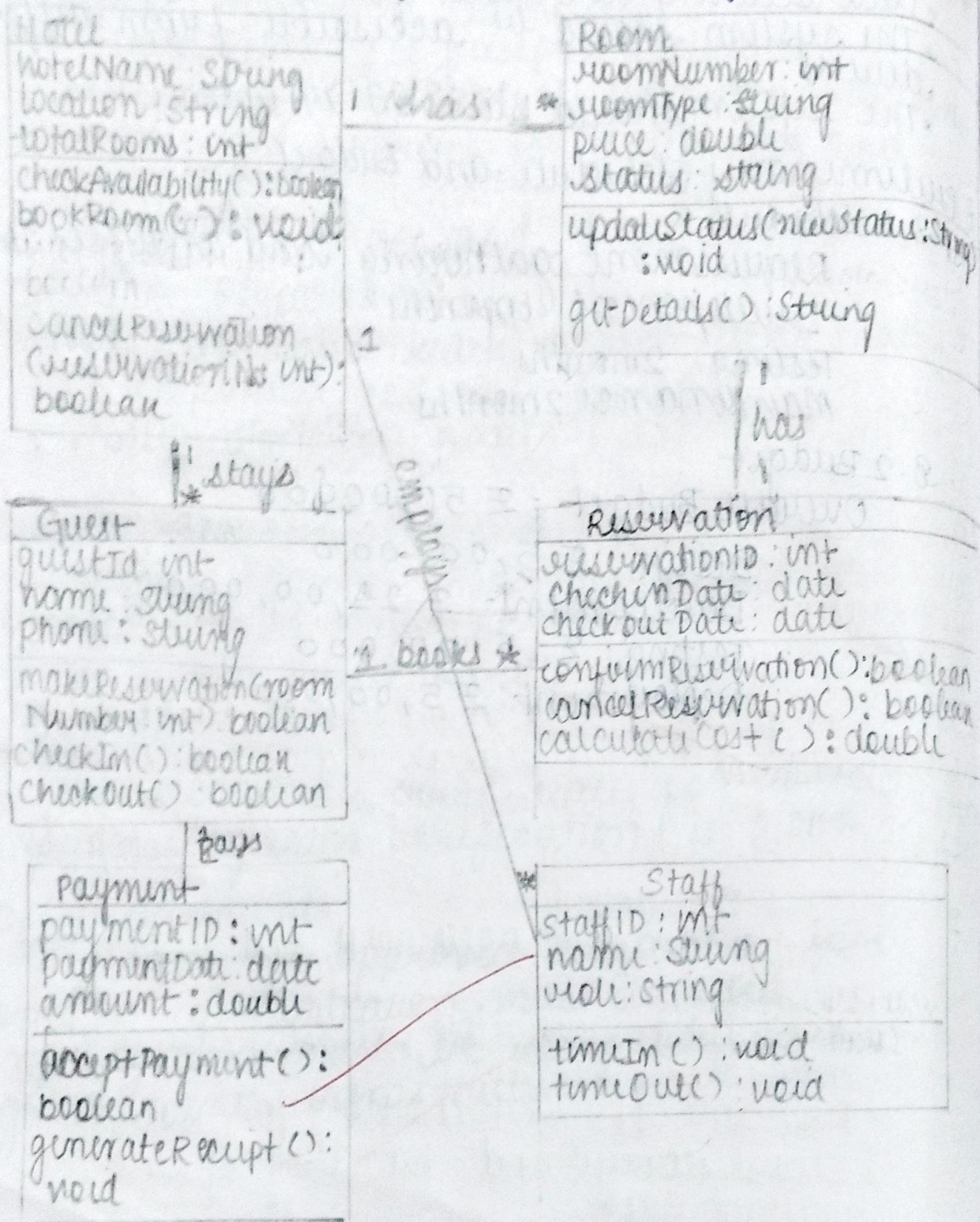


# 08/10/24. UML Class Diagram: Hotel Manage





08/10/2024

CardHolder

cardHolderID: int

name: String

address: String

makePayment(payment: double): double

checkBalance(): double

CreditCard

cardNumber: String

expiryDate: date

CVV: String

balance: double

creditLimit: double

validateCard(): boolean

chargeAmount(amount: double): void

checkAvailableCredit(): double

Payment

paymentID: int

amount: double

paymentDate: date

paymentStatus: String

processPayment(): boolean

refundPayment(): void

Bank

bankID: int

bankName: String

bankAccountNumber: String

authorizePayment(cardNumber: String, amount: double): boolean

settlePayment(payment: double): void

Merchant

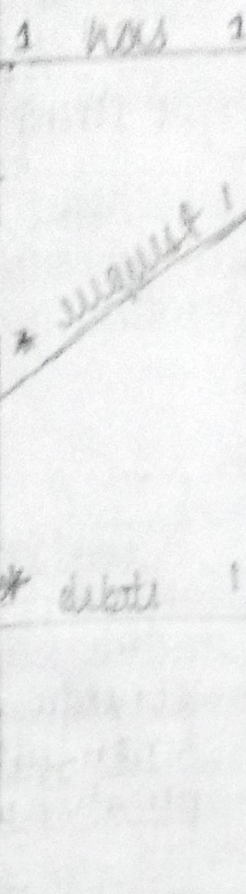
merchantID: int

merchantName: String

accountNumber: String

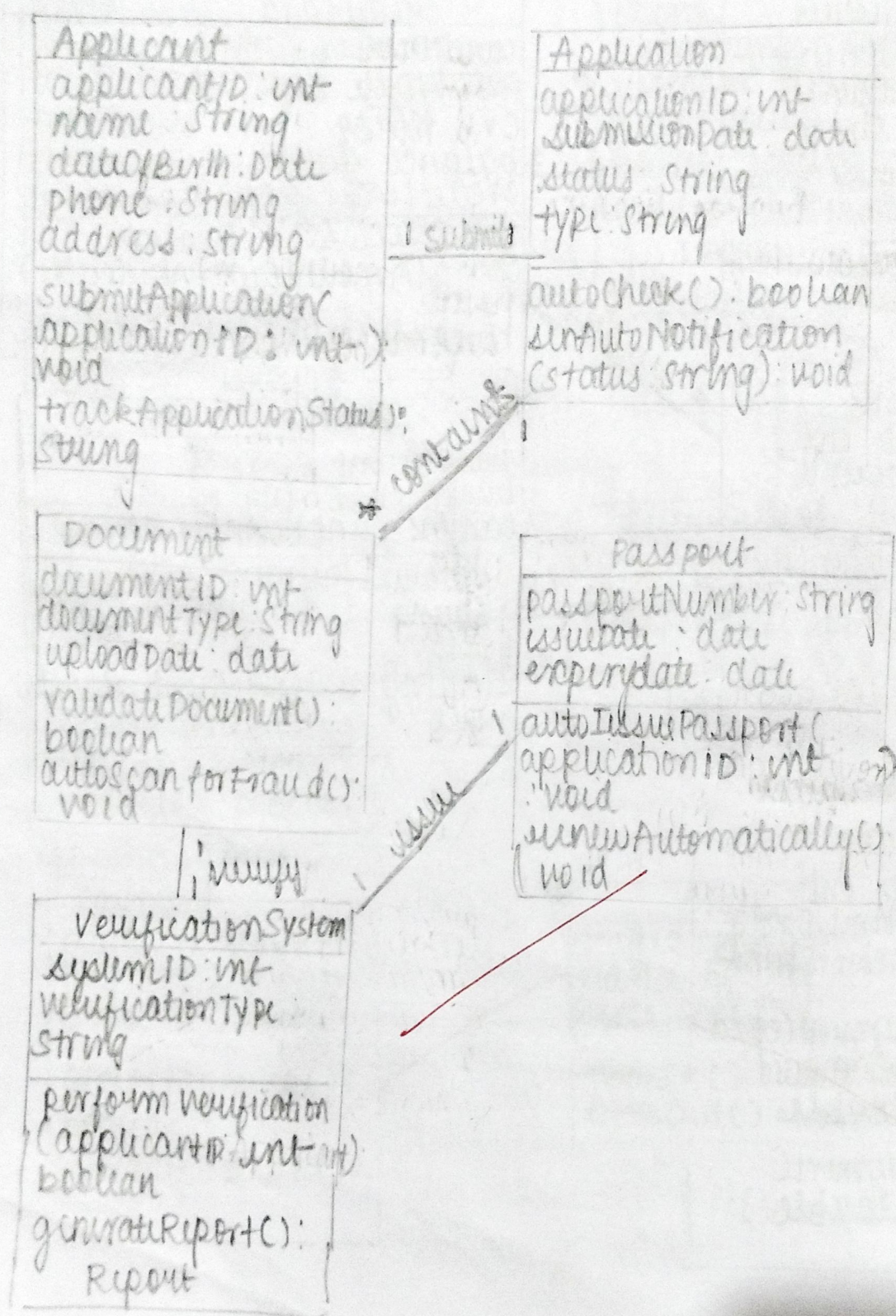
requestPayment(cardNumber: String, amount: double): double

receivedPayment(payment: double): void



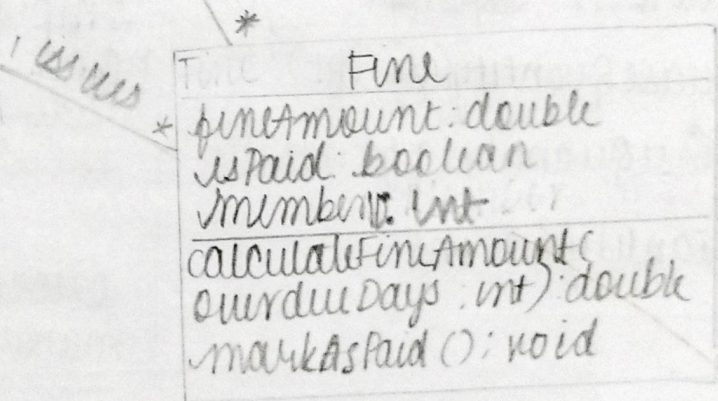
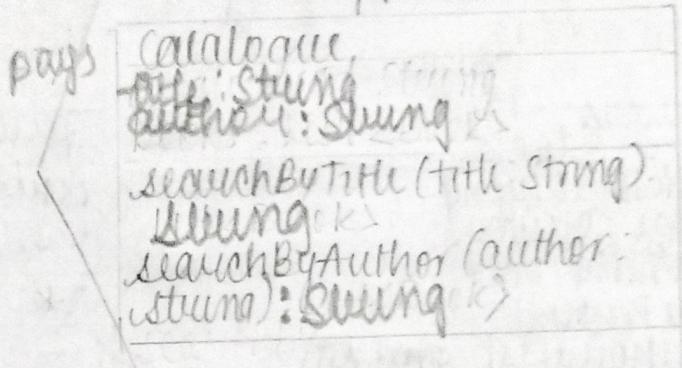
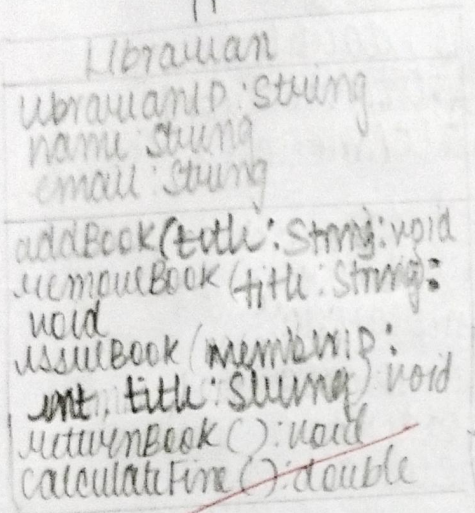
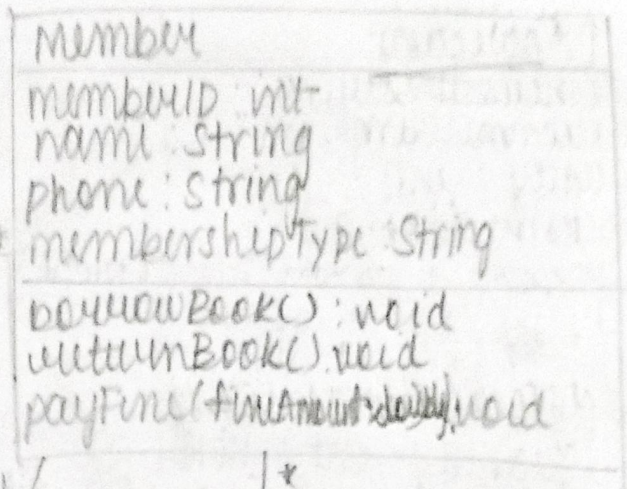
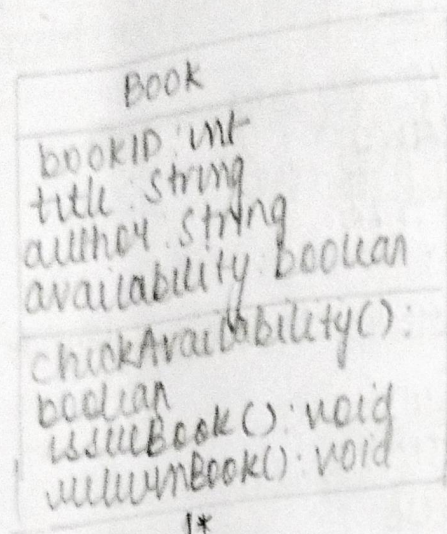


# Passport Automation System





# Library management system



\* borrow

\* issues

\* search

pays

\* issues

\*

\*

Handwritten signature/initials



# 08/10/24 Stock Maintenance System

## Warehouse

warehouseID: String  
location: String  
capacity: int  
stockID: String

addstock(stockID: String  
quantity: int): void  
removestock(stockID: String  
quantity: int): void

\* stock

## Stock

stockID: String  
name: String  
quantity: int  
pricePerUnit: double  
warehouseID: String  
supplierID: String

increaseQuantity(qty: int):  
void  
decreaseQuantity(qty: int):  
void  
getQuantity(): int

## Supplier

supplierID: String  
name: String  
phone: String

supplystock(stockID: String, qty: int):  
void

## Order

orderID: String  
orderDate: date  
amount: double  
processOrder(): void  
calculateAmount(): double

\* process

## Employee

employeeID: String  
name: String  
role: String

warehouse: Warehouse  
order: Order

processOrder(orderID: String): void  
managestock(stockID: String): void

Supplier \* has \* Employee

15/10/2024