

Problem Statement: some Buids demonstrale a behaviour & som doesn't:

Lest < Bird > __;

slasses: - entity

who con

fly.

Bud (Flyable >>

(eat())

(eat())

(a)

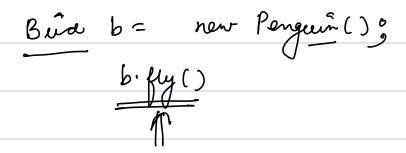
La Dancer >>

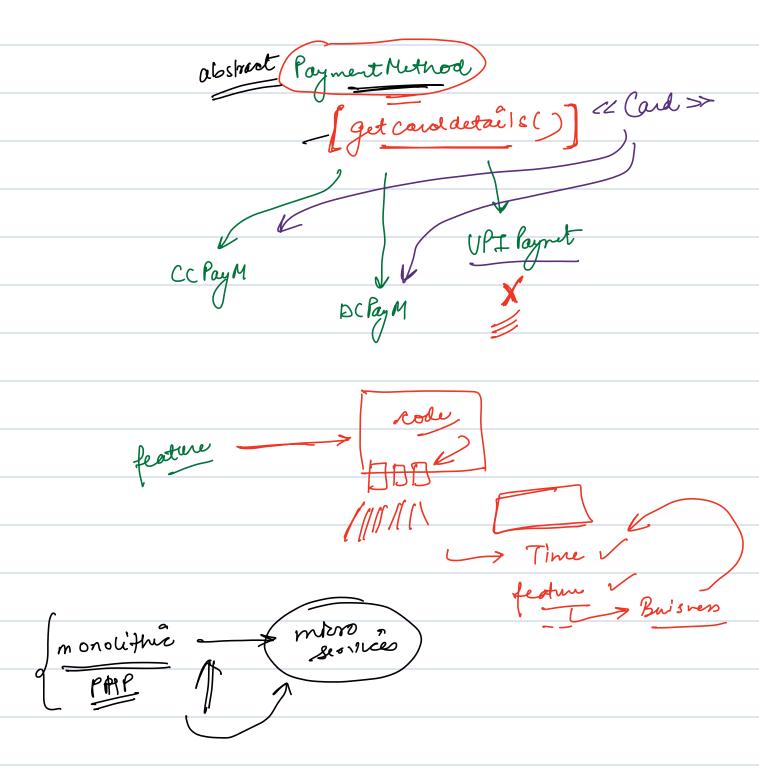
Sparrow Peacock Pengin Eagee

donce()

liskov's substituion Principle

Object of an sub-class should ke as-IS
substitutable û the parent class
ref without any code change.





A n = new B(0);B

about mokelayment() 2

about get (and betails)

CC DC UPI lay met probable

CC DC UPI lay met probable

chosen UPI — get cand details

Card Victing & card

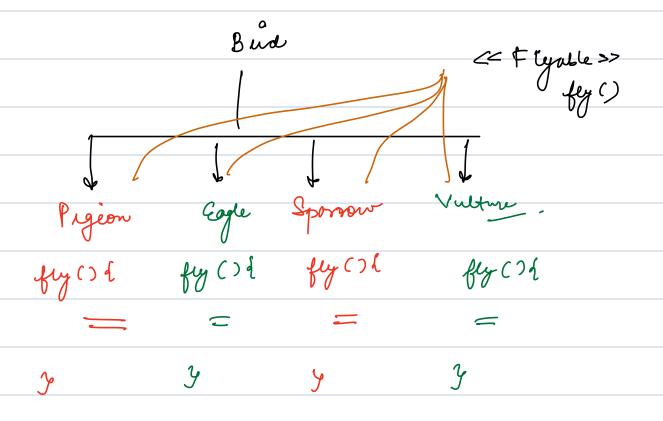
dosometri (layment Method enf) &

PM M2 = ((C) the

CCPM Mg2 = (cc) frif uf 2. get can Détails ();

Interface seggrégation Punciple Some Bude con fly () Some Buds can dance () Are the builds who can fly com also dence by vice-versa fly()
dance() << List >> add () / Interfaces should be as light as possible - (Ideally) interfaces should have one abstract method

Dependency Invasion Pernéple



class thightlying h

defly () h

g

g

Pigeon & fy () { << flying Benevious >> LowFu Highty. Pigeon d new lowfy() Fying Benavious £6 = fly () { foodoflying (); ሃ

Pigion - > Lowflying

Pegeon - Interface

(ow fly telegrify

No 2 concrete classes should be désertly dependent on each other, instead should be dependent via criterfoces.

" rode to interfaces not to implementation".

