

Credit card

Statement	+ Statement ID: String
+ SSN: String	+ Date: String
+ Total Amount Due: Double	
+ Generate Statement (customer: Customer)	

Transaction Status
Pending
Confirmed
Cancelled
Refunded

Credit Card

CardNo: String
CardCVV: int
Expiry Date: String
Balance: Double
+ validate Card (boolean)
+ block Card (void)

Customer
+ Customer ID: Integer (unique)
+ Name: String
+ Contact: Integer (0-10)
+ Make Payment (amount: Double)
+ Request Card Replacement()

0..1

includes

Transaction
+ Transaction ID: int
+ Amount: Double
+ Date: Date
+ Status: Transaction Status
+ Make Transaction()
+ Cancel Transaction()
+ Refund Transaction()

Transaction

tparticipate

Bank

BankID: String
+ BankName: String
+ Contact: String
+ authorize Transaction()
+ block Card()
+ settle Transaction()

belongs

1

that's

1..2

Library Management System

Person

Book
ISBN: Int
title: String
author: String
tborrow Book(): void
treturn Book(): void
+ISBN

contains

Library
libID: String
name: String
address: String
tadd Book(): void
tremove Book(): void

Journal

newspaper

manages

involved

Librarian
librarianID: String (unique)
name: String
contact: Int
tmanage Inventory(): void
tassign Member(): void

<< enumeration >>

ShiftType

Morning

Evening

Member

memberID: String
name: String
contact: Int
tmembership: MembershipType
tborrow Book(): void
treturn Book(): void

thread

result

Fine
fineID: String
tfineAmount: Float
tfineStatus: FineStatus
tcalculateFine(): void
tpayFine(): void

<< enumeration >>

FineStatus

Paid

Unpaid

Borrow Transaction

tborrowTransactionID: String
tborrowDate: Date
treturnDate: Date
tfineAmount: Double
tcalculateFine(): Double

<< enumeration >>

MembershipType

Regular

Phonics

Elite

Reservation

reservationID: String (ordered)
reservationDate: Date
tfineStatus: Status
tfineBookID: void
tfineCancelReservation(): void

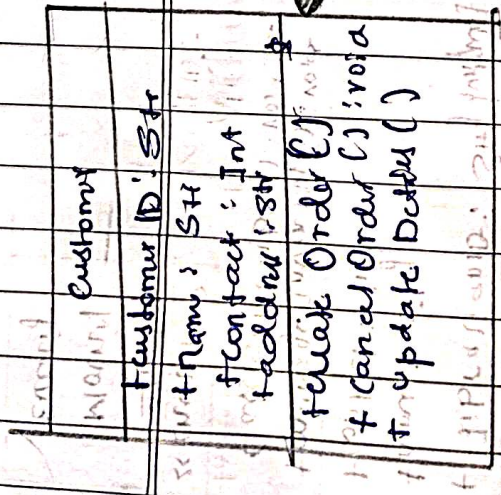
<< enumeration >>

ReservationStatus

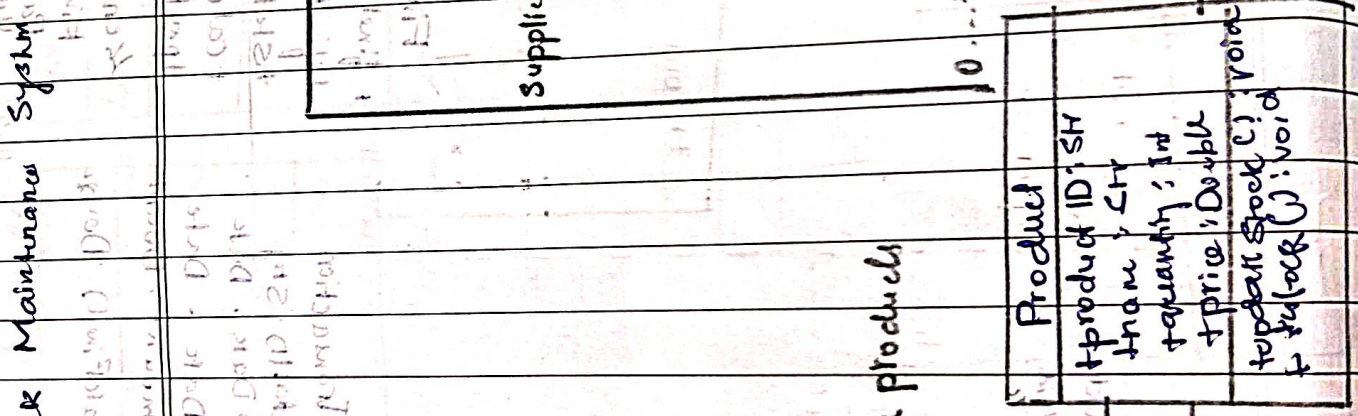
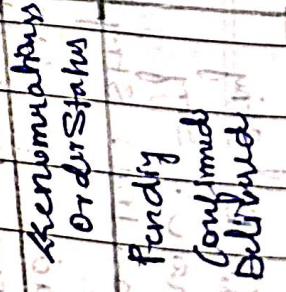
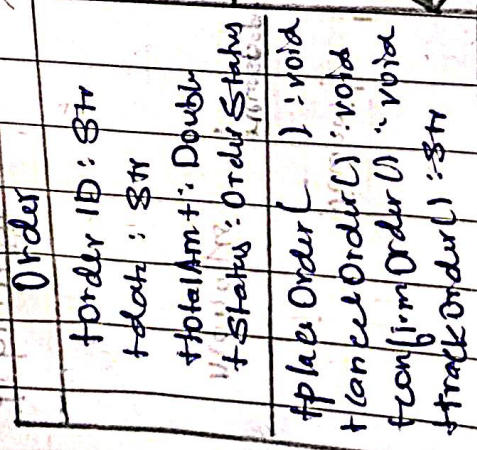
Active

Cancelled

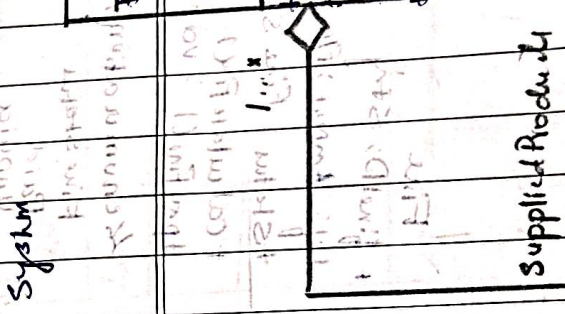
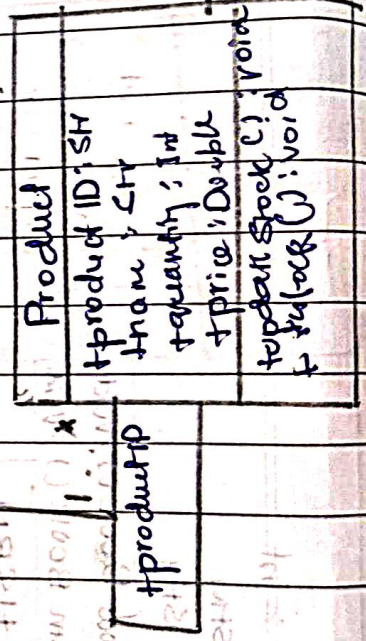
Completed



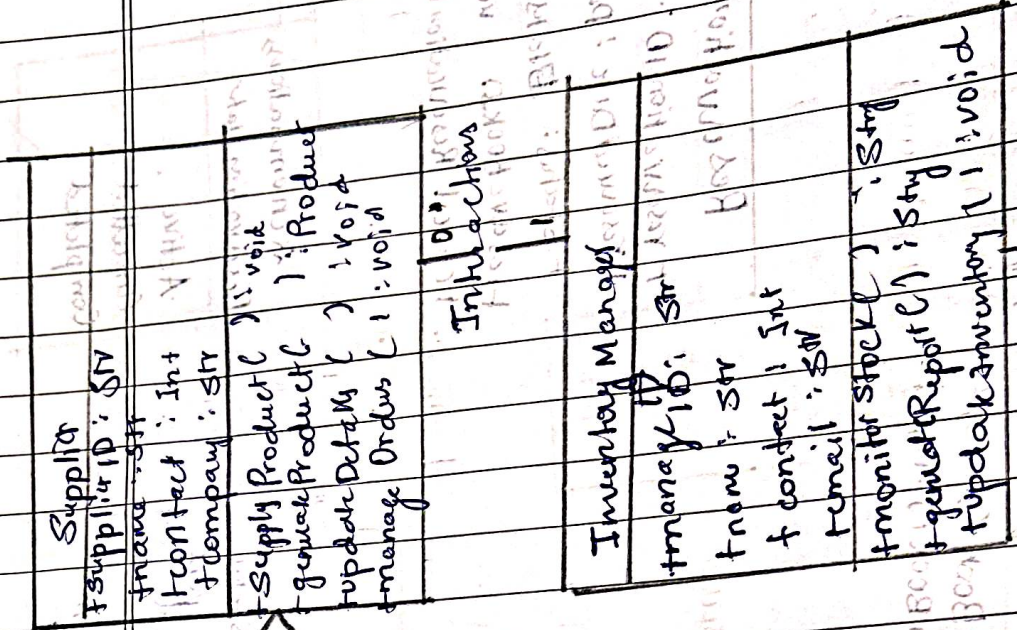
CustomerOrder



tordered products



Supplied Products



Instructions

Inventory Management

manage products

Passport Automation System

Application
 + applicationID : Str
 + submit : Str
 + status : Boolean
 + applicationType : Str
 + submit Application () : void
 + check Status () : Boolean
 + approve Application () : void
 + reject Application () : void

+ applicationID

+ applicationID

issues

submit

<<enumeration>>
 passport type
 Foreign
 National

Passport

+ passportNumber : Int
 + issue Date : Str
 + expiry Date : Str
 + passportType : Str

+ renew Passport () : void
 + renewe Passport () : void
 + issue Passport () : void

Standard

Diplomatic

issues

contains

Application

+ applicationID : Str
 + name : Str
 + address : Str
 + contact : Str
 + apply For Passport () : Application
 + upload Doc () : void
 + update Default () : void
 + track Application () : Boolean

validity

provides

Officer

+ officerID : Str
 + name : Str
 + dept : Str
 + contact : Str

+ apply Doc () : Boolean
 + approve Doc () : void
 + reject Doc () : void
 + issue Passport (application) : void

Document

+ docID : Str
 + docType : Str
 + issue Date : Str
 + validate Doc () : Boolean

+ applicationID : Str