8/09/2023

6) Class Diagram for Hotel Management System

Hotel
HotelID
name
address

Room
RoomNo
type
Price

Reservation
reservationID
datefrom
dateTO
roomno
GuestID

Hotel Management
Name
address
No of employee
No of rooms

belongs to — visits — works

Room
RoomNo
type
price

Customer
CustID
Name
Address
Ph. no

Employee
EmpID
EmpSalary
Name.

assigned to (1) — (1...N) managed

Reservation
CustID
Room No
ResvID
Date in
Date out

(*) — (1) Placed by (*)

order
orderID
item
roomID
paymentID

(1) Receipt — (-anist) RID, Rname

(1) chef — CID, Cname, orderid

Sour — SID, Sname

prepared by (1...N) — (*)

(1...N) Paid by (1)

Payment
paymentID
orderID
ReservID

Paid by (1)

7) Class Diagram for Credit Card Processing

CardHolder
-CardHolderID
Name
Address

(1) owns (1..N)

CreditCard
CID
ExpiryDate
CVV
CardHolderID
BankID

(1..N) issued by (1)

Bank
BankID
Name
Address

(1) used in (1)

Initiated by (*) — (0...N)

Transaction
Tid
amount
date
Cid
MerchantID

Performed at (1) — (1)

Merchant
MerchantID
Name

(1) Requires (*) Handles

Authorization
authcode
status
Tid

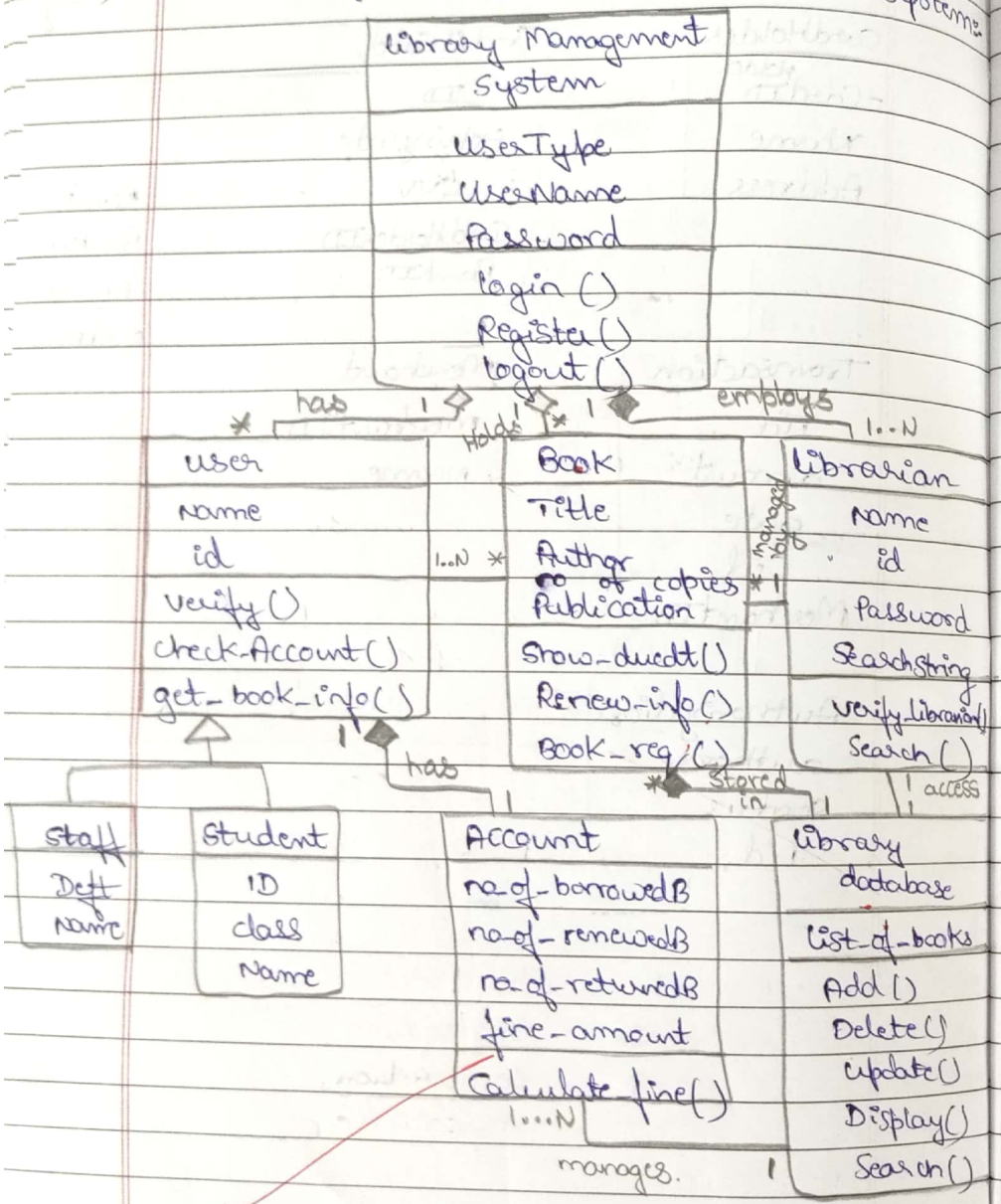
→ inheritence

◇— Aggregation

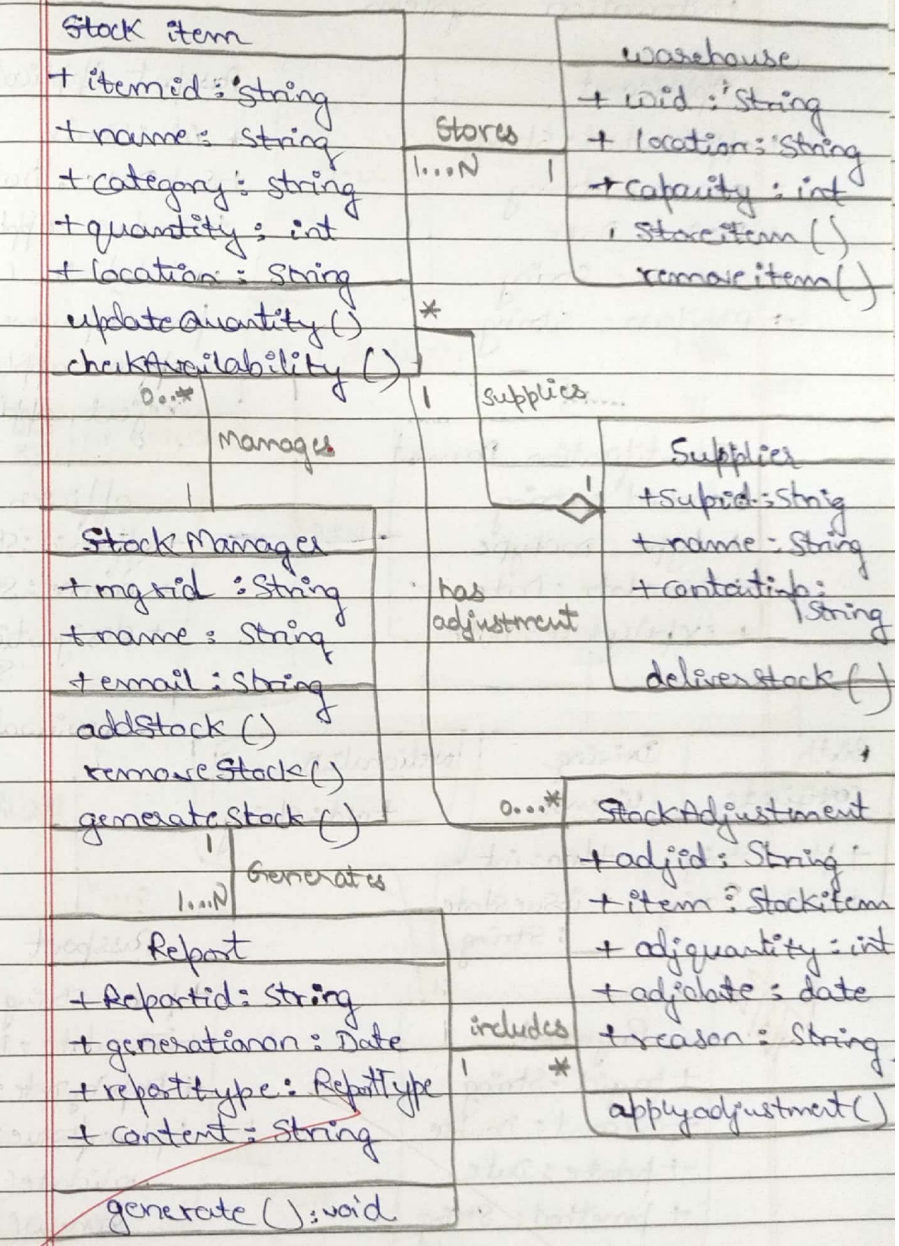
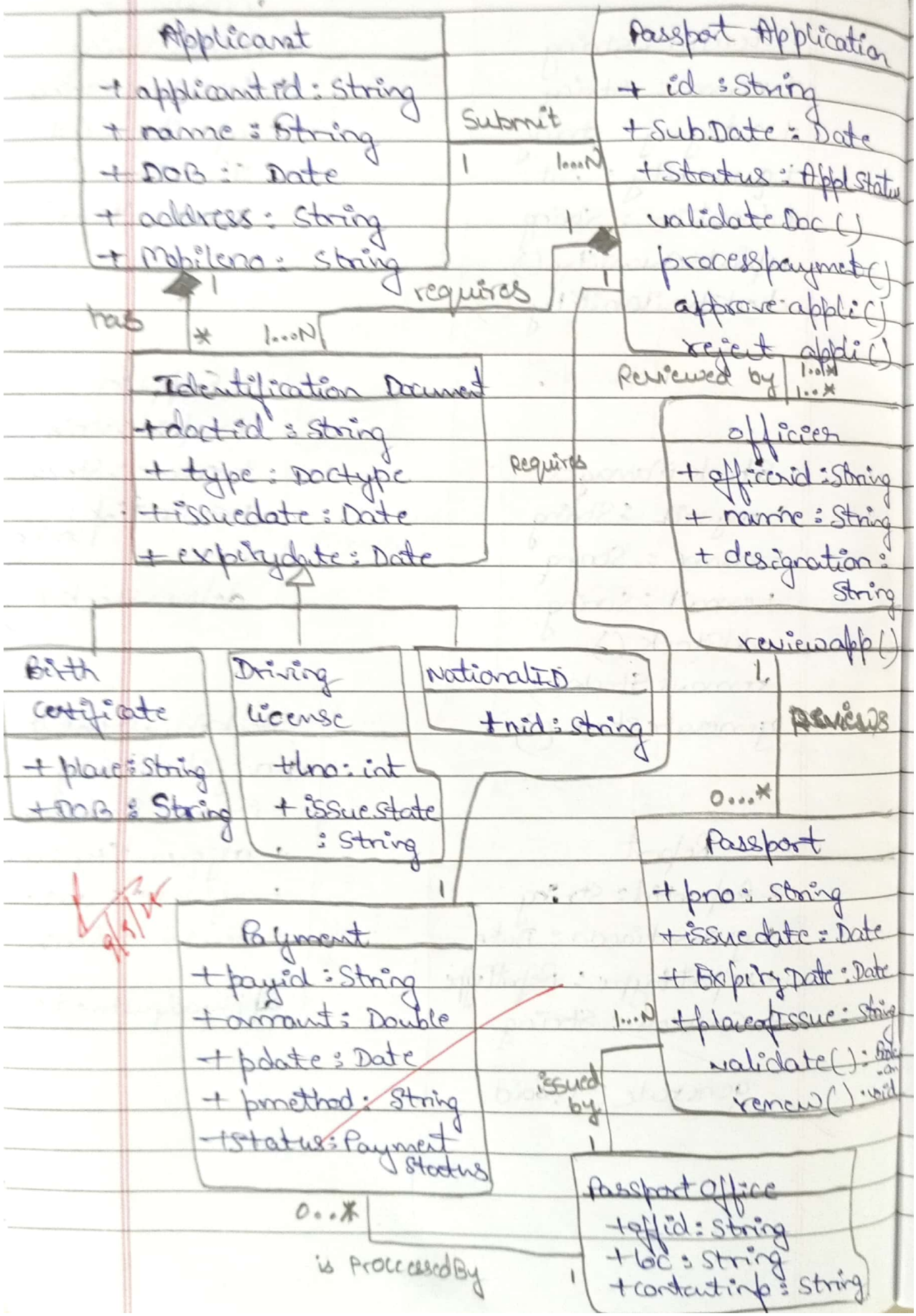
◆— Composition

— Association

8) class Diagram for library Management System:



9) class Diagram for Stock Maintenance System



10) class Diagram for Passport Automation System.