

### section continu

## • Case 1:

 In a hotel management system a guest can. rent rooms. Hotel receptionist uses the system to assist in the renting. A guest can also book a room for future renting with the help of the receptionist, but he has to check if the room has prior booking or not. A Guest pays for the rooms at the time they check out. He can pay by cash, check or credit card. Receptionists has to logon to the system

before they can use it, but to logon he has go through username/password verification.

## Use Case Diagrams - practice

## • Case 2:

 Music Today is a audio recording company. There are several recordists in the company. Clients record the music with the help of the recordists. The recording is done in a session. A session is usually created by the office clerk. A session needs to be booked by the client beforehand and before booking the time needs to be verified by the office clerk for availability. The company maintains a list of preferred clients who book sessions like regular clients but also can create sessions according to their needs. Clerks have to log in to use the system. Clients can pay in cash or card. The accountant deals with the payment. The payment is only cleared when the accountant receives clearance from the office olierk

## Use Case Diagrams - practice

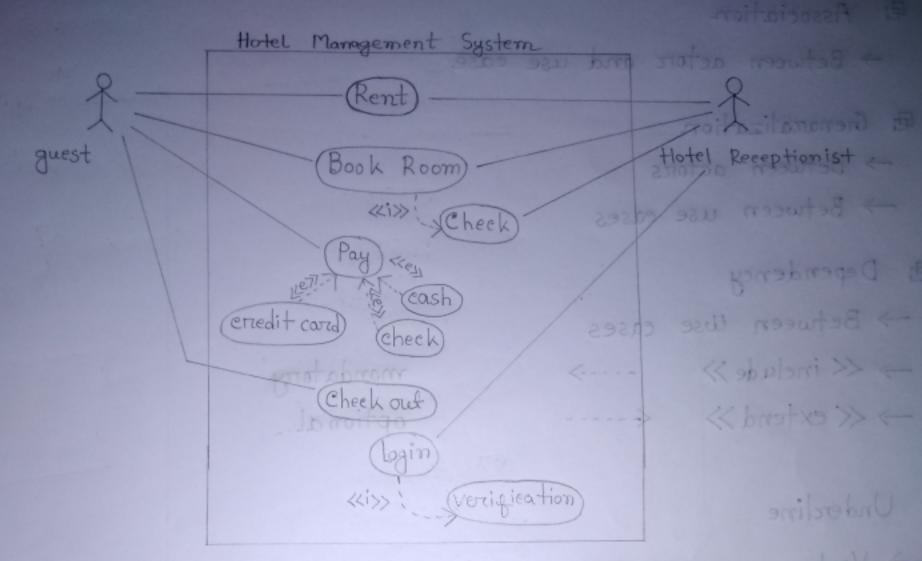
## • Case 3:

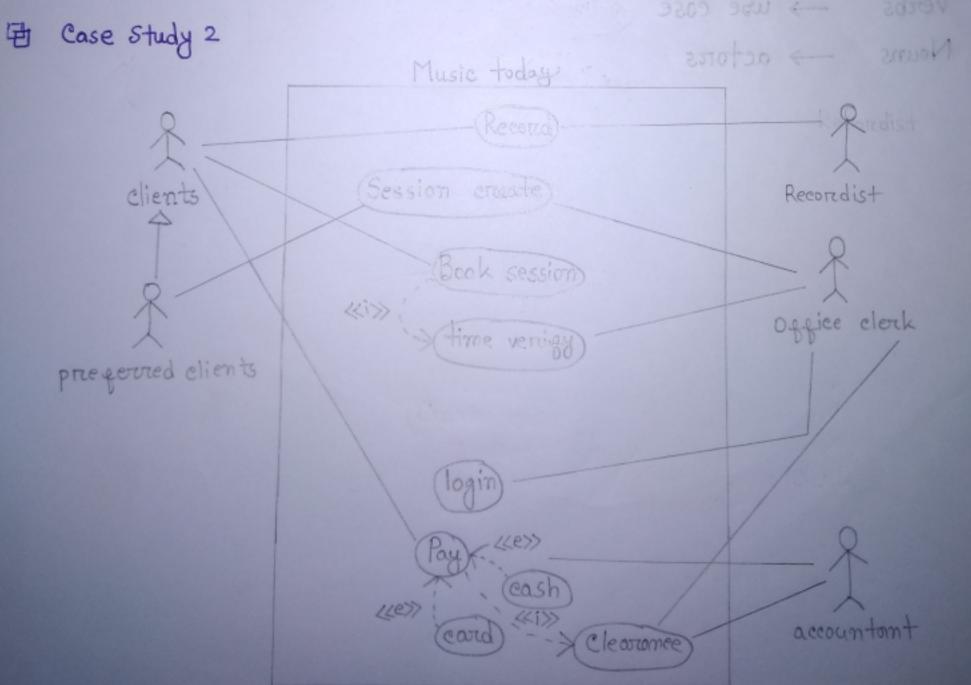
 ABCD Records is a mail order company that distributes CDs and tages at dissount onces to record dub niembers. A member risk up an order form and sends it to the order processing clerk. When the order propessing clark receives an order form, she verifies that the sender is a club member by checking the member file. She also checks the platus of the member whether he is a rayal class member or regular class member. If the sender is not a member, the clark returns the order along with a membership application form. If the customer is a member the clerk version the order item data by checking the item file. Then the clerk enters the order data and sales it to the daily seconds file. At the same time the clerk also prints an invoice and shipping list for each order, which are forwarded to the collection department cliefs for processing there. If the items are not available and if the member is a royal class member, items are proceed by the Oder Processing Clark. Royal class members also get discounts. The members can pay by cash, check or bank draft.

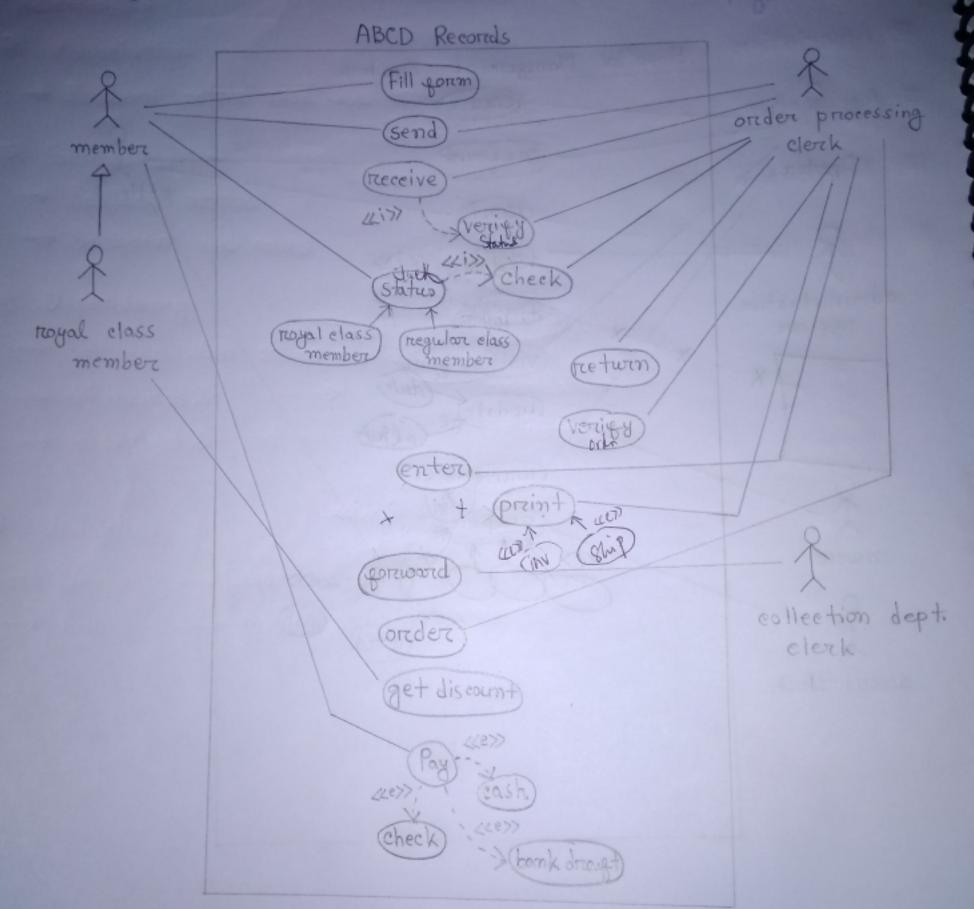
## Use Case Diagrares - psectice

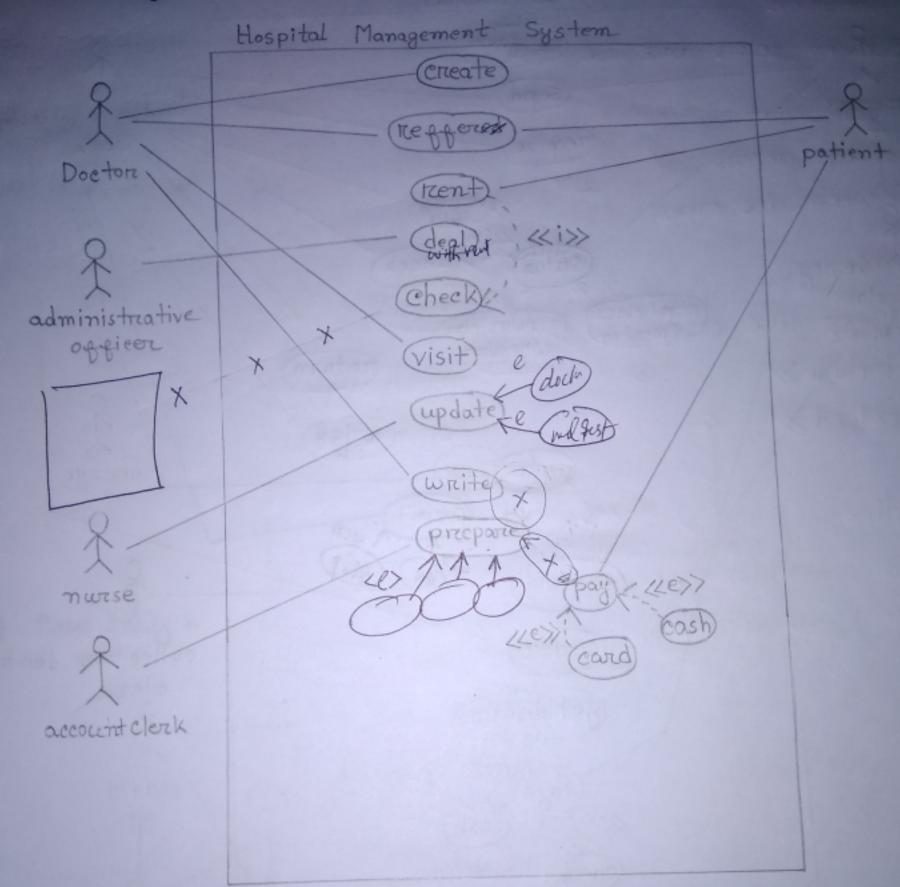
## • Case 4:

 In a hospital management system a patient's medical history is created by a doctor. A patient may be referred by a doctor to be admitted in the hospital. A patient can jern hospital facilities. An administrative officer deals with the renting. The system automatically checks whether the patient is referred by a doctor before he can sent any hospital facility. The types of facilities are rooms, beds or KUs. Admitted patients are regularly visited by doctors and a nurse updates patient medical history after each visit. A doctor system the discharge note of the patient when he leaves. An account clerk prepares the bill. The bill is calculated from the elements written in the medical history i.e. number of doctor's visit, prescribed medication, tests. When the nurse updates the medical history she writes either the date-time of doctor's visit or prescribed medication or test. The patient may pay by cash or card when the bill is prepared.









## Case Study

## Case t:

- Des Student may attend any number of courses
   Des source may have any number of students
- Instructors teach courses
- For every owner there is at level one instructor.
   Every instructor may teach gare or more courses.
- A school has rere among students.
   Each student may be a neglatered member of one or more school.
- A school has one or racer departments.
- Ruch department belongs to exactly one set wat.
- Every instructor is assigned to one-or more departments
- Even deposit and has are or more instructors:
   For every department there is exactly one instructor acting as the deposit which they

## Case 2:

- A building is owned by one person
- A busing is owned by one person
   A person may own more than one building.
  - Each building is either a house or an apartment
  - An opertment cardoins two or more Flental Units
  - A tental unit only belongs to one and only one spartment block.

## Case Study

## Case 3:

- A company has one or more divisions
- · A division has one or more departments
- A company can have one or more persons working as employees
- A person is associated with the company as an employee
- A department can have one or more persons assigned to it

hanks and increase are harmward

## A person is assigned to one department Case 4:

 There are members in the library. Members can borrow books. There can be short term borrowing or long term borrowing. There are also journals in the library. There is a special type of member-Member of Staff, who can borrow the journals. The system must loap track when

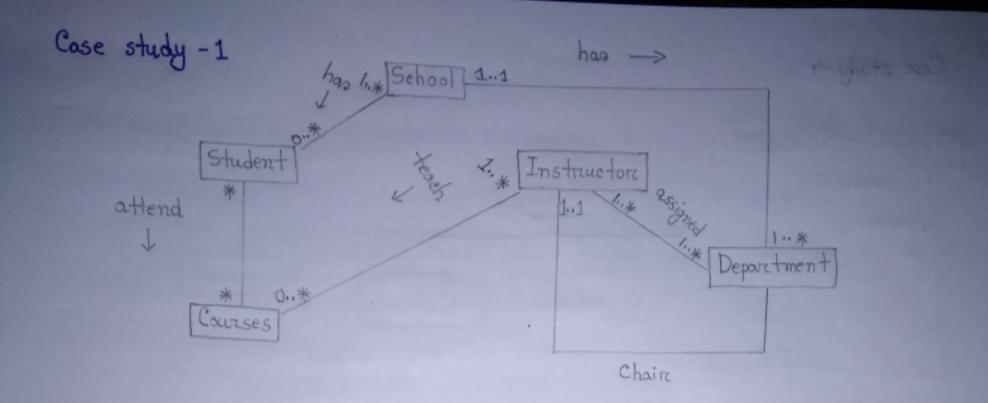
## Cone Study

## Game 5:

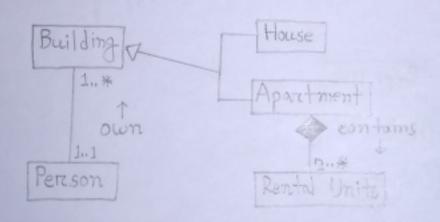
A member can be of free types: potential member, past member and club insenter. Club member along place notices. One cade must include a line of one product. One poduct can be immany orders. There are not very past of pastilistic fields only one of the fields. In the line of the poduct can be immany orders. There are not very past of pastilistic fields on the field of the line of the pastilistic fields of the member of the pastilistic fields of the more than one market. Club facilities are country, tables and halfs, clours are facilitation on the market. The field of the more than one market and fields for more than one market and fields for more than one market. Club facilities are country tables are fire Tends and Food. Club members can also be obtained for facilities. For exact booling, date and duration of booling must be retired.

## Case 6

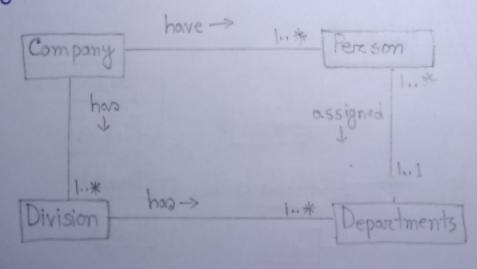
A manipoid in a passation depends on a mander of off-ferred bypact of personal
for its accounted operation. These types of personal are of grantest interests
employees, extenders, and donors. Employees and volunteers work or
various projects. Dee project consists of many sections. A volunteer works
under the supervision of an employee. To become a recognised dimer. a
donor must have donated once or man larens, and as favor may have no
donors, or and or many favored to the many favore no
donors, or and or many favored to the donors. Projects are sponsored by sponsore.



## Case study -2

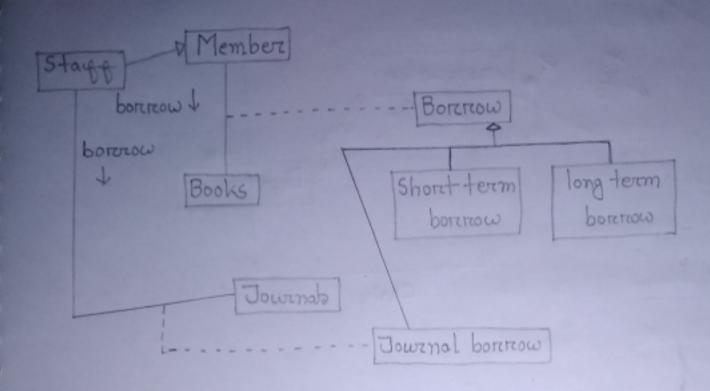


## Case study-3

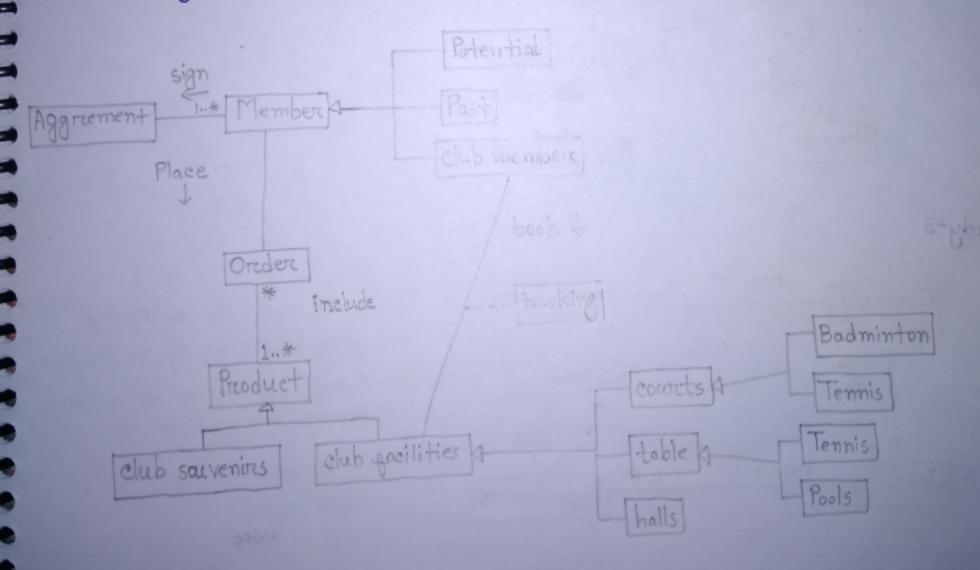


- with the company as Employee
- A dept can have one or more persons assigned to it
- A person is assigned to one dept.

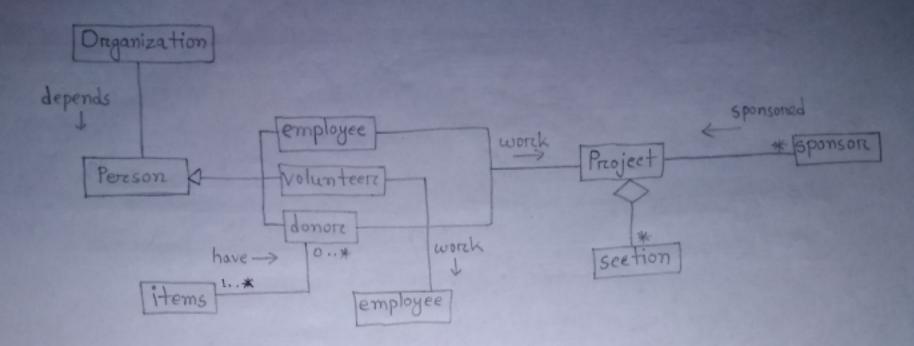
2550c



## Case study - 5



# Case study - 6



\* To become a recognised donore, a donore must donate one ore more items

## (Without Structured Control Operators)

## Case 1

 In a withdrawal toespection of an ATM Machine system the customer interfallow ATM caudin the inachine. The machine their verifies the customer sufficient control of the information provided in customer accusate. After accessful verification the machine taken withdrawal request from the outsimer and checks whether the request is valid or not. A solid request is carried out by the machine.

## ---

See: 2

In a library recongerment syntem of a university a member can place a sequest to books a journal to the librarian. Before the librarian can carrygiste the booking the member has to be writted of his status whether he is allowed to homew journals or not. The journal if her has to be located whether it is in the campus where the request versionate or it is in a different compute the librarian makeus sequest of the journal to be seen at the requested compute the librarian makeus sequest for the journal to be seen at the requested computed. The librarian them in forms the member about the time required for the journal to reach

## Case Studies

## (With Structured Control Operators)

## Garage St

In a withdrappy transportion of as LTM, Machine southers the sustainer more to the AT to cold if the machine. The machine the welfalls the customer authorises controlled in customer authorises using the information provided in customer account. After successful welfall on the machine black welfall requires the machine black welfall requires the customer and checks whether the request is valid or not. A male required to authorise machine, if the withdrawal sequent is not valid. He request is declined, in case of smachine the valid or customer as whether south on the customer required is declined, in case of smachine the control of the control of the customer required is declined.

### \_\_\_\_

 is a library represent question of a student can become books, when a student length file island. In evaluable, became to the illustrate, the librarians, the students proquestly proposed to the student of the Aborrowing object is created at that the entire performs all the books-way student of tasks. It dischart the students are students from the statistics. If the students is eighter student and showed have any overside book, the system allows for the followings for a present all showed the same steel. It is written in the statistics and the following is informed in the long time are severed fire depict is eighted. All strends have been followed in a informed in the same steel. If the insighted task strends have been followed in a showed of the request is a decided. If the

## (With Structured Control Operators)

### Gene 5

 When a partient places promptly the formulate libed, the system checks if the partient has a reference of a doctor or set. If doubts interescent absolute, the system checks, if heapter facilities are evaluate. If facilities are evaluate, the learn sent or the partier. The patient of those as soon in both. The basishing without in the booking deathers and the potent is confirmed at the some time. If no facility is available, the system mattles the potent is deather where matters in the available, patiently required advised.

### Cam 6

In a medicine of large system access began the commission and parameter and their claims logal instance. The system-resolven is entered of the commission of large statement of the confidence of the commission of large statement of the commission of the commission of large statement of the commission of the commission of the commission of large statement of large statement of the commission of the commission of large statement of the commission o

## Case study - 1+3

