Design a parking lot management system

Tanmay Kacker

KISS Agenda Keep. 1+ simple stupial (X) Conteact O ver vie w De quinements 2 Clarifications Design En tit ies U se case diagram

_>>> Class diagram

5 Im plementation

Structure

POSOs | Models

→> U se c ~ ses

LLO -> Low Level det ails

Classes Enr ction alitics Relation ship >> Structure - Design Patterns co din o -> Design +imp.

. . .

-> Class diagram + -> Classes

>> Use case

functionalities

Problem statement

To Design tictac toe

Snakes & ladders

(I) Real would entity

~> Design a notebook

(2) 6 am es

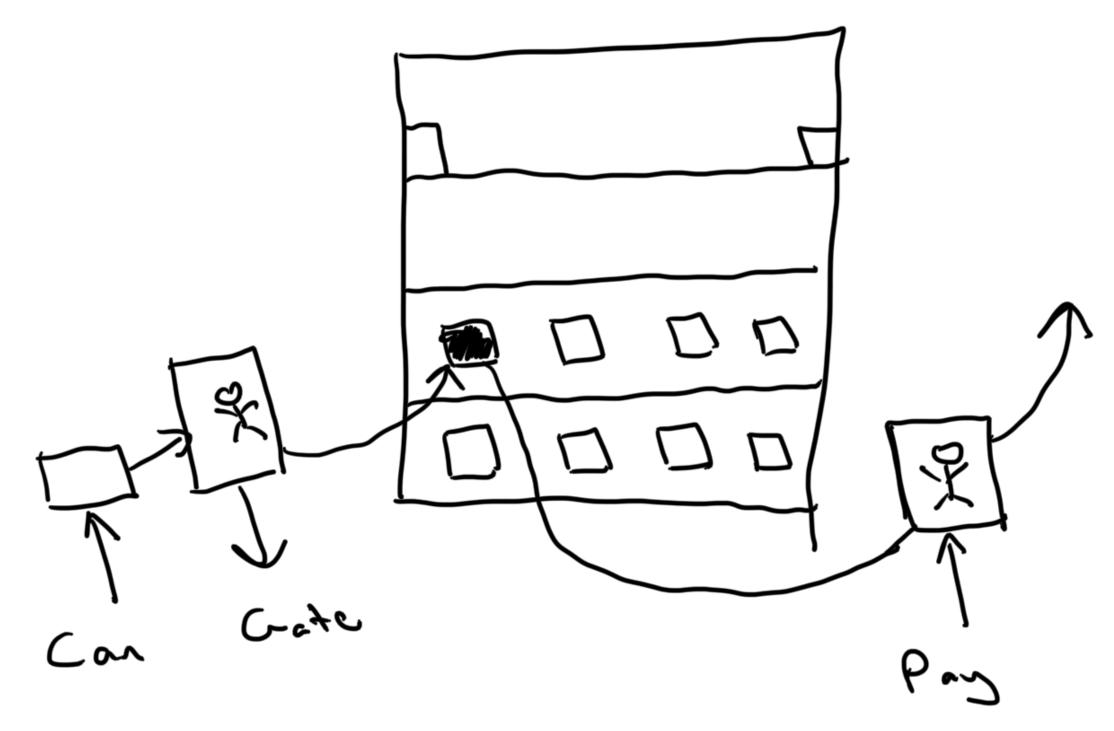
Management systems

(4) Technical

JRL Shontener

>> C ~ che





Ouestions

- (1) Current scope -
 - (1) Con me on/2 bons cresj
 - (5) N'II it pare maltible thousi
 - (3) How many entry lexit?

 Nultiple entry gates

 Nultiple exit gates





- (2) Fut une scope
- Behaviour

-> 11... can we pay

-> How do ne calculate fers). J Hou done know if a 2107 12 arraileps) Display board

cost = 1st boun + nom airing has

SMALL - 50, 80 MED - 80, 100 LARGE - 100, 120

How can we make pricing
extensible)

Problem -> overtions

J

S-10

U se case d'agram Z A Ctons -> Customen -> AHendont -> Admin ~

Use c ases _ functionalities

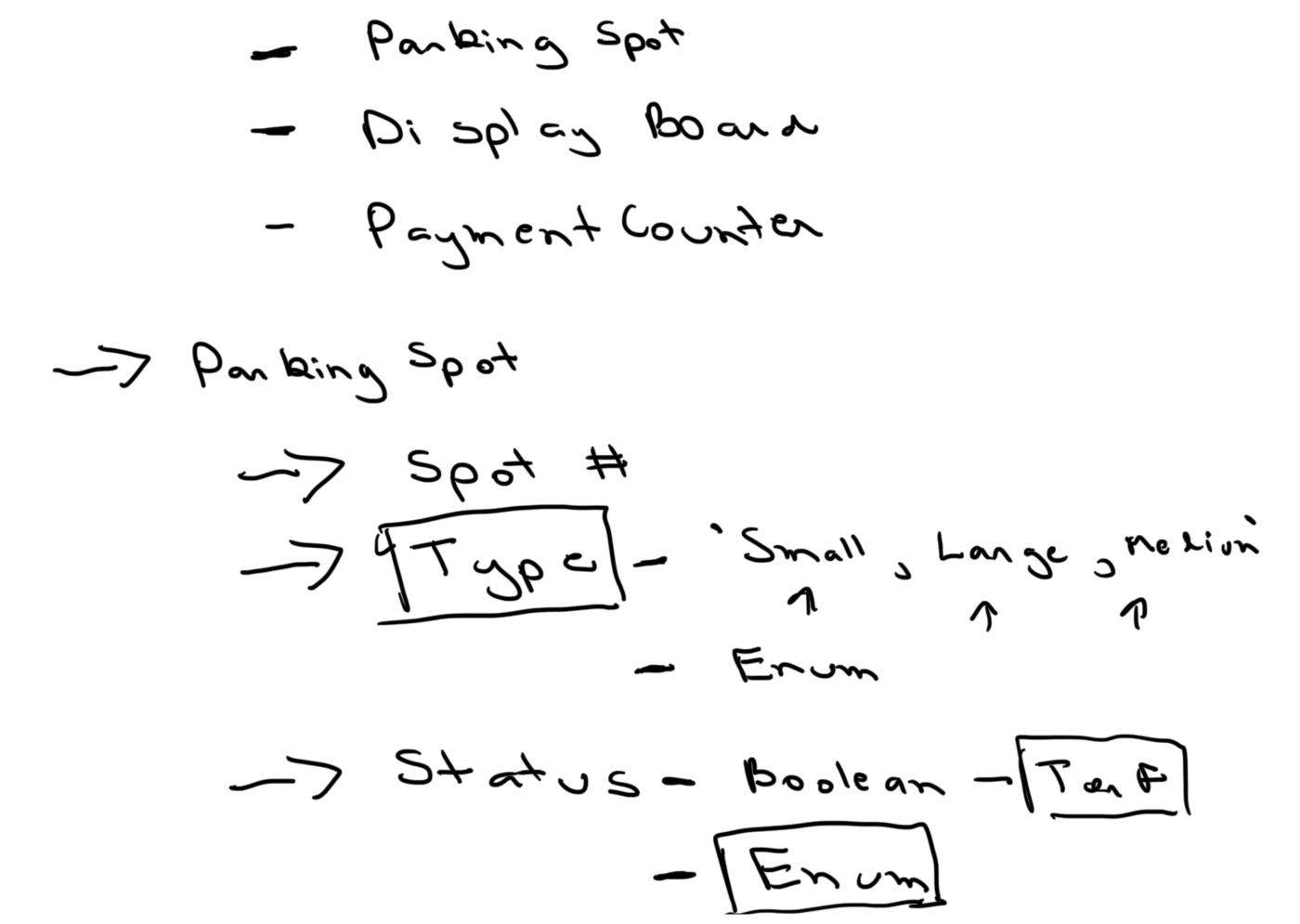
219 A common 45

UNL

C lasses

->> Parking lot 7 name V -> address -7 F100 ns -一 Extx2 Gates --> Exit mates --> Display bo and -> F 100r

= Floor #

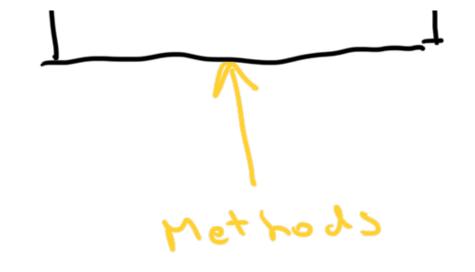


>03132 ->205 an

Ticket Jehicle 7 25... -> Spot / -> Entry time -> Customer 1 Pow bing Attendant

Invoice ->> Ticket -> amount >> b adveg -> Bai 6-to

Entry wite Class Diadram Rel ationah ips دده ای حر Type of rely >> attailes -> Condinality behaviour Hou sc C1 022 Nane - name: String Floor Floors: Floor E3 i int N Ctri Justra + Fielys



Theitance - 15 A

Man -> Human

B

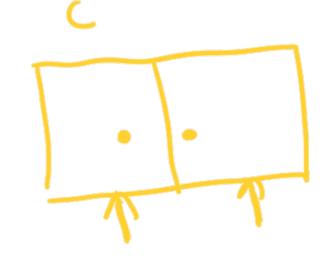
2) Association - has A

Car - sterring

(T) Com nosition







JEP Panent is

des troyed schild

con also be

destroyed.

3 Asgregation

Husb and

wife AHer dont Custone

Parent closs -> destroyer

Child -> not destroyer

aggrege tion

Note book -> [Page]

Composition

1

Hosband Father W

[W:W]

House



M

[M:1]

Application -> Scalobility

Maintainable

Exten sibb

[Model

Controlles Repositor