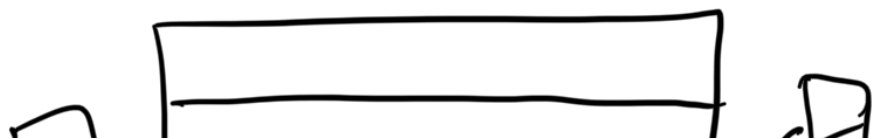


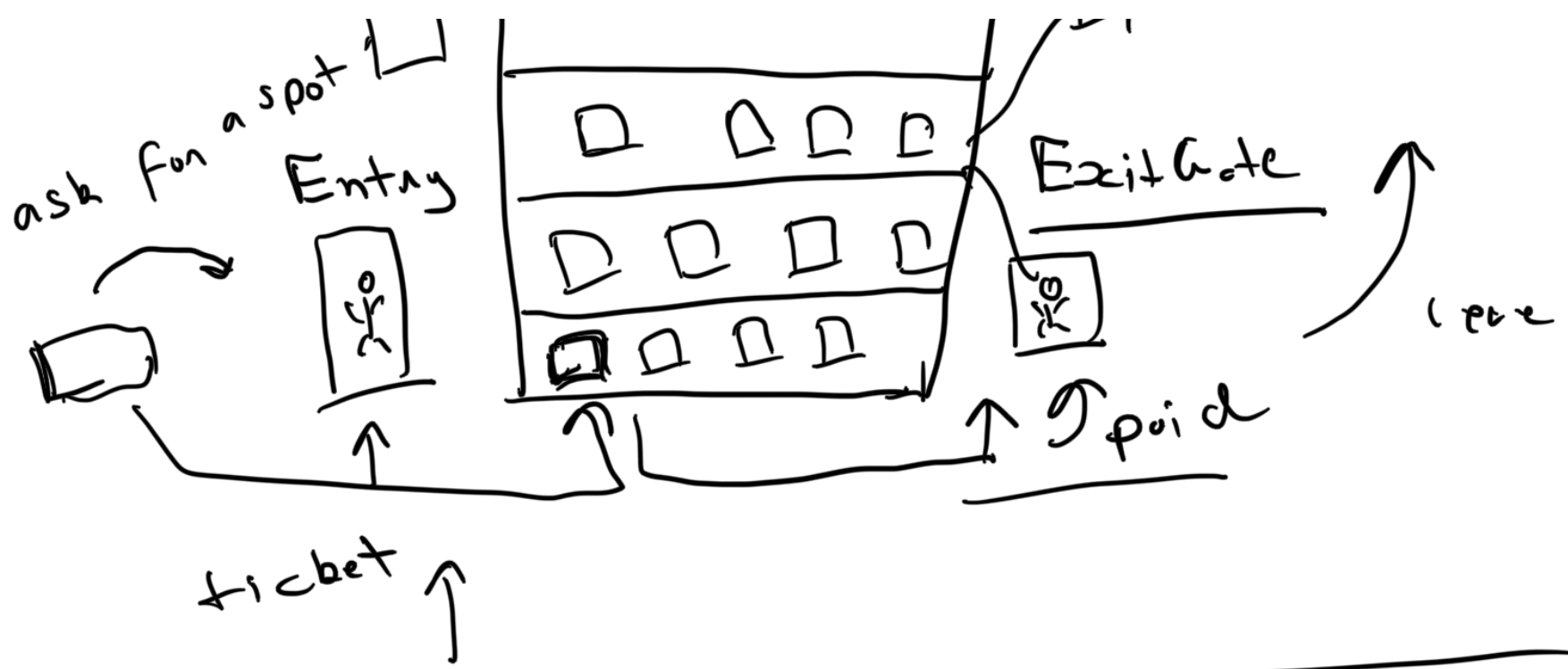
LLD - Parking Lot management system

- Pen
 - TTT
 - SPL
- } Management systems
- = parking lot
 - = book my show
 - email
 - expense management
 - split wise

Parking lot

- Design
- Implementation
 - DP outside entities
 - Two DP together
- Base models
- DTO





-
- current
 - future ✓
 - behaviour
- Each lot can have multiple floors

Types of vehicles

- ↳ [Small
- ↳ [Medium
- ↳ [Large

Changes

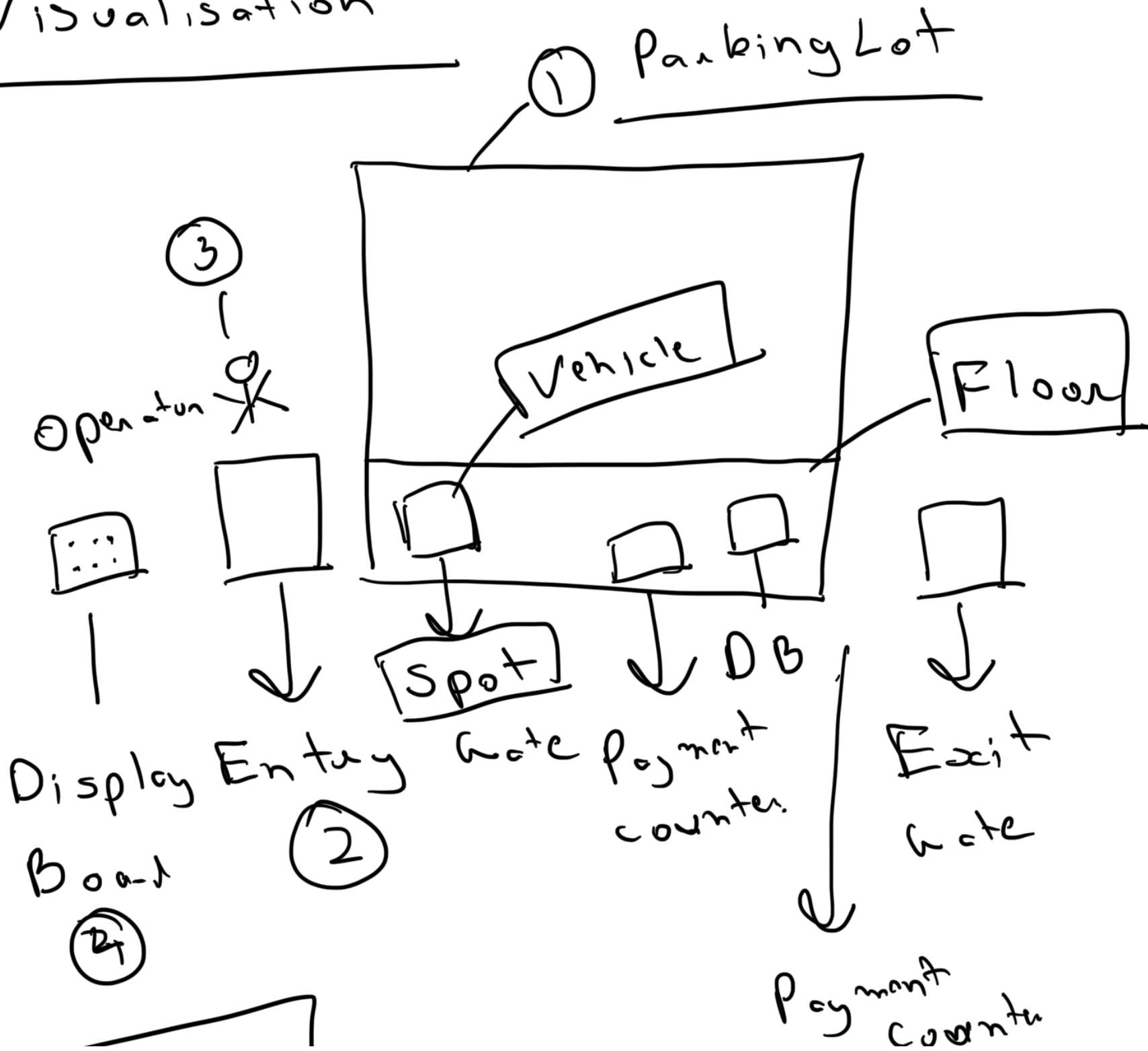
- Rs 50
- Rs 80
- Rs 100

Payment modes

- ↳ Cash
- ↳ Card
- ↳ Online payment

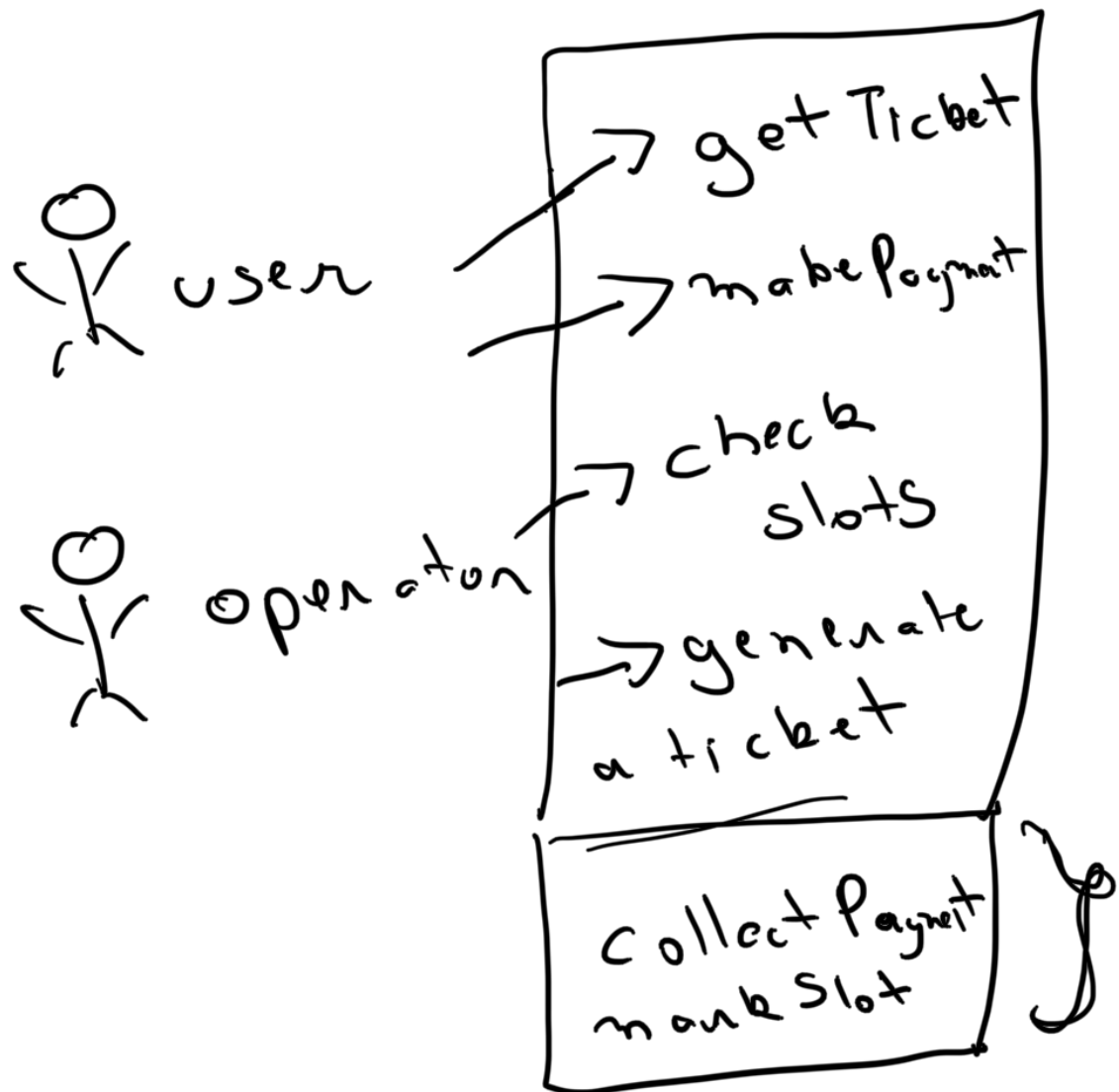
Each floor will have a payment counter

Visualisation

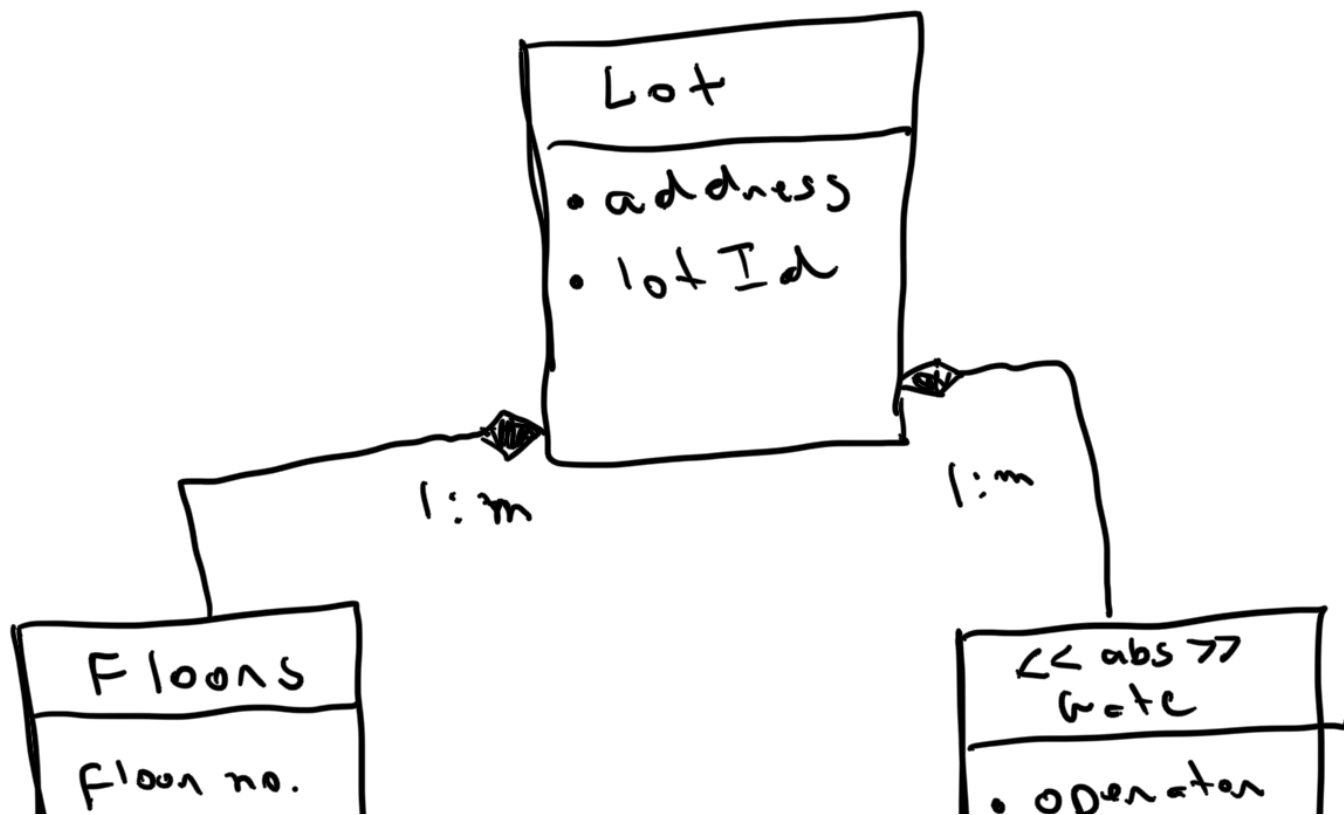


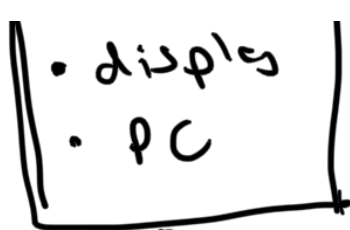
Ticket

Actions

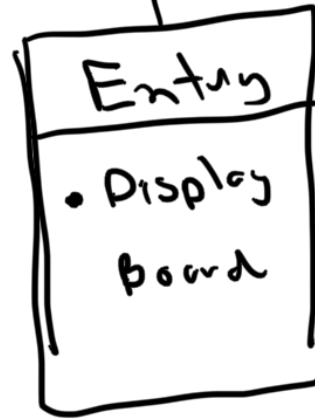
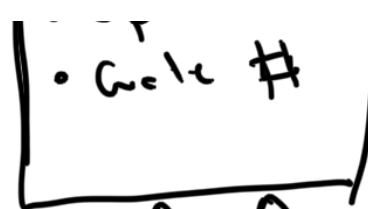


CLASS Diagram

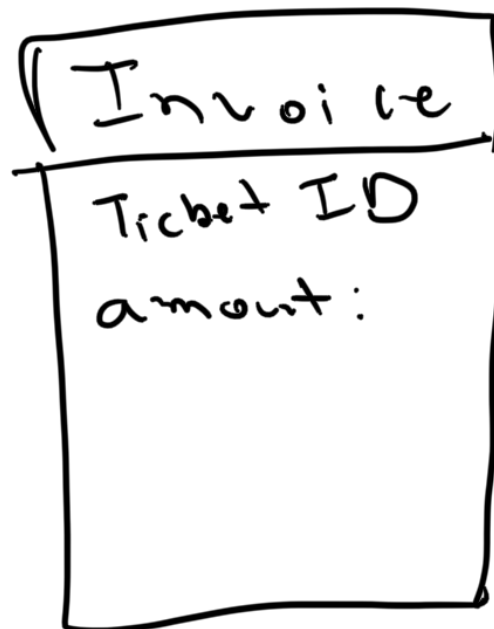
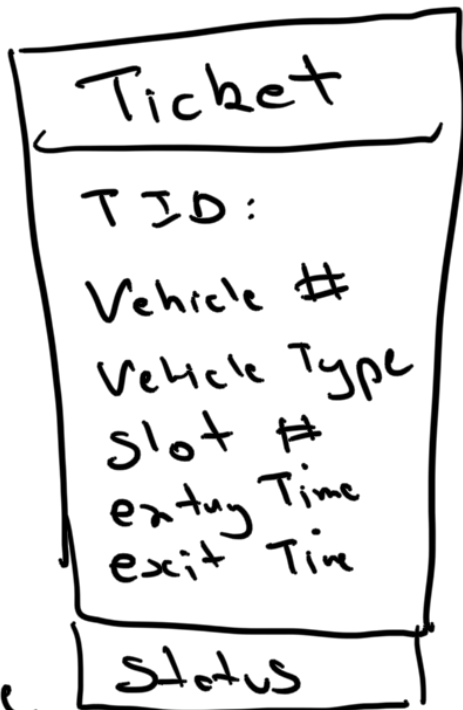




1:m



Payment



Gate

→ behaviour

→ operator ↔

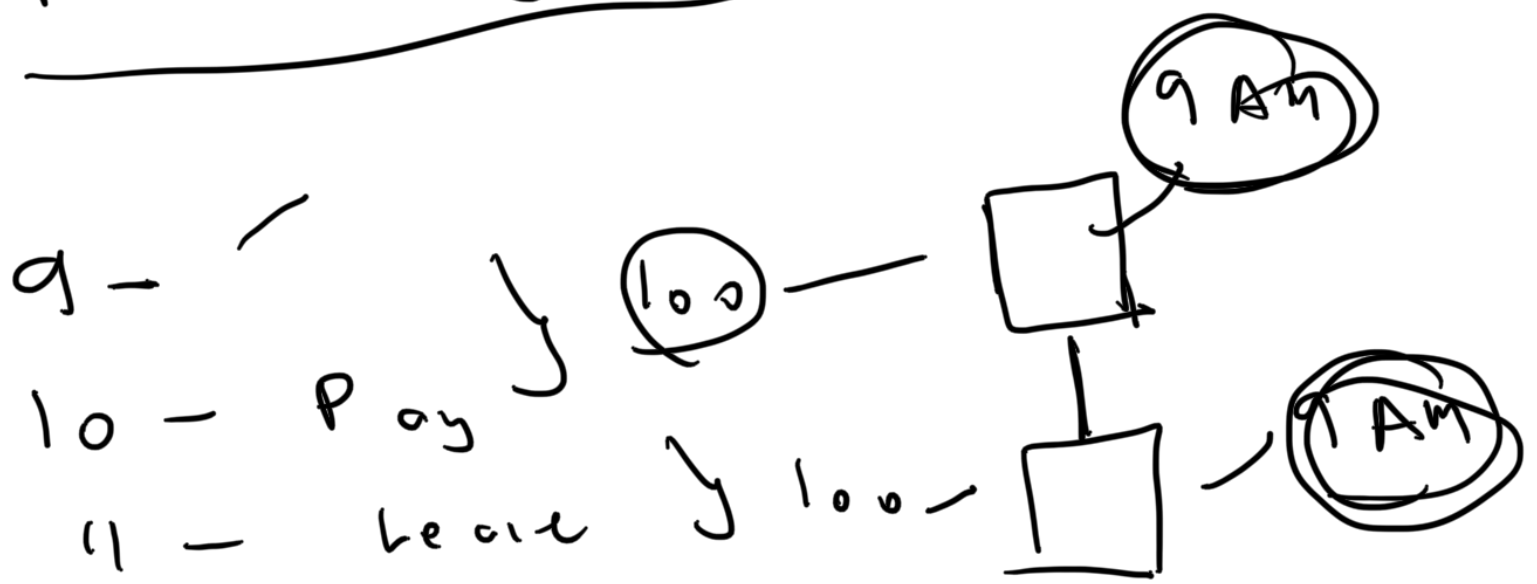
→ abstract class

9:00 AM - Check in

9:30 AM - Pay 80

11:00 AM - Check out

Partial Payments



Check in 9 AM

10 AM \rightarrow Pay

11 AM \rightarrow Pay + 1

Imp

\rightarrow Entry note

6:03
6:08 \rightarrow 10:38

Multiple invoices per ticket

m:1

SASS

LOT

B #1
D #2

Fees

↳ Fees Calculation

3 Types

↳ Pricing scheme

if (type == "SMALL")

{ calculate() }

else if (MD)

{

...

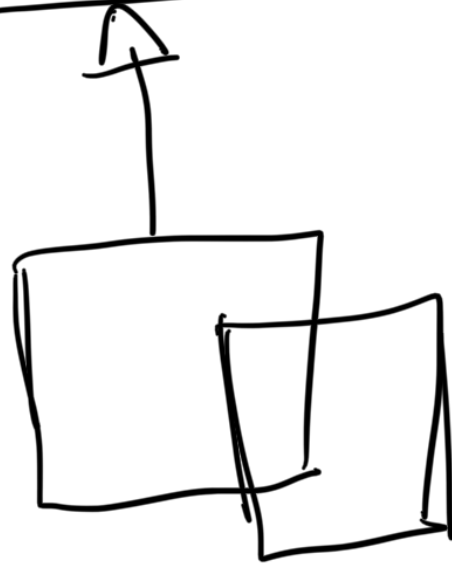
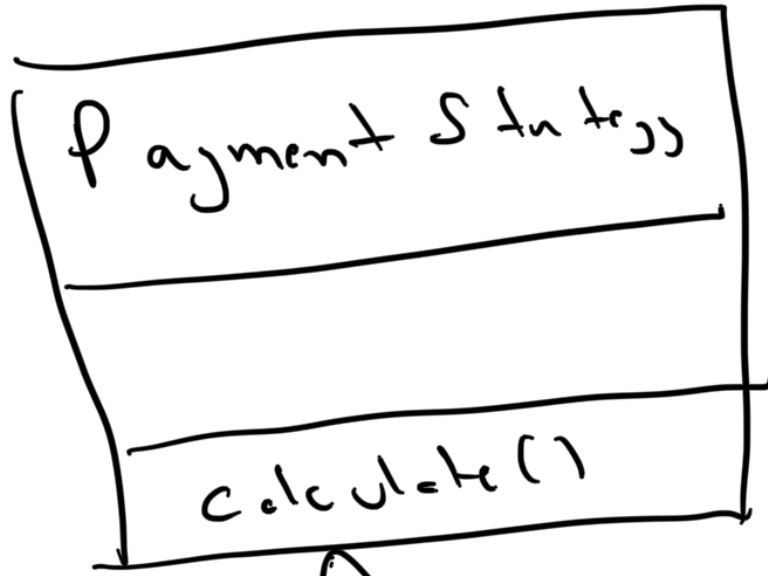
}

SRP
O/C

Calculate Fees

↳ Diff algorithms

Strategy



3 strategies



```
if (c == "sn")
    return SMVS()
```

else

```
return LAg
```

you can fetch different subclasses
on the basis of a parameter

Factory + Strategy