SRS:

Purpose - To ~~describe~~ describe the requirements involved in developing an airline reservation & cancellation system.

The intented audience are any one who's interested in reserving/booking a ticket for Or cancelling their ticket.

Scope: The software that is being developed can be used to check the availability, reserve and cancel if required.

Provides options for viewing different flights available, modify a particular reservation, details of the ~~flights~~ cost flights, cost etc.

Requirements:

→ Functional Requirements

⇒ The system is such that it stands upto user requirements

⇒ System should safe guard itself against human intention

⇒ The choice for user to select a seat type

⇒) Good response time

⇒ Should be ~~st~~ secure while moven transactions.

↳ Non functional requirements

⇒ The system should provide be relinble to avoid any inconvenience inconvenience.

⇒ The system should be available to the users 24/7.

⇒ The system Code Module files should be properly documented and easy to understand to make avoid confusion later.

⇒ The default screen should be options to search flights

↳ User requirements

⇒ login / Signup

⇒ Options to search; multiple options

⇒ Options to reserve, cancel, the reschedule tickets

⇒ Proper, easy to use UI.

⇒ A screen which records all transaction

⇒ Secure personal details like transaction IDs, account no's, phone numbers, email ID etc.
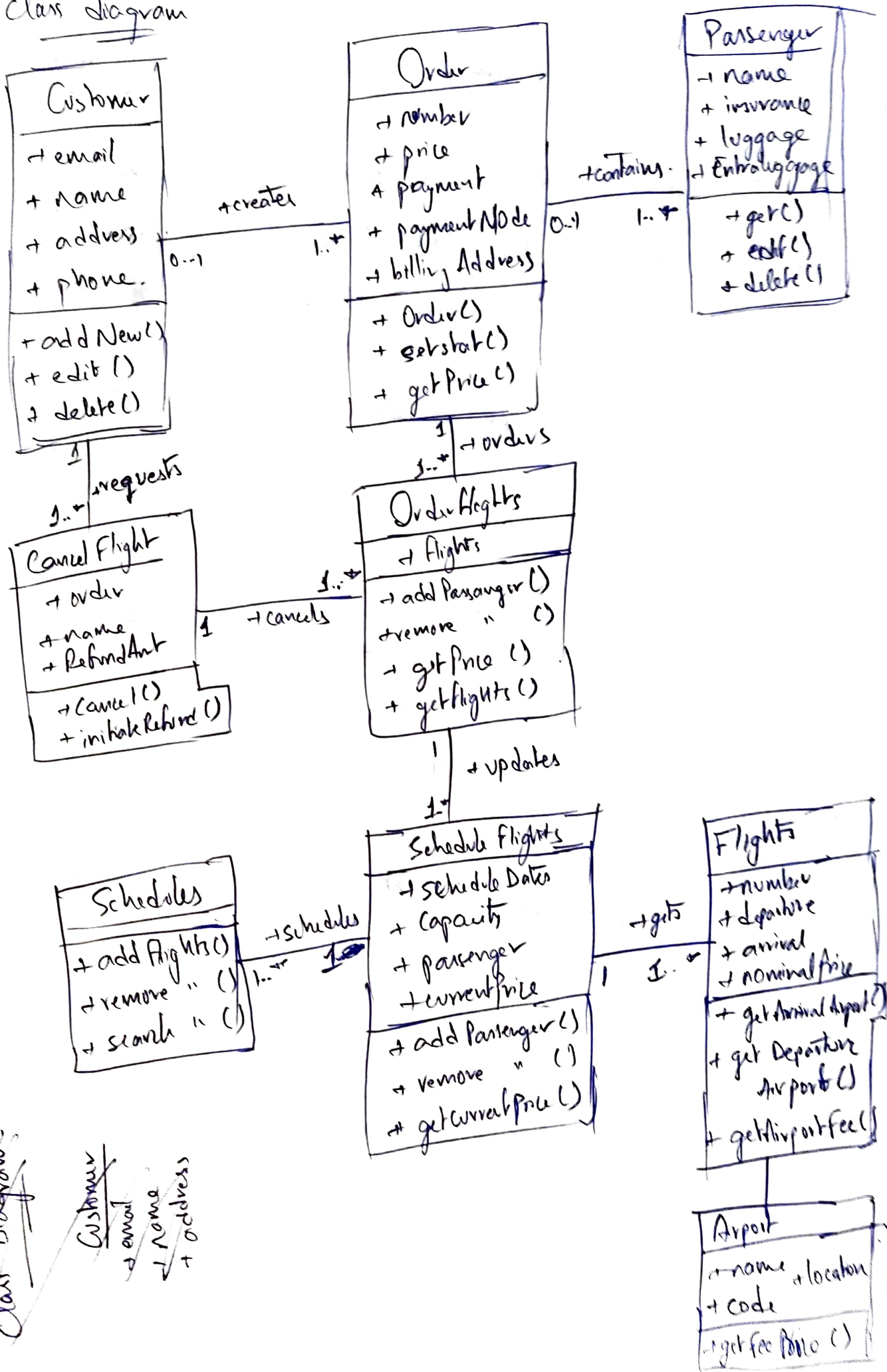
class diagram

Customer
- + email
- + name
- + address
- + phone

- + add New()
- + edit()
- + delete()

Order
- + number
- + price
- + payment
- + payment NOde
- + billing Address

- + Order()
- + getstat()
- + getPrice()

Passenger
- + name
- + insurance
- + luggage
- + Extraluggage

- + get()
- + edit()
- + delete()

+creates 0..1 1..*

+contains 0..1 1..*

Cancel Flight
- + order
- + name
- + RefundAmt

- + Cancel()
- + initiateRefund()

+requests 1 1..*

OrderFlights
- + flights

- + add Passenger()
- + remove " ()
- + getPrice()
- + getflights()

+orders 1 1..*

+cancels 1 1..*

+ updates 1 1..*

Schedules
- + add Flights()
- + remove " ()
- + search " ()

Schedule Flights
- + schedule Dates
- + Capacity
- + passenger
- + currentPrice

- + add Passenger()
- + remove " ()
- + getCurrentPrice()

+schedules 1..* 1

Flights
- + number
- + departure
- + arrival
- + nominalPrice

- + getArrivalAport()
- + getDeparture Airport()
- + getAirportFee()

+gets 1 1..*

Airport
- + name + location
- + code
- + getFeePrice()

State diagram

● login

Verifying data

new/guest user → **loading flight list** → confirm → **redirecting to registration**

redirecting (back to Verifying data)

correct user /registered → **loading flight list**

select → **book** → confirm / confirm → (**Transaction**) → payment successful → **Show success message & ticket details** → completed → (**logout**)

select → (**cancel**) → request details. → **Select booking** → confirm → (**initiate refund**) → successful → **Show message & refund message** → completed → (**logout**)

logout → ●