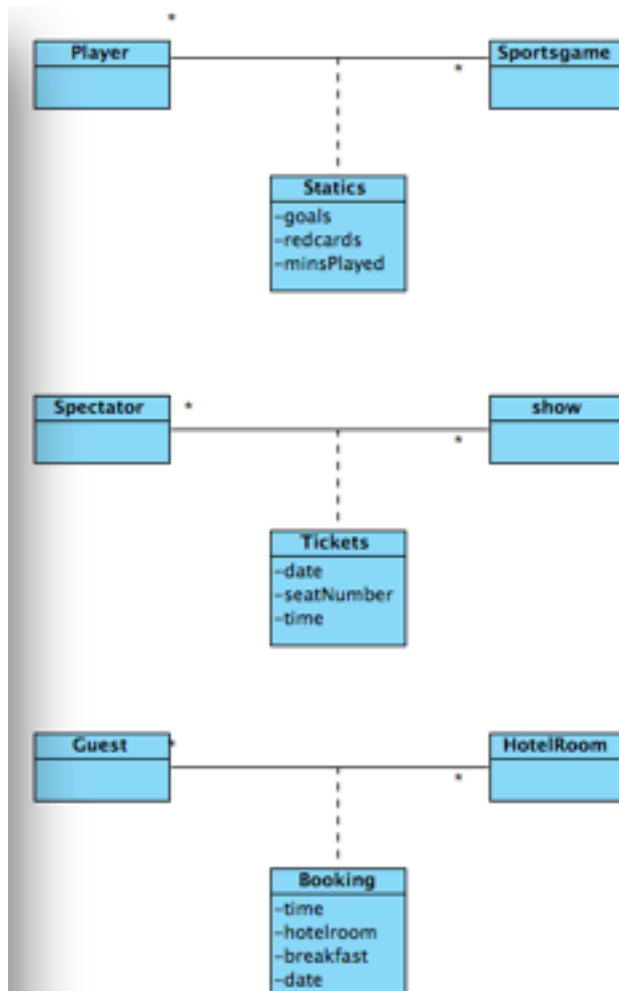Web2

Questions

Q1

Q2

- Vehicles class is responsible .

- Video store class is responsible

- Country class is responsible

- School class is responsible

- Gym class is responsible

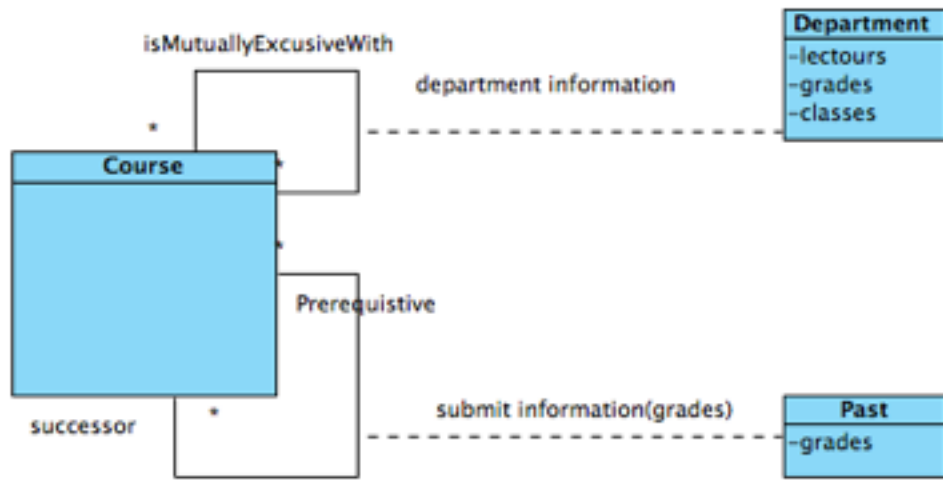- Library class is responsible

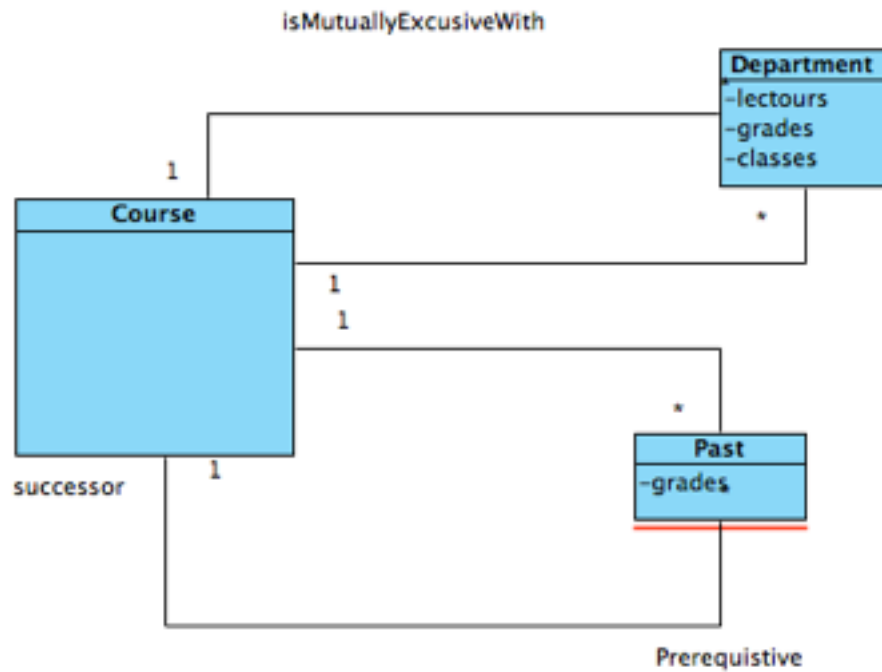- Theatre class is responsible.

Q3

Q4

Asymmetric Reflexive Associations: The ends of the association are semantically different from each other, even though the associated class is the same. Examples include parent-child, supervisor-subordinate and predecessor-successor.

Symmetric Reflexive Associations: There is no logical difference in the semantics of each association end
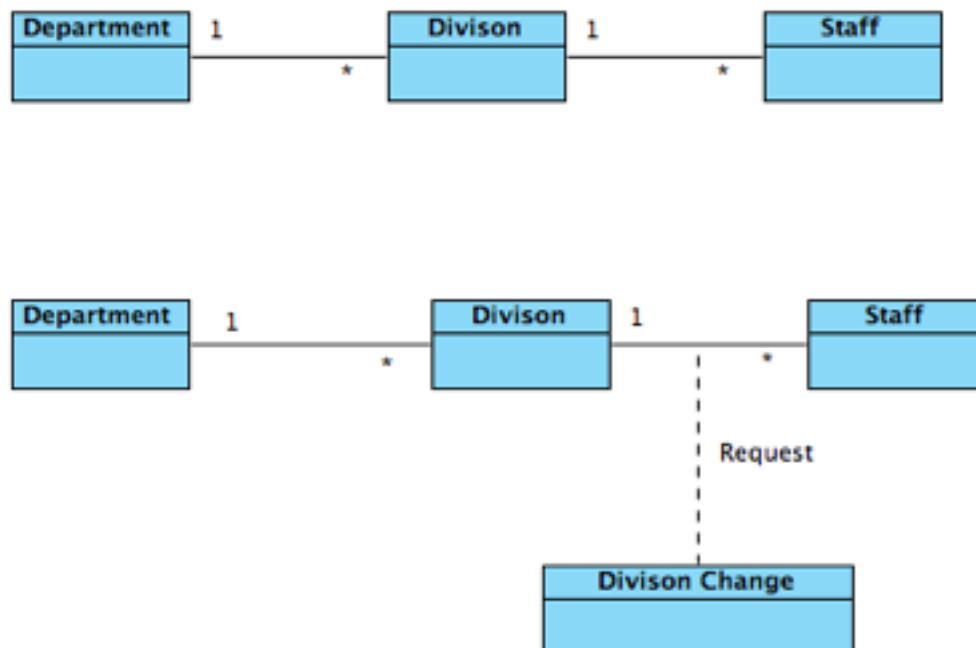

Q5

Q6 Apply the transformation shown in the figure below to your answer in question 5.

isMutuallyExcusiveWith

Department
-lectours
-grades
-classes

Course

1

1
1

Past
-grades

successor

1

Prerequistive

Q7

Department	1		Divison	1		Staff

Department	1		Divison	1		Staff

Request

Divison Change

Q8

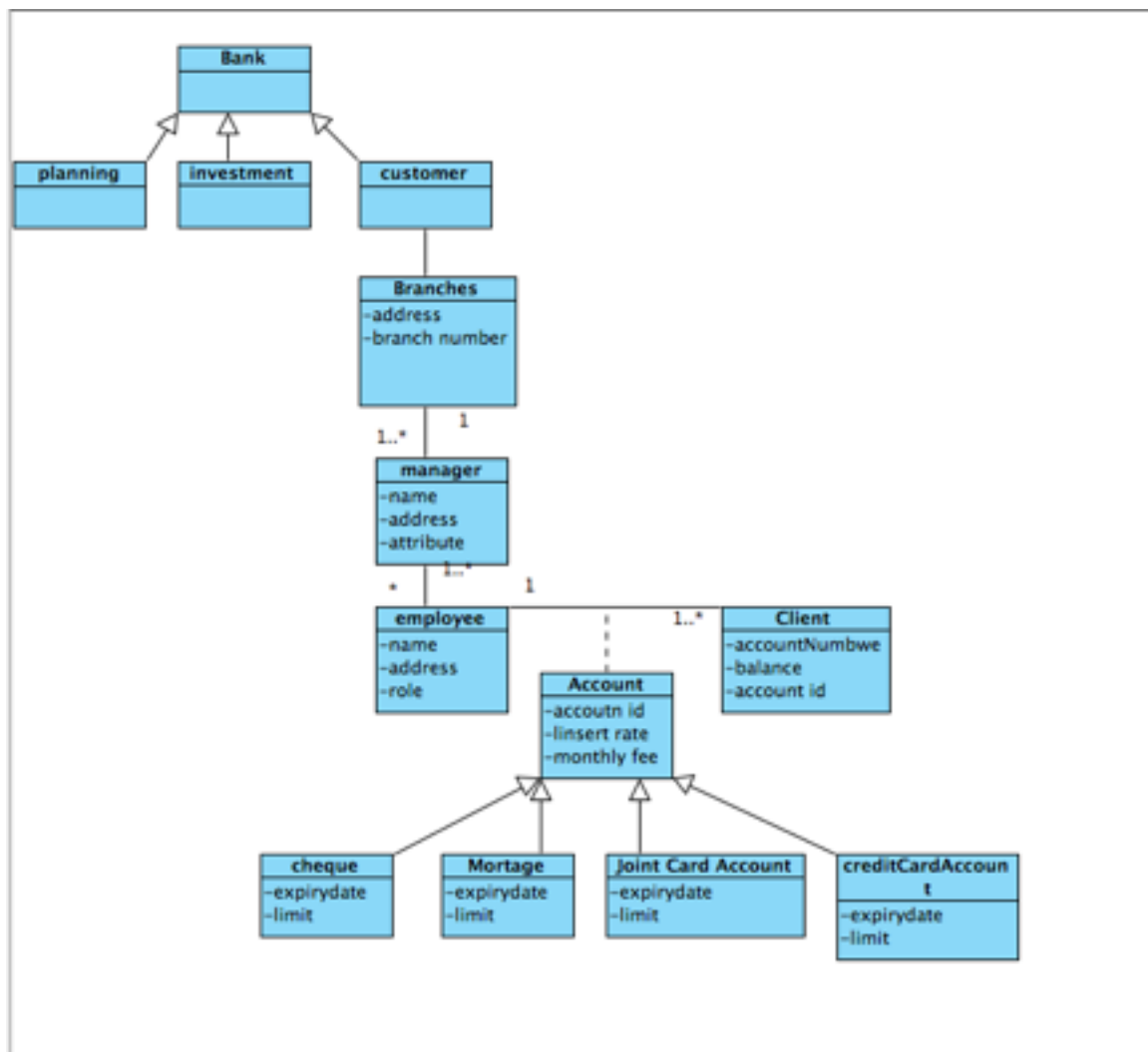### Bank Accounts management System

This system provides the basic services to manage bank accounts at a bank called OOBank. OOBank has many branches, each of which has an address and branch number. A client opens accounts at a branch. Each account is uniquely identified by an account number; it has a balance and a credit or overdraft limit. There are many types of accounts; including a mortgage account(which has a property as a collateral), a chequing account, and a credit card account(which has an expiry date and can have secondary cards attached to it). It is possible to have a joint account(e.g. for a husband and a wife). Each type of account has a particular interest rate, a monthly fee and a specific set of privilege)e.g. ability to write cheques ,insurance for purchases etc.) OOBank is divided into divisions and subdivisions (such as planning, investments and consumer0; the branches are considered subdivisions of the consumer division. Each

division has a ==manager== and a set of other employees. Each ==customer== is assigned a particular ==employee== as his or her 'personal banker'