

Contact



Very Important

Agenda

- 1) use case Diagram
- 2) class Diagrams

UML Diagrams

→ Unified Modeling language.

PhonePe

communication → via email ✓
→ via gmeet (video conference) ✓
→ slack / messaging apps. ✓

↓ in words

miscommunication

→ Solution : Visual Diagrams

Product Manager
client

} → Explain what you
are doing (business)

Followers / Peers

} → Get reviews

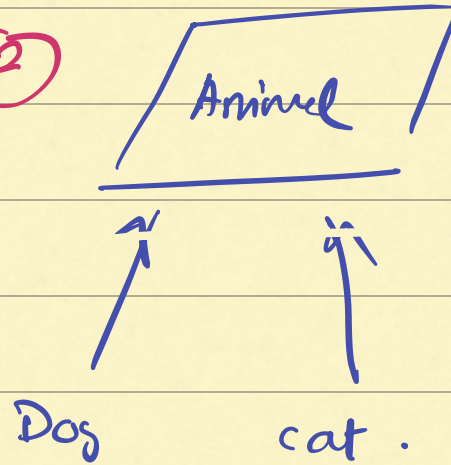
Senior engineer

Technical Archited . \rightarrow Get approvals

①



②



UML

Structural

Behavioural

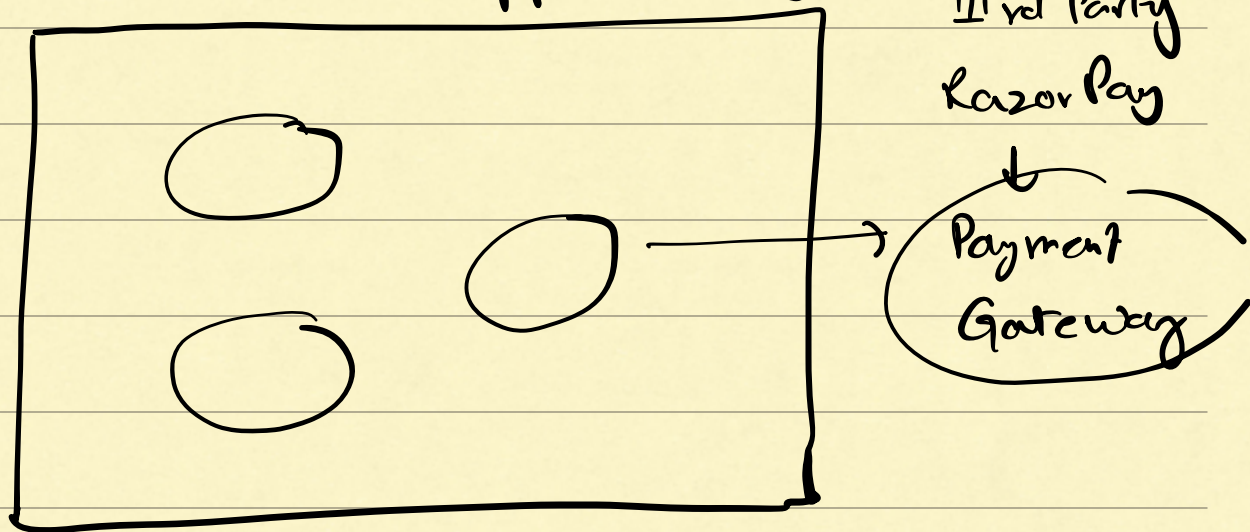
- Class Diagram
- Object Diagram
- Package Diagram
- Component Diagram

- Use Case Diagram
- Activity Diagram
- Sequence Diagram.

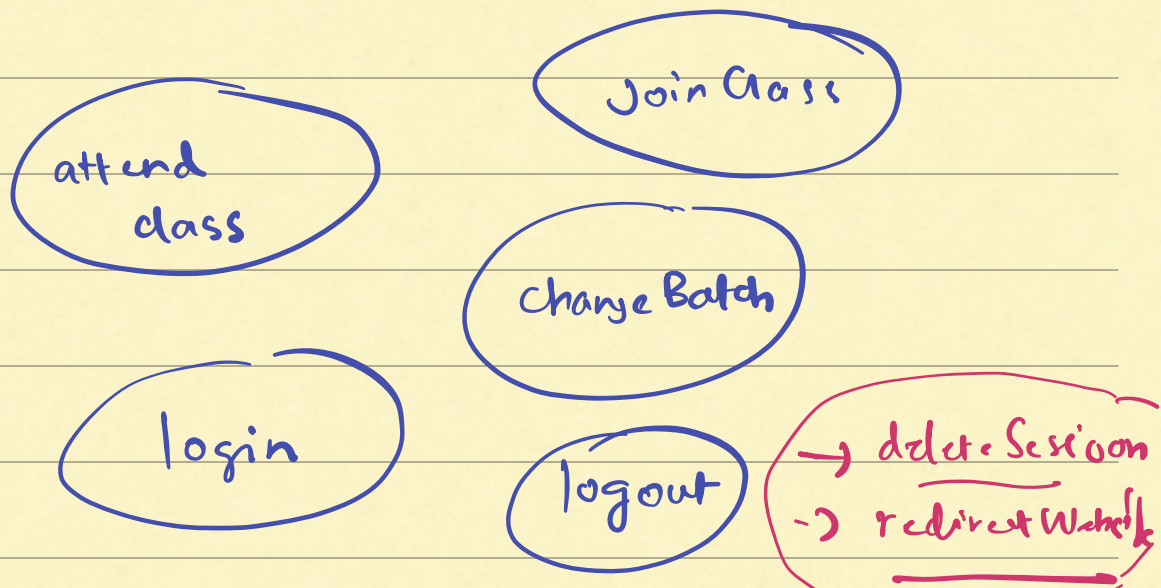
Use Case Diagram :

5 important keywords to Use Case Diagrams

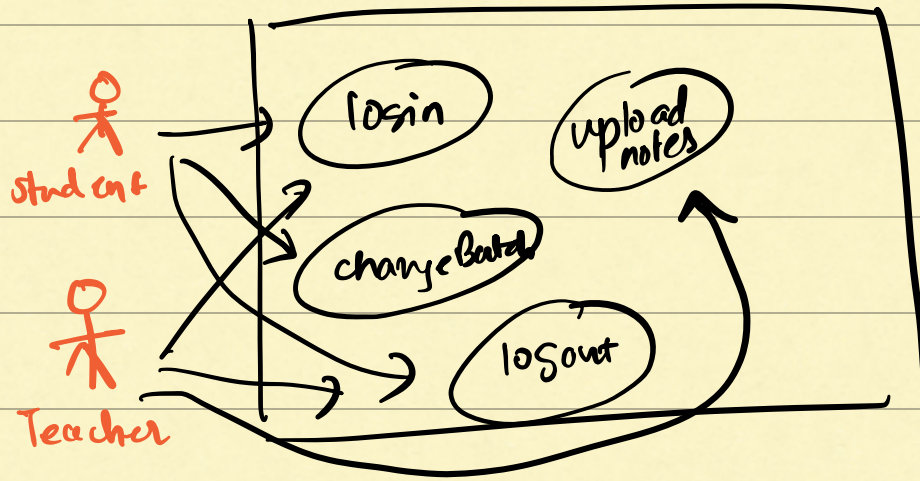
1) System Boundary : It contains functionality supported by you.



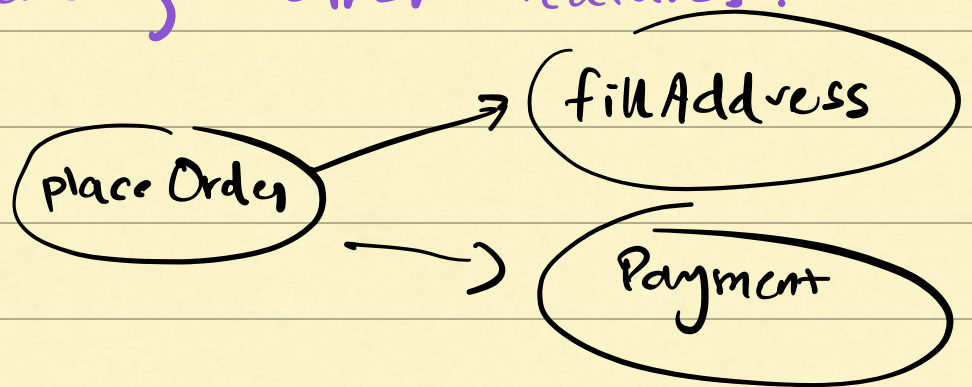
2) Use Case : It is the feature / functionality
It is written in a oval
It must be a verb



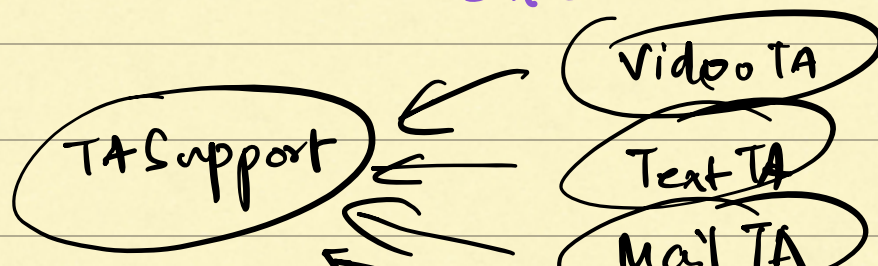
3) Actor : People who uses the use-case.
Drawn with stick figure

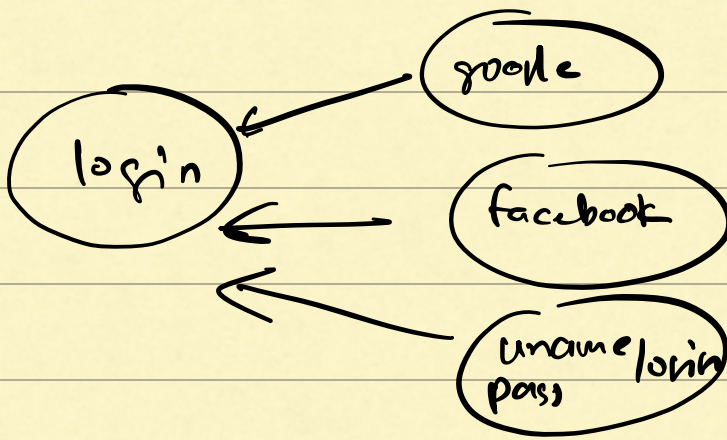


4) Includes : Needed to represent a feature (use-case) which is including other features.

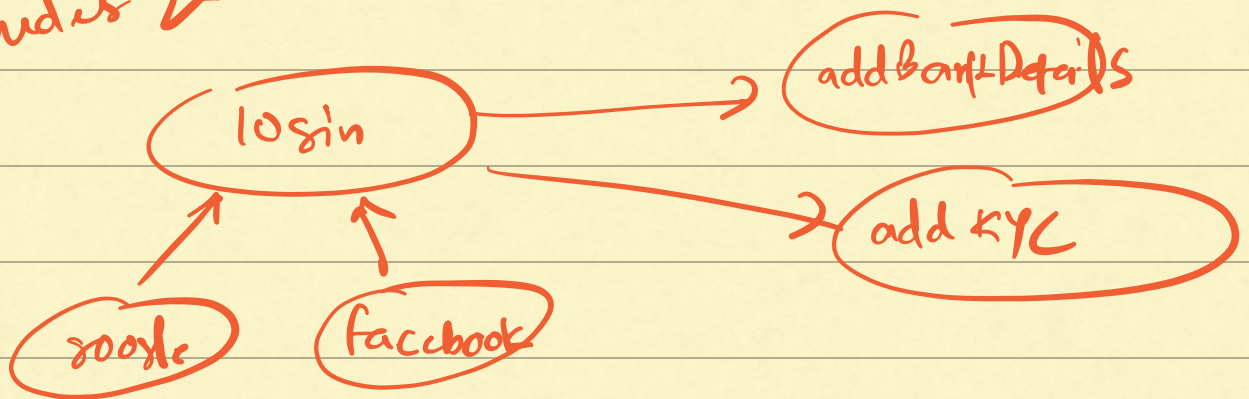


5) Extends : Variant of features.
Like Inheritance.





Common way of putting includes & extend.



Break till : 8:05

1) 3 use case

2) 2 Actors

3) 1 Include & 1 extend

} Scaler.

Instructor

attend class

join class

upload notes

live session

1
recorded session

Problem:

not every one join in class will upload notes

Student

attempt contest

live contest

Expired contest

Instructor

view dashboard

Instructor

Instructor

Student

Student

instructor
dashboard

student
dashboard

Class Diagram:

Different Entities:

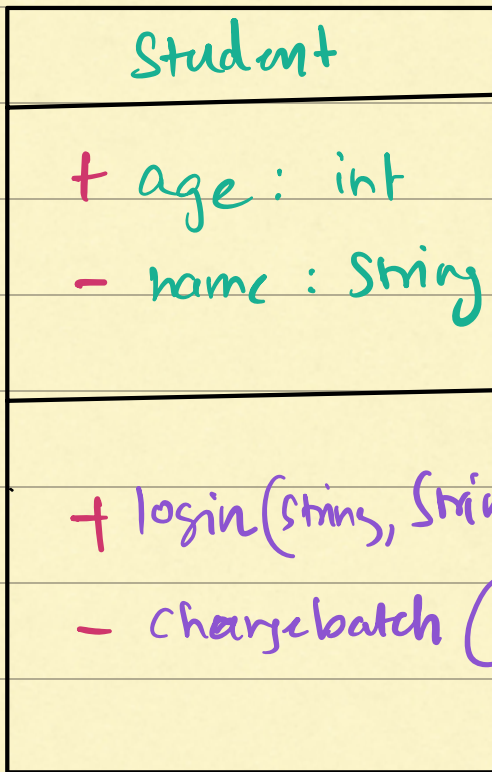
- classes
- interface
- abstract classes
- enums

Different Relationships:

1) IS-A → Inheritance
→ implements

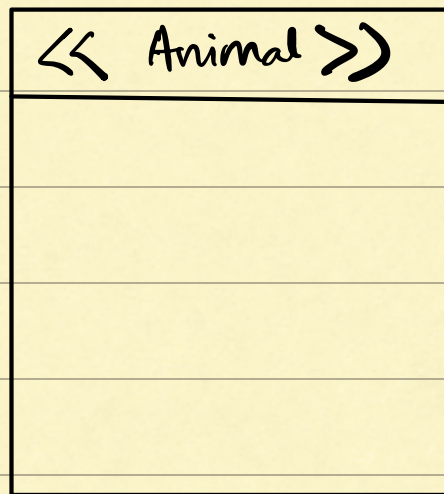
2) HAS-A → Aggregation
composition

Class

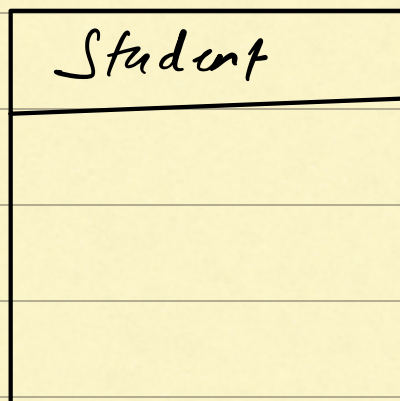


+ public
- private
protected

Interface

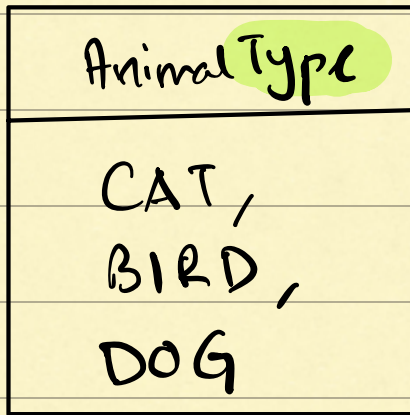


Abstract



→ Italics

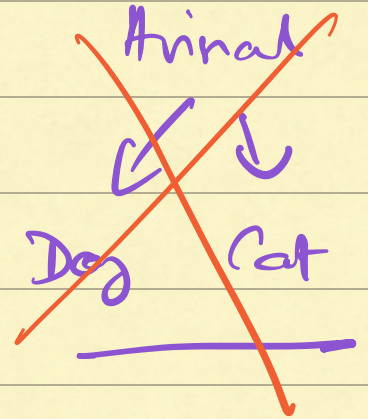
Enums



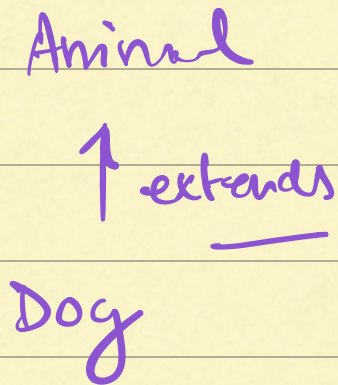
→ AnimalEnum.

Relationships

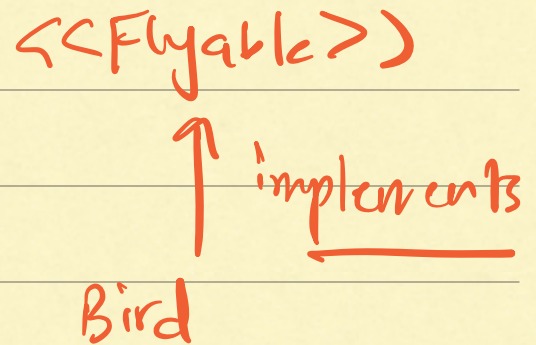
IS-A



Inheritance



Interface.



HAS-A

- Composition
- Aggregation

class A {

classB obj;

}

Aggregation

→ It's a
collection of

→ weak
association

Composition

→ It's made up
of

→ strong
association

BMS

class Booking {

Show show;
Movie movie;

}

class booking {

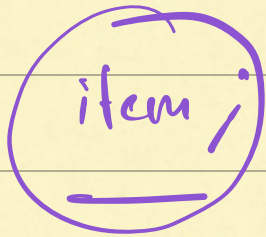
Ticket ticket;

}

X

class Order {

Item



} X



class Order {

PaymentDet pd;

Transaction t;

