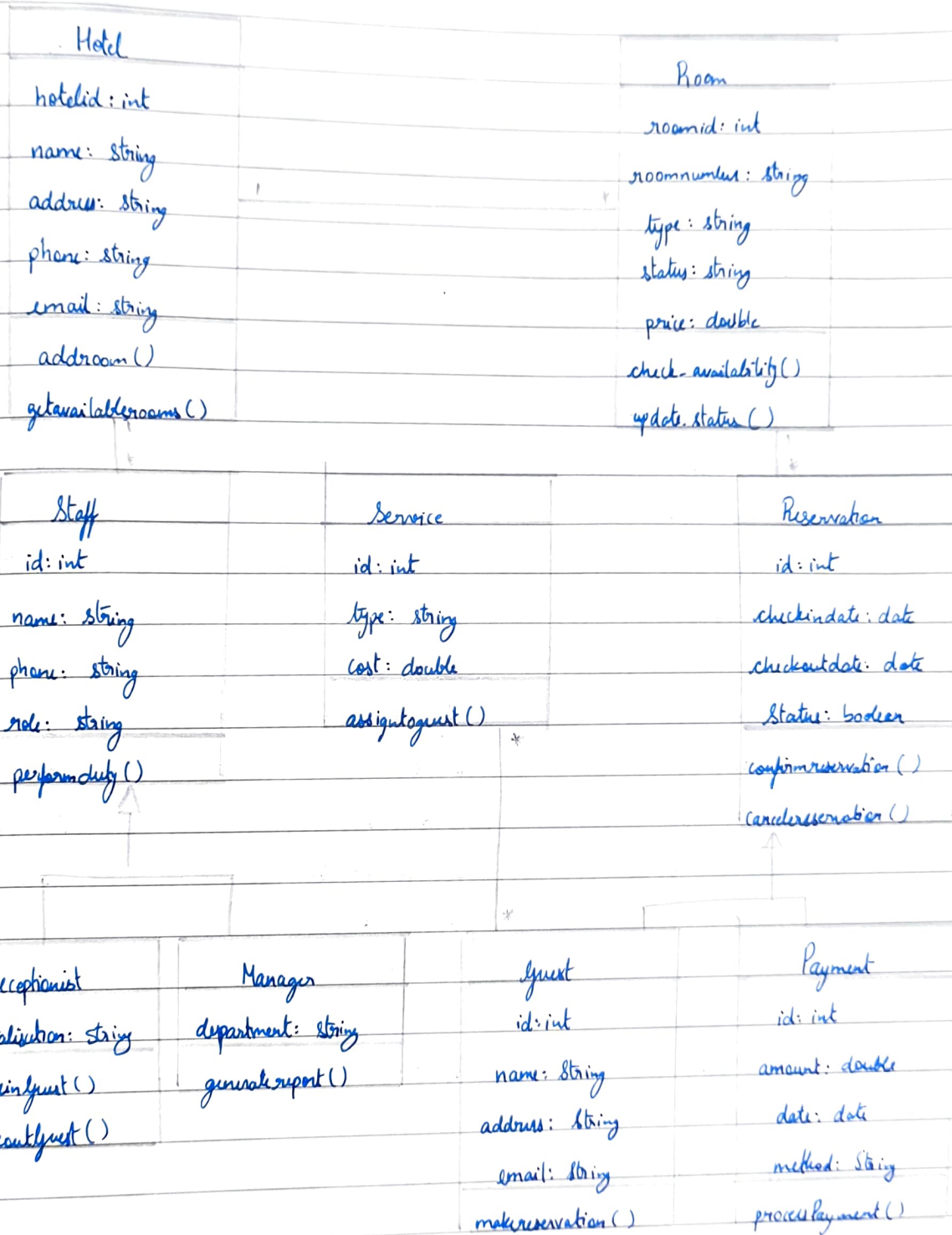


Class diagram

Hotel Management System



Credit Card Processing System

Customer
custid: int
name: string
email: string
phone: string
linkcard()
viewtransactionlist()

Merchant
mid: int
name: string
category: string
initialrepayment()
refund()

Bank
bid: int
name: string
branch: string
verifyaccount()

Issuing Bank
cardlimit: int
approve transaction()

Payment Gateway
pid: int
name: string
supportedbank: string
processPayment()
checkstatus()

Acquiring Bank
AcNo: int
settle payment()

Credit Card
number: int
type: string
expirydate: date
validatecard()
getcarddetails()

Transaction
Tid: int
amount: double
date: date
status: string
authorize transaction()
update status()

Fraud detection System
fid: int
risklevel: int
analysetransaction()

Library Management System



status: string

Stock Maintenance System

Supplier
suprid: int
name: string
contactinfo: string
deliverstock()

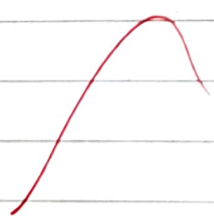
Stock Adjustment
adjid: int
item: StockItem
adjquantity: item
adjdate: date
reason: string
applyadj()

Report
reportid: int
generationid: date
reporttype: string
content: string
generate(): void

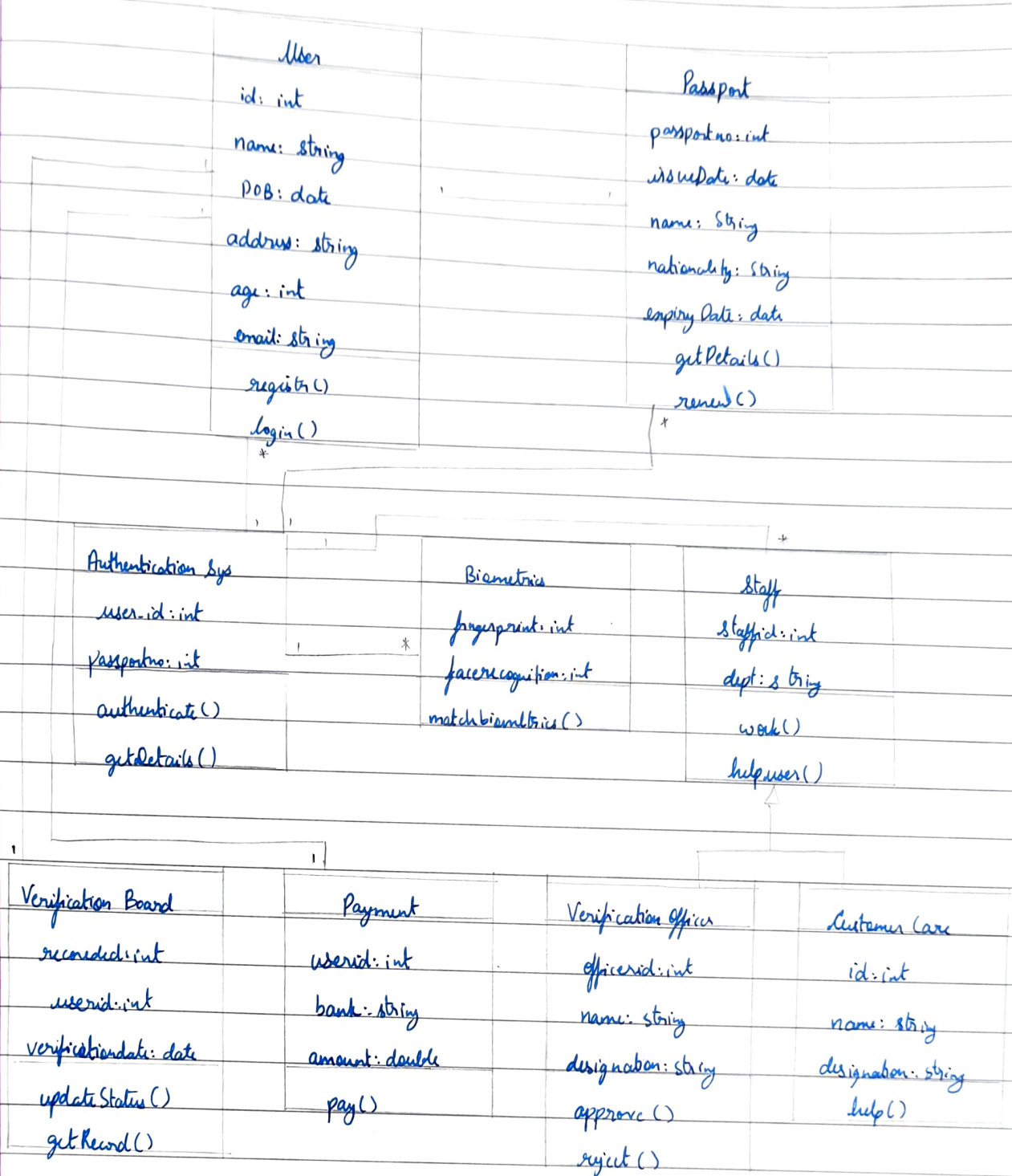
Stock Manager
mgrid: int
name: string
email: string
addstock()
removestock()
generatistock()

Stock Item
itemid: string
name: string
category: string
quantity: int
location: string
updatequantity()
checkAvailability()

Warehouse
wid: string
location: string
Capacity: int
storeitem()
removeitem()



Passport Automation System



16/9