

1. Hotel Management Systems

Hotel

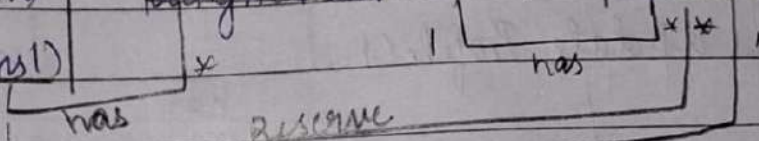
hotelid: int
 name: string
 address: string
 contactinfo: string
 addRoom(Room)
 removeRoom(Room)
 getAvailableRooms()

Room

roomid: int
 type: string
 price: double
 status: string
 updateStatus(Status)
 assignToReser()

Reservation

ReservationId: int
 checkInDate: Date
 checkOut: Date
 createReser()
 cancelReser()
 updateReserve()

Guest

guestid: int
 name: string
 contact: int
 updateProfile()
 checkIn()
 checkOut()
 makeReser(room)

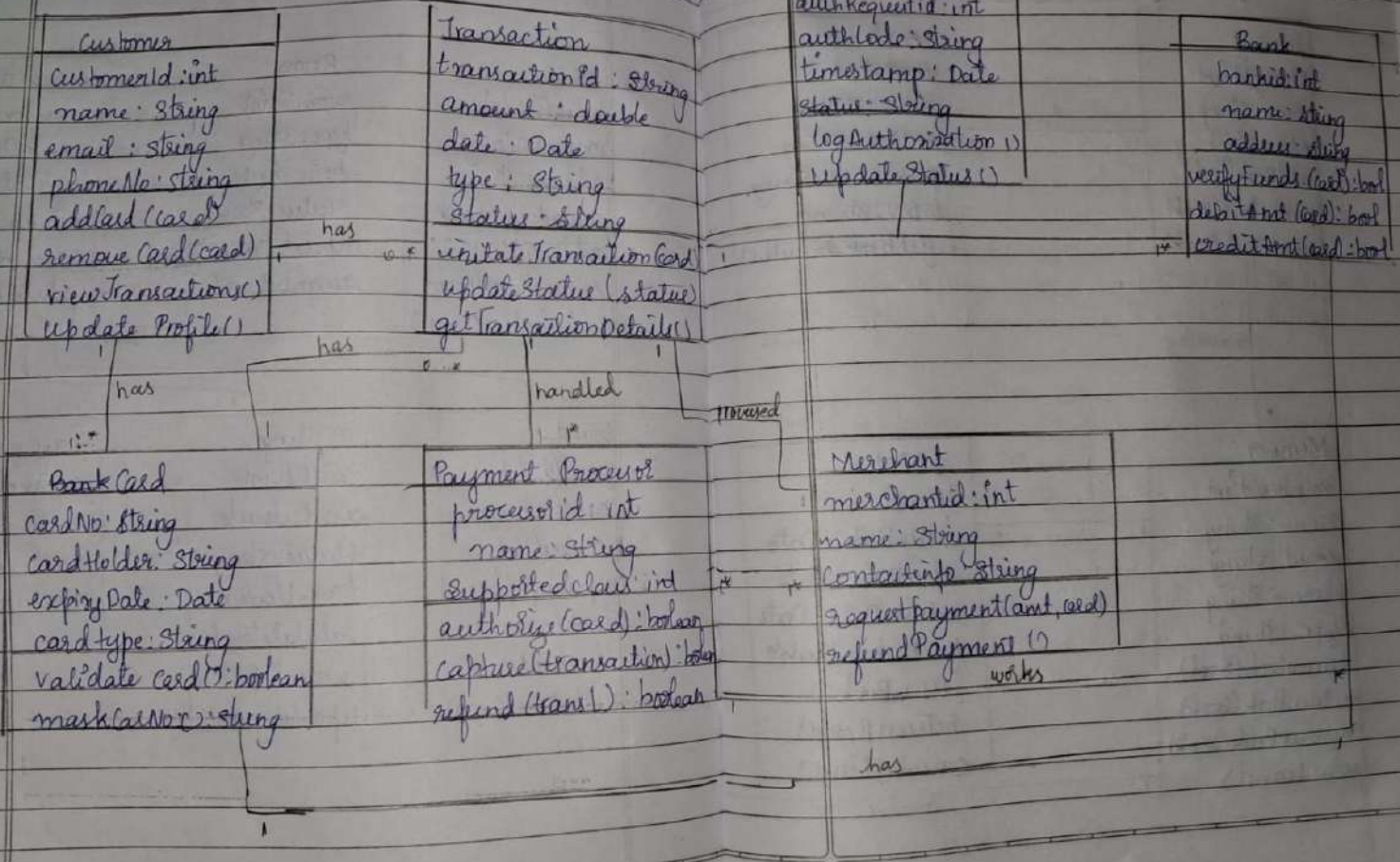
Billing

billid: int
 amt: double
 status: string
 tax: double
 calculateTotal()
 generateBill()
 updatePayment()

Payment

paymentid: int
 date: Date
 amt: double
 processPayment()

3. Credit Card Processing



3. Library Management System

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Library

libraryId: int
name: String
address: String
addBook(book)
removeBook(book)
searchBook(book)

works

Book

bookId: int
title: String
author: String
publisher: String
ISBN: String
getBookDetails()

has

membership

loans

0..*

Member

memberId: int
name: String
email: String
phoneNumber: String
type: String
borrowBook(book)
returnBook(book)
reserveBook(book)
viewLoans()

loans

LOAN

loanId: int
issueDate: Date
dueDate: Date
returnDate: Date
fineAmt: double
issueBook()
returnBook()
calculateFine()

makes

Staff

staffId: int
name: String
role: String
username: String
password: String
login()
logout()
generateReport()

Reserve

Reservation

reservationId: int
reservationDate: Date
status: String
placeReservation()
cancelReservation()
checkStatus()

4. Stock Management

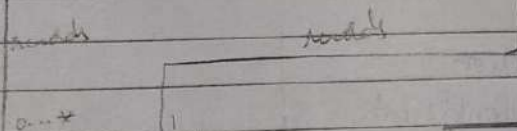
Product
 productid: int
 name: string
 descripⁿ: string
 unitPrice: double
 quantityInStock: int
 repateStock(quantity)
 checkAvailability(): bool
 getProductDetails()

Supplies
 Supplierid: int
 name: string
 contact: string
 email: string
 address: string
 SupplyProduct()
 updateSupplierInfo
 viewSupplierProducts()

Purchase Order
 Orderid: int
 orderdate: Date
 expected delivery: Date
 status: string
 createOrder()
 updateOrderStatus(status)
 receiveOrder()

Stock Transaction
 Transactionid: int
 Type: string
 date: Date
 quantity: int
 recordTransaction()
 getDetails()

Staff
 Staffid: int
 name: string
 role: string
 login()
 logout()
 manage(product)
 generateReport()



5. Passport Authentication

