Today's agenda

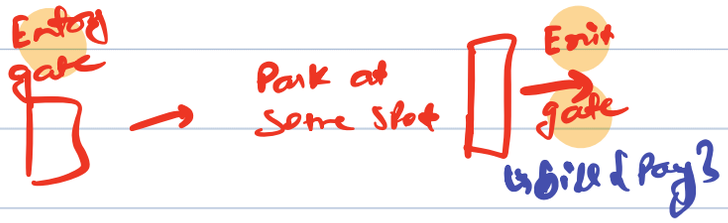
↳ Parking lot

AlgoPrep

→ Parking lot management System.

// Design Parking lot

① overview:
- Know → Put the knowledge that you have regarding the question & then ask is it what we are talking about.
- Don't know
  - ↳ I haven't used any Parking space,



→ ① Class diagram or Entities or complete working of Parking lot? ✓

→ ⑪ How to take input?
- ↳ Hardcode the input ✓

→ ⑩ Real db or mock
- ↳ We the memory ✓

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// Requirement Gathering

(i) Parking slots (based on diff type of vehicles)

(ii) How many floors in Parking lot?? XX
↳ is it 1 floor or many floors? ✓

(iii) A token is given to you at entry gate.
→ Strategy design pattern

(iv) Calculation of Amount & a bill will be given to you at exit gate.

(v) Payment can be made via a specific mode or user will have multiple options.
↳ Some kind of third Party Service you will be using → (Adapter)

(vi) do we have really slot booking?
↳ NO

(vii) Same gate as entry as well as exit → will we have diff gates?

(viii) the slot allocation can be configured? (can we assign car slot to a bike if needed? → NO

(ix) Does it support valet Parking? → NO

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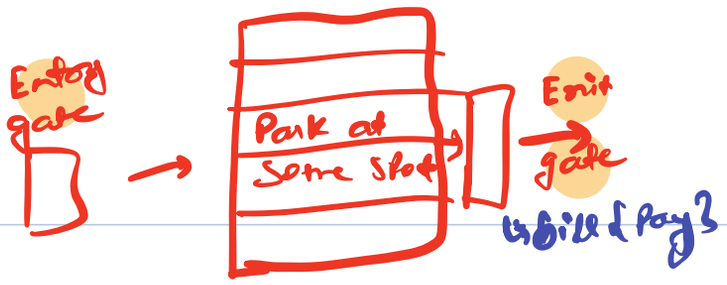
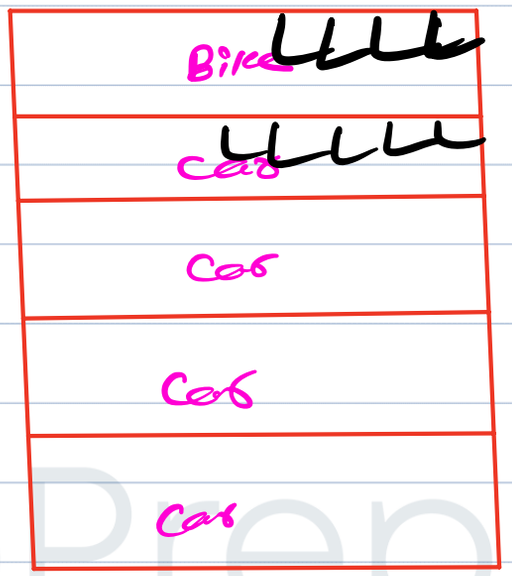
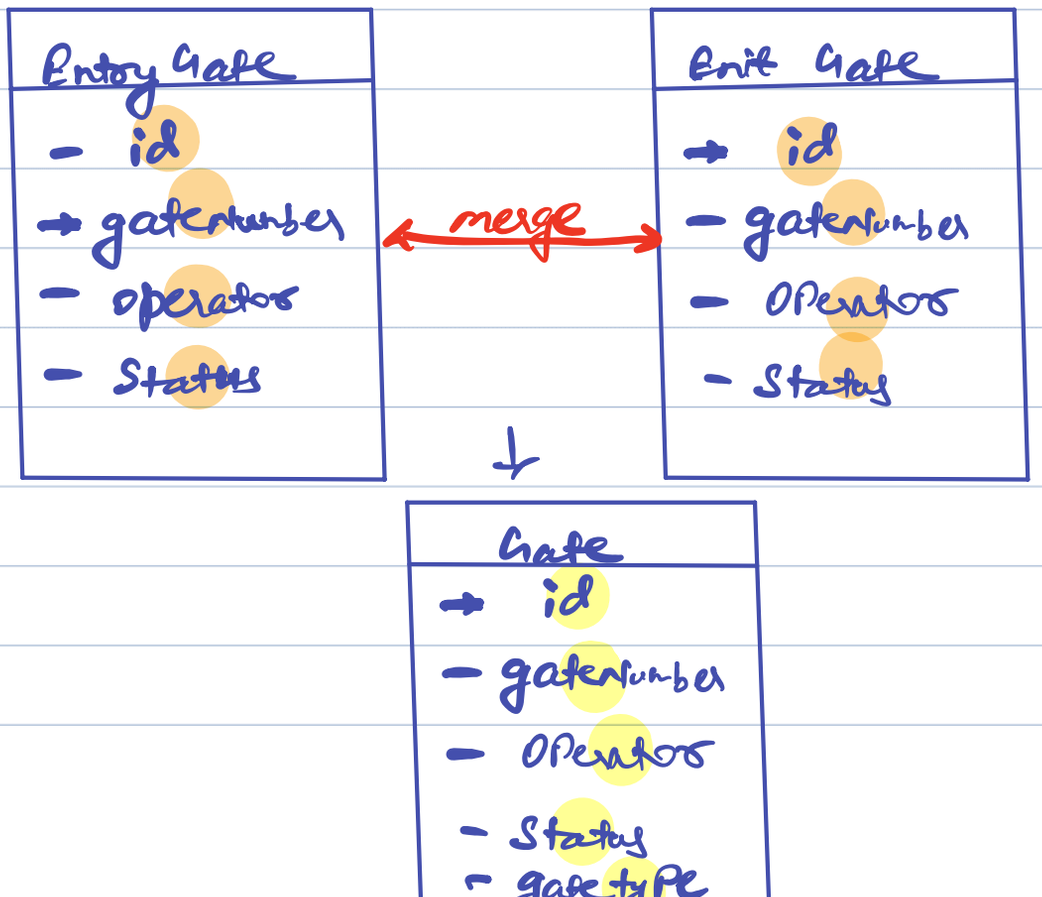
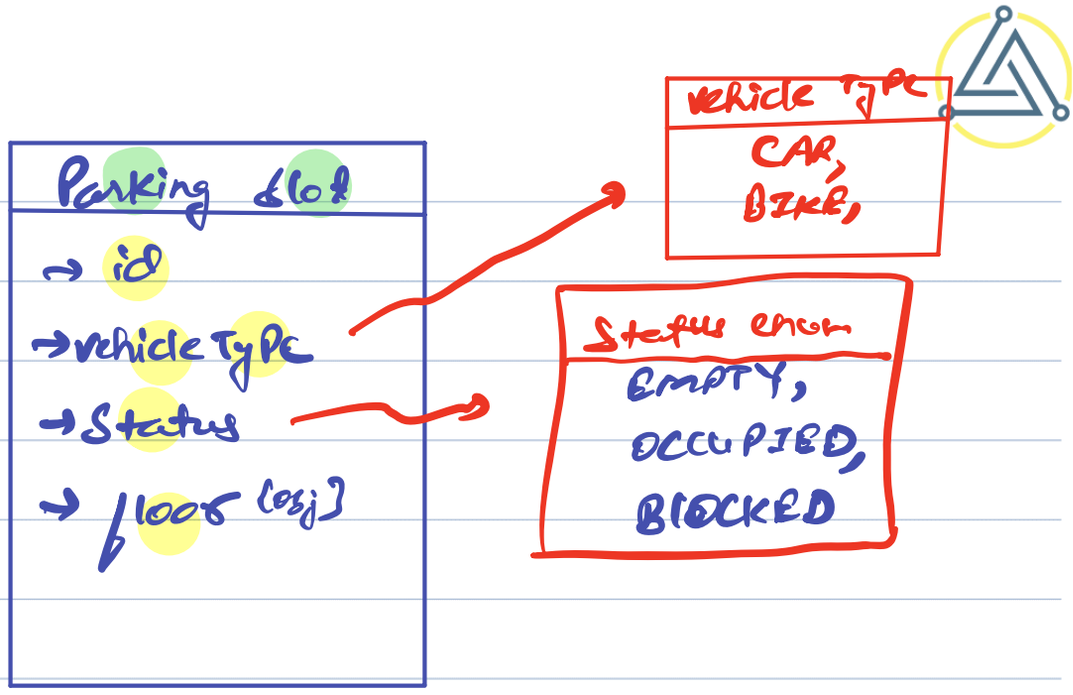


// Class diagram → Nouns, Visualization

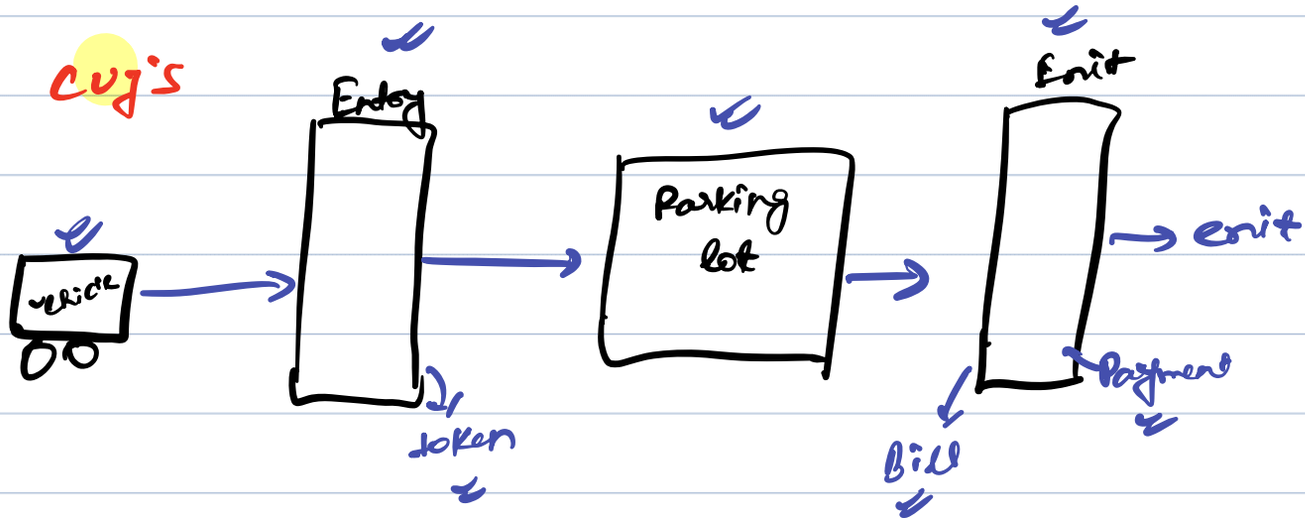


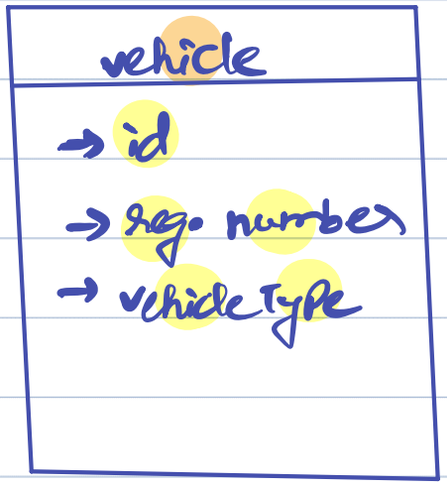


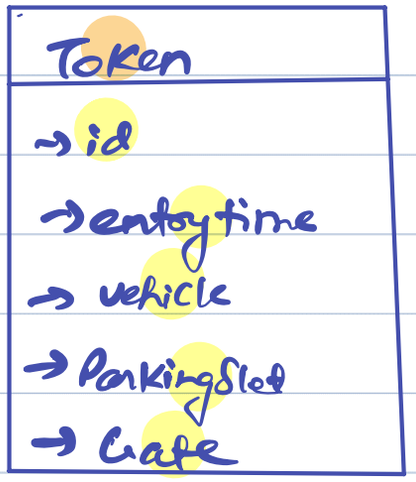


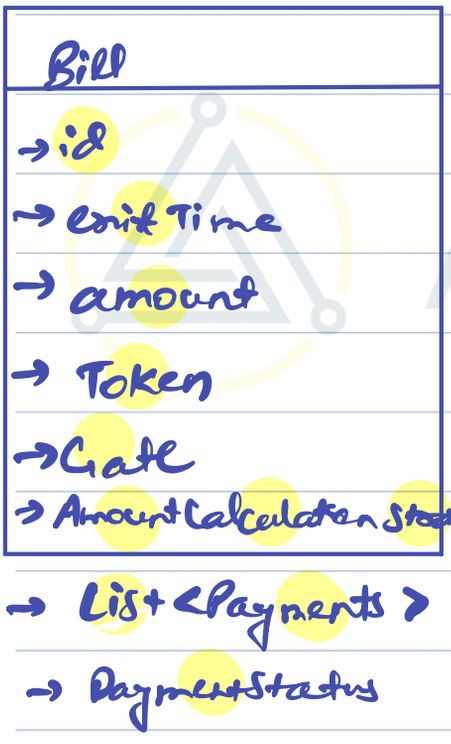
Ls when we are storing Id for association with other entity & ID can be replaced with Instance, it's always a good practice to do it.

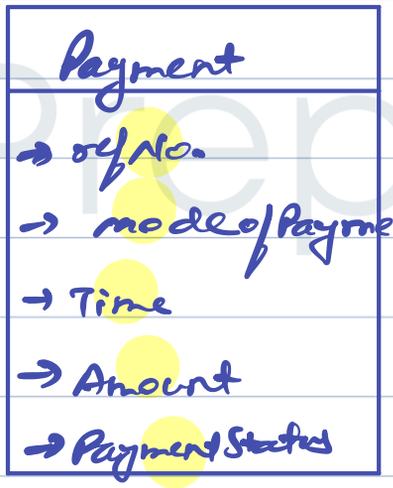
Break till 10:25 Pm




vehicle
→ id
→ reg. number
→ vehicleType


Token
→ id
→ entryTime
→ vehicle
→ ParkingSlot
→ Gate


Bill
→ id
→ exitTime
→ amount
→ Token
→ Gate
→ AmountCalculationStrategy.
→ List<Payments>
→ PaymentStatus


Payment
→ ref No.
→ mode of Payment
→ Time
→ Amount
→ Payment Status

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