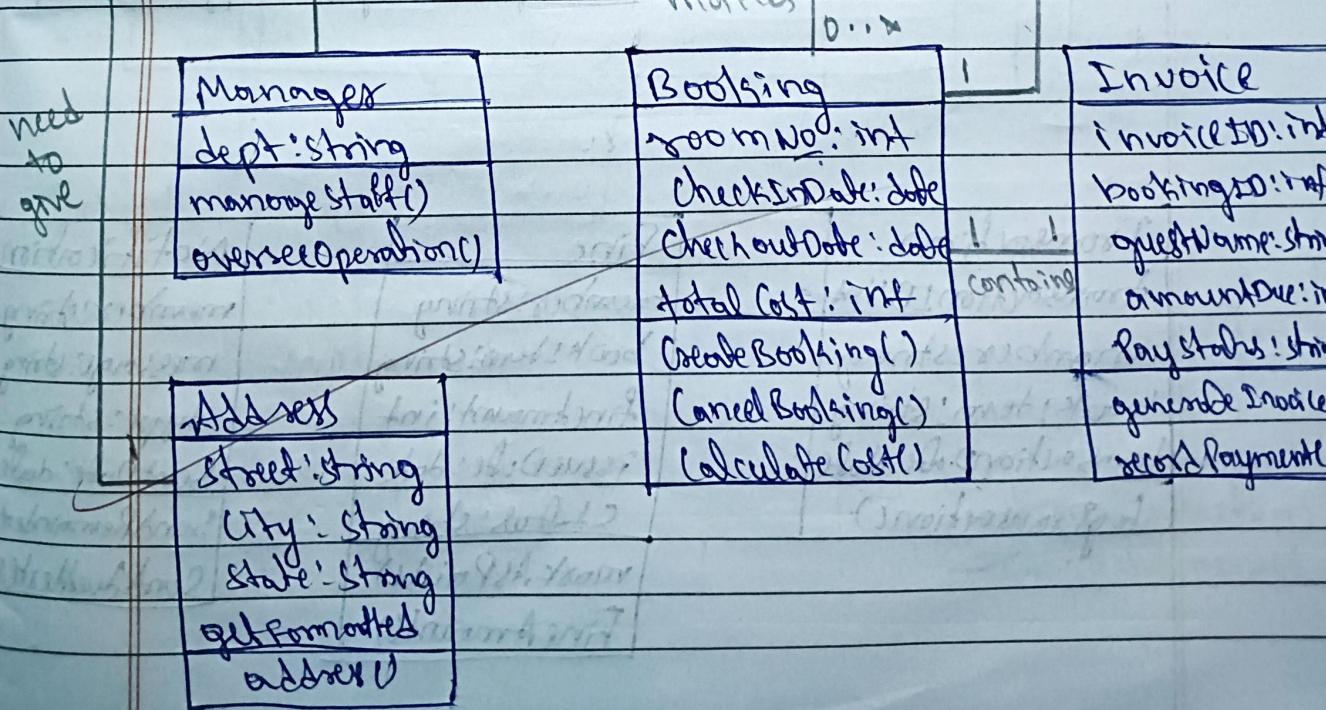
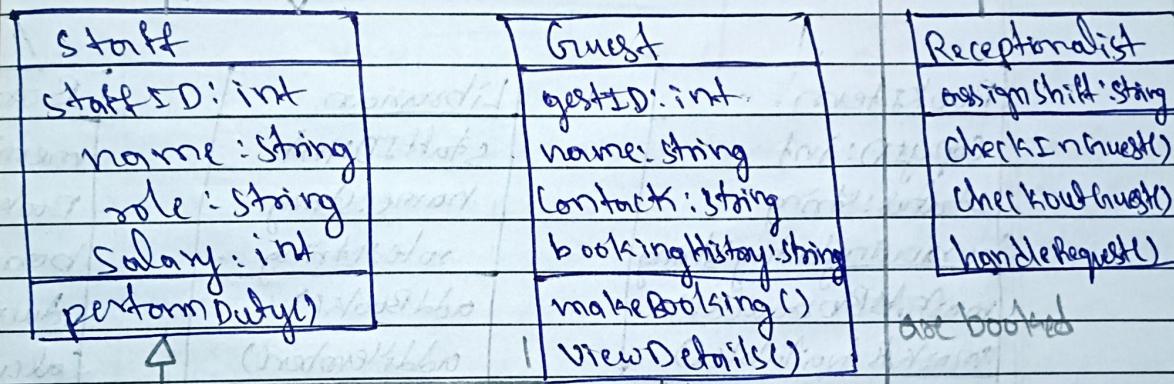
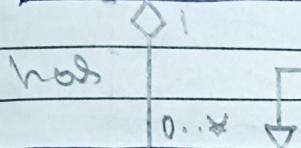
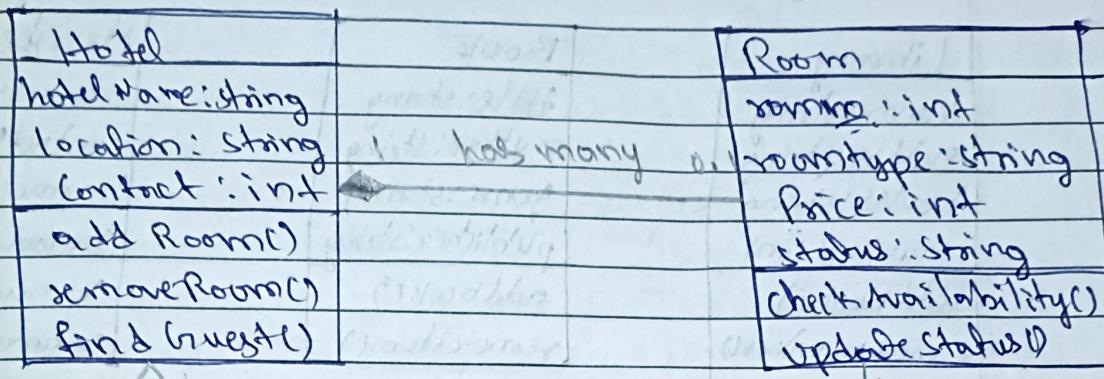


Advanced UML Diagram

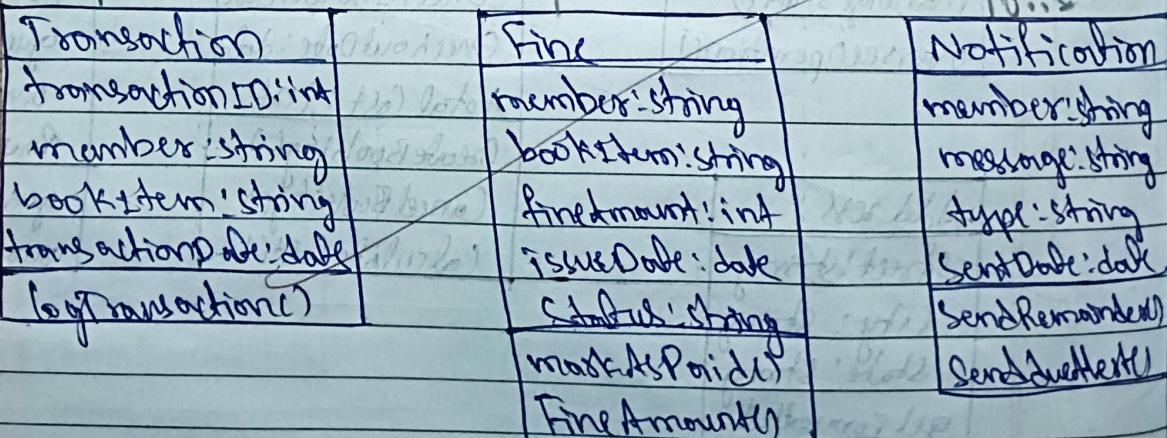
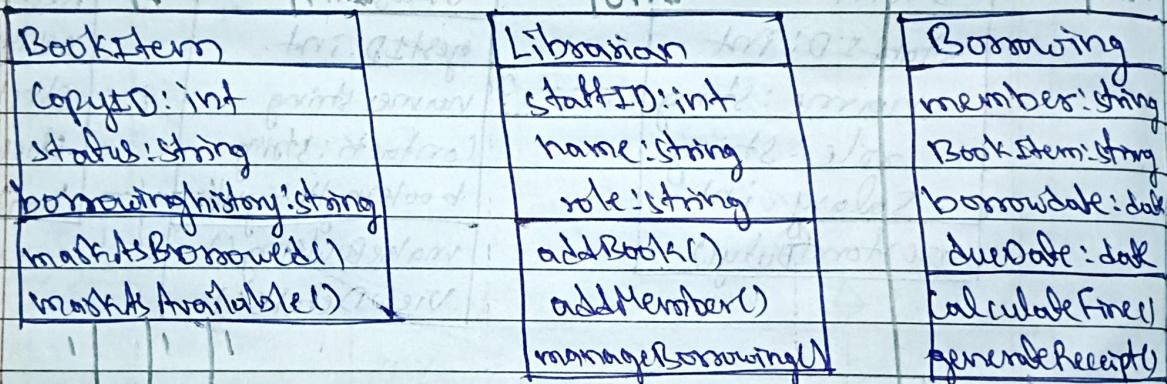
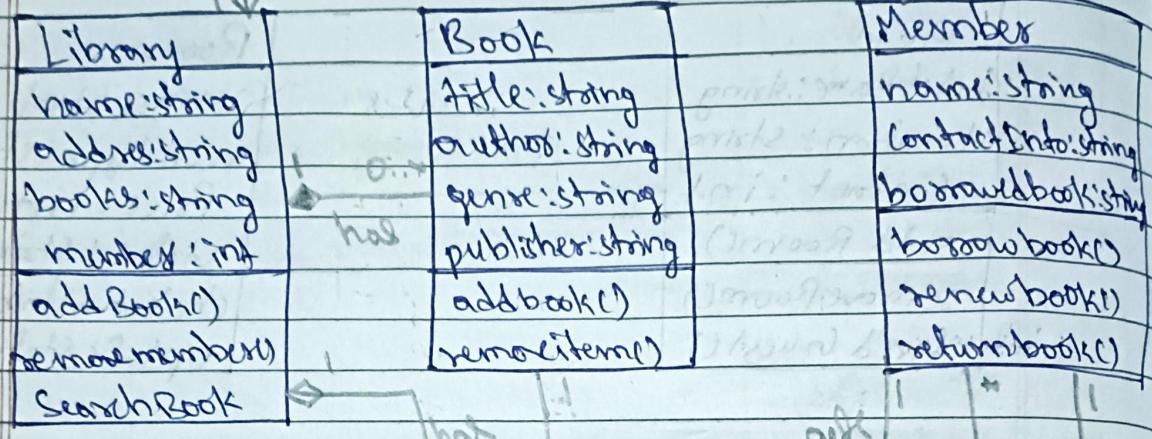
SPARK

Date 12/21/23

Hotel Management System



library management system



Credit card Processing System

Statement

statementID: string
 issue date: string
 totalAmountDue: Double
 generateStatement()

Transaction

includes transactionID: int
 amount: Double
 date: Date
 status: Transaction Status
 initiateTransaction()
 confirmTransaction()
 cancelTransaction()
 refund Transaction()

Statement

Customer

ID: int
 name: string
 contact: int
 balance: Double
 makePayment()
 viewTransactions()

Credit Card

cardNo: string
 cardCVV: int
 expireDate: string
 balance: Double
 cardType: string
 validateCard()
 checkBalance()
 blockCard()

transaction

(enumeration)
 CardType
 (from CreditCard)

Platinum
 elite
 Gold

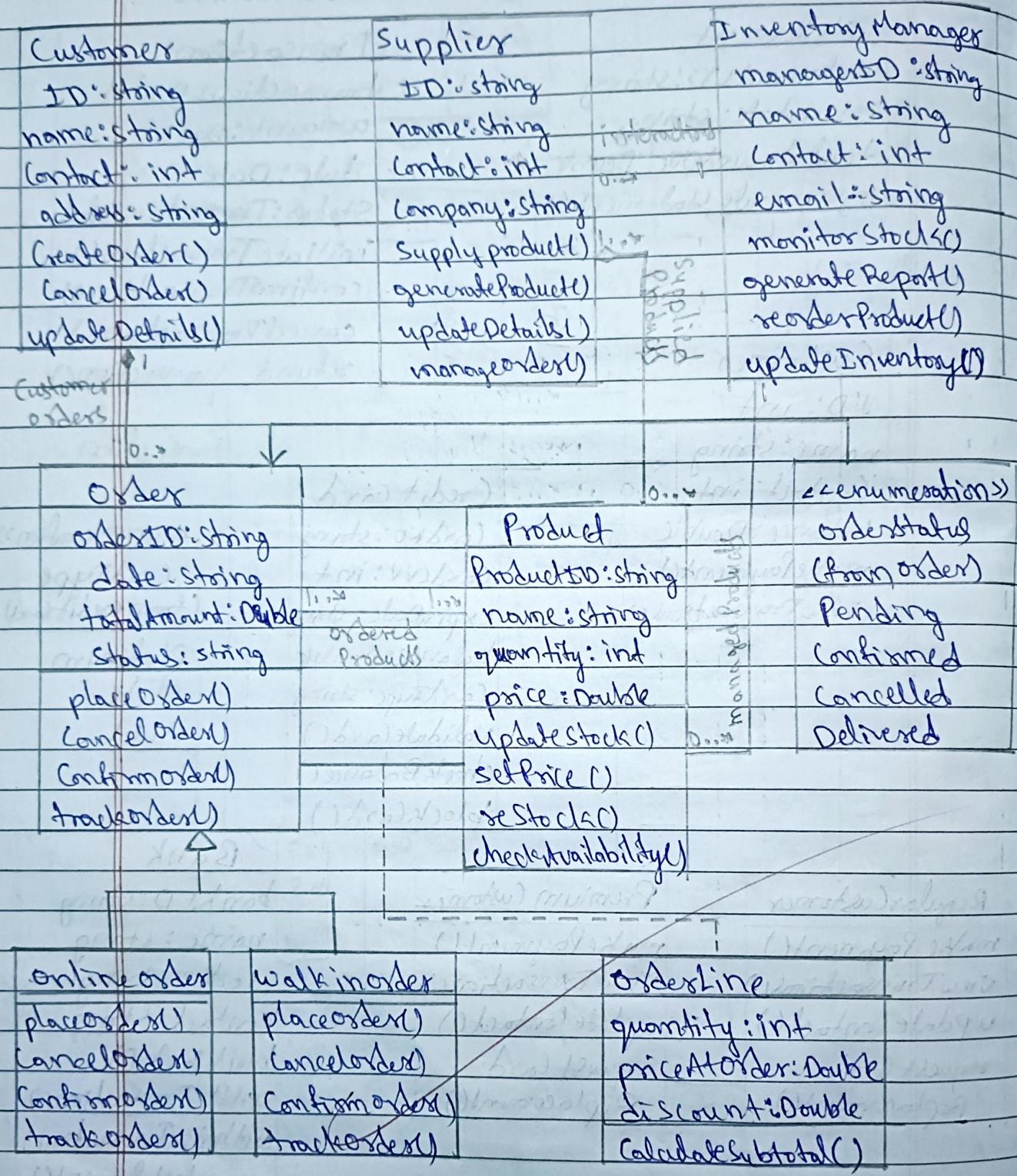
RegularCustomer
 makePayment()
 viewTransactions()
 updateContact()
 requestCard
 Replacement()

Premium Customer
 makePayment()
 ViewTransactions()
 updateContact()
 requestCard
 Replacement()

Bank

bankID: string
 name: string
 code: string
 contact: string
 blockCard()
 settleTransaction()
 authorizeTransaction()
 generateStatement()

Stock Maintenance System



Passport Automation System

Application

applicationID: string
 submissionDate: string
 status: Boolean
 applicationType: string
 submitApplication()
 checkStatus()
 approveApplication()
 rejectApplication()

0..1 issue resultIn

Applicant

applicantID: string
 name: string
 address: string
 contact: string
 applyForPassport()
 uploadDocument()
 updateDetails()
 trackApplication()

contains

Passport

passportNo: int
 issueDate: string
 expiringDate: string
 passportType: string
 renewPassport()
 revokePassport()
 issuePassport()
 cancelPassport()

Officer

officerID: string
 name: string
 dept: string
 contact: string
 verifyDocument()
 approveDocument()
 rejectDocument()
 issuePassport()

Document

documentID: string
 documentType: string
 issuedDate: string
 validateDocument()

(enumerations)

ApplicationType

From Application

Work

Study

Business

DocumentOfficer

verifyDocument()
 approveDocument()

issuingOfficer

rejectDocument()
 issuePassport()