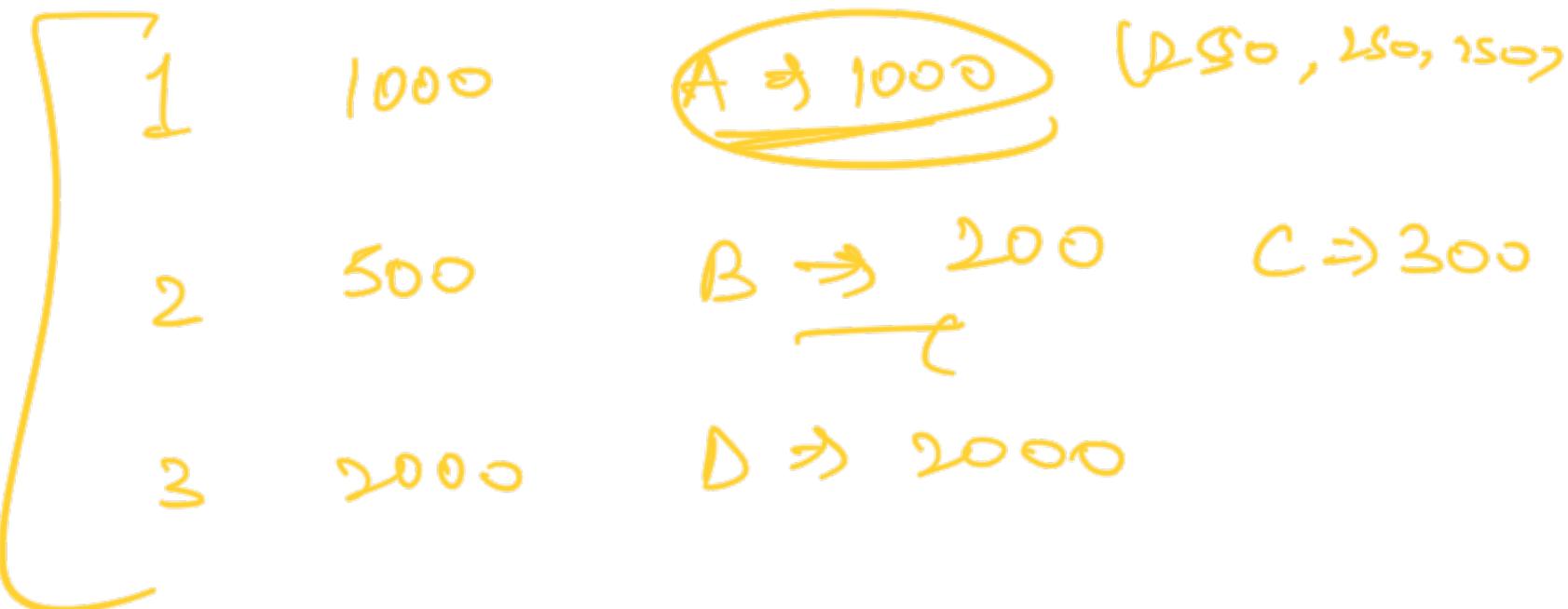


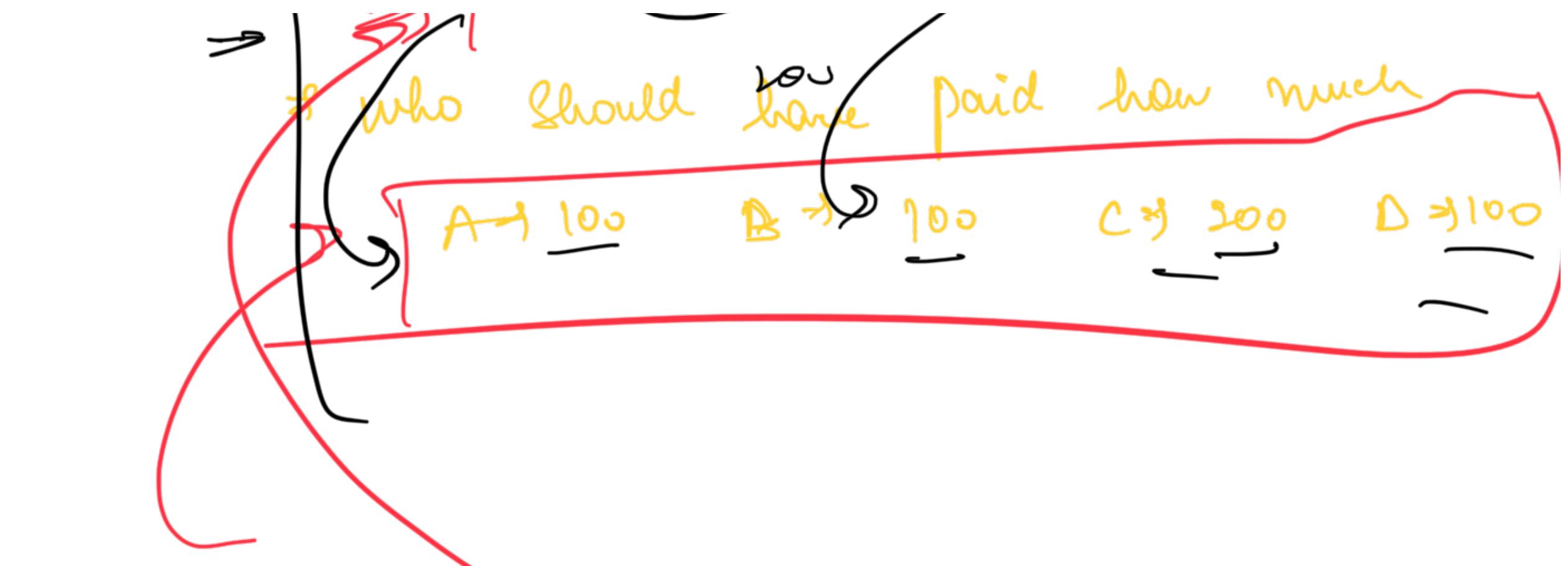
# DESIGN SPLITWISE

→ Overview



→ Stone expenses





Restaurant

4 people order food

$A \rightarrow 200$   
 $B \rightarrow 300$

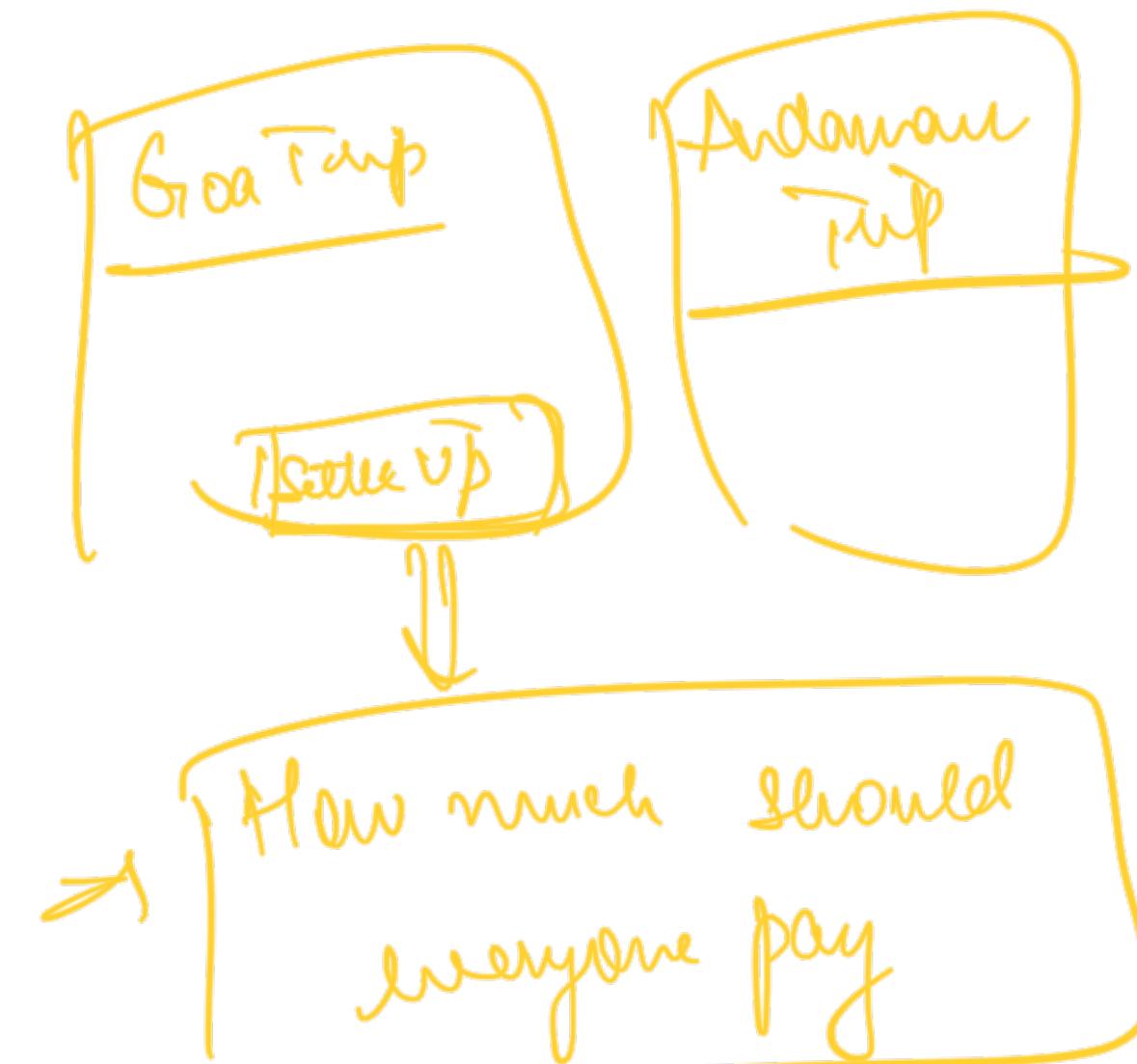
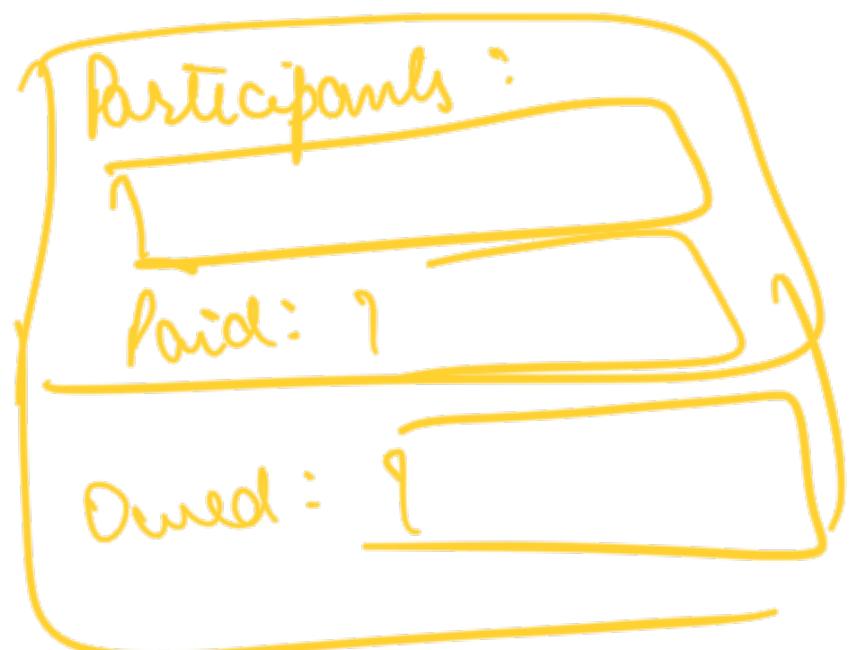
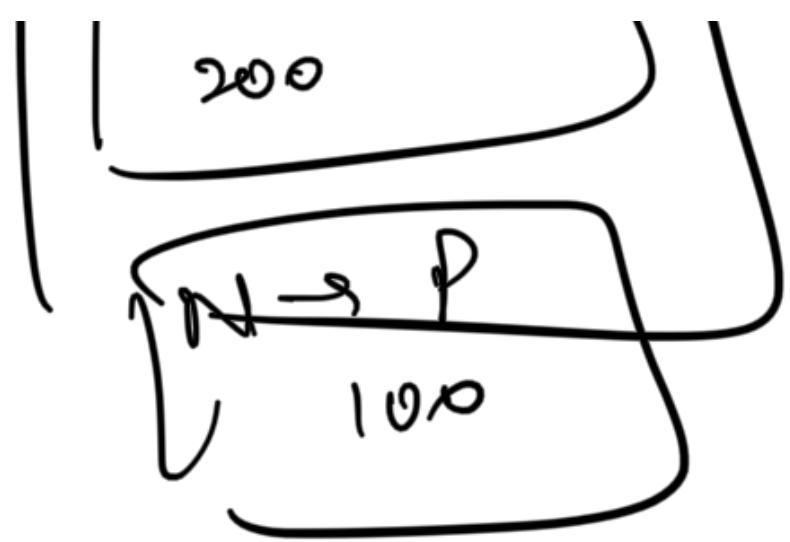
$C \rightarrow 500$

$D \rightarrow 500$

$A \rightarrow 1500$

→ Splitwise allows us to manage expenses either  
within a group  
or with friends.





$\Gamma P \rightarrow N: 200 -$

$C$

$A \rightarrow N = 100$

~~$P \rightarrow A = 400$~~

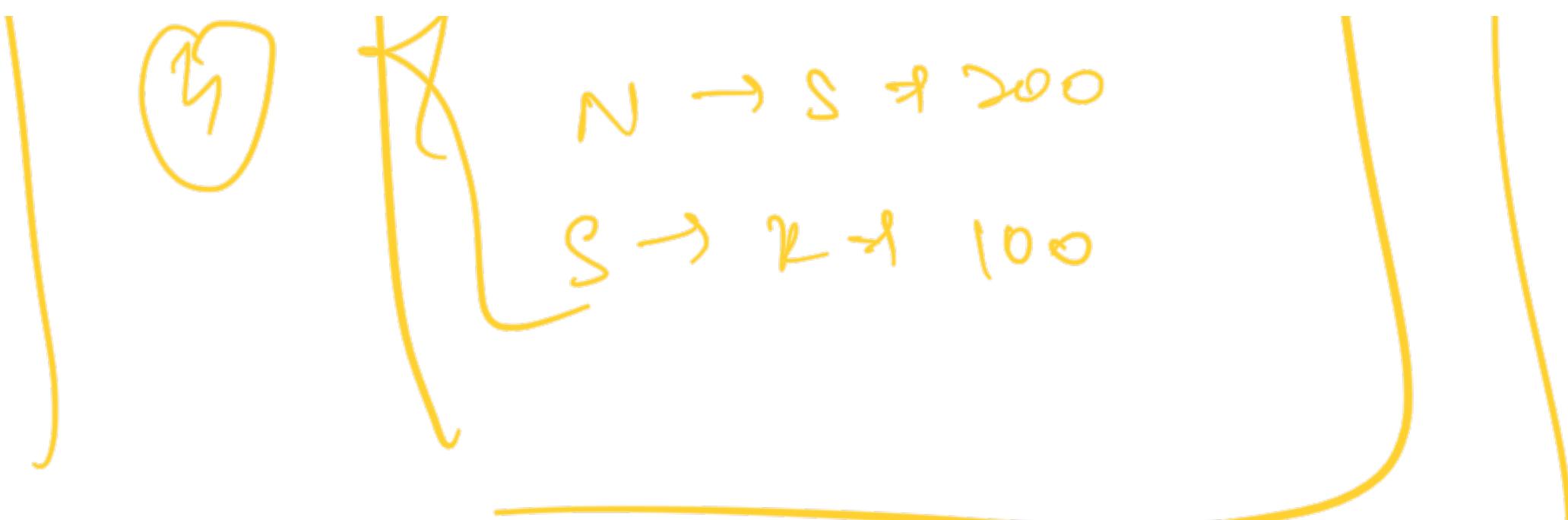
$K, N, A, C$

Settlers

Group

$K \rightarrow A \Rightarrow 200$

$A \Rightarrow N \Rightarrow 100$



→ Every expense has a base currency.  
Base Currency is selected by user when  
Creating the expense

₹

Paid : A: 200

Owed: A: 100

B: 400

B: ~~200~~ £ 200

1 ₹ = 1 dollar

1 ₹ = 2 dollar

Person B

C: 600 \$

Go through req:

for every req, see if it should be a  
class that is stored in DB,

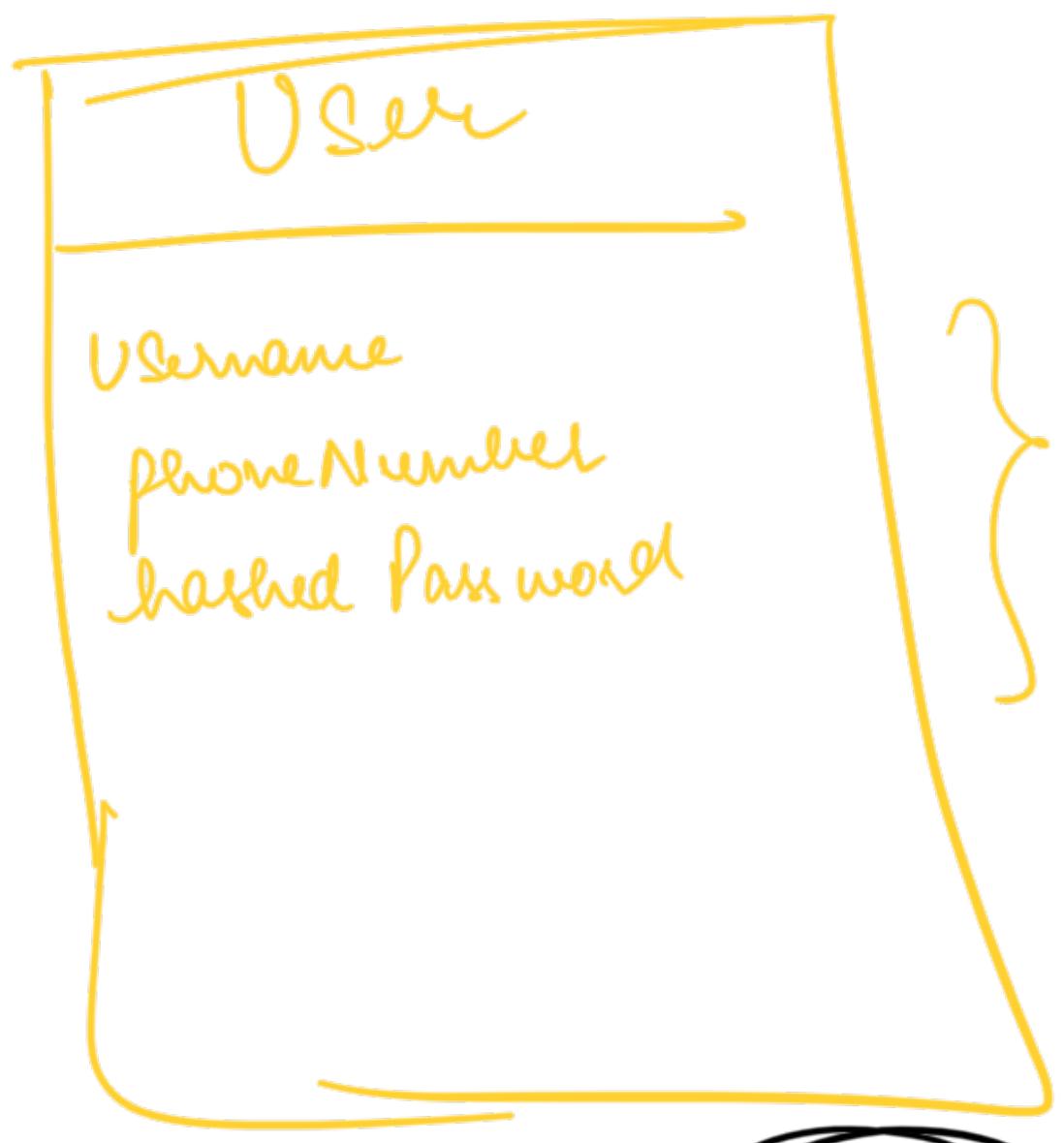
If yes:  
add in class diagram

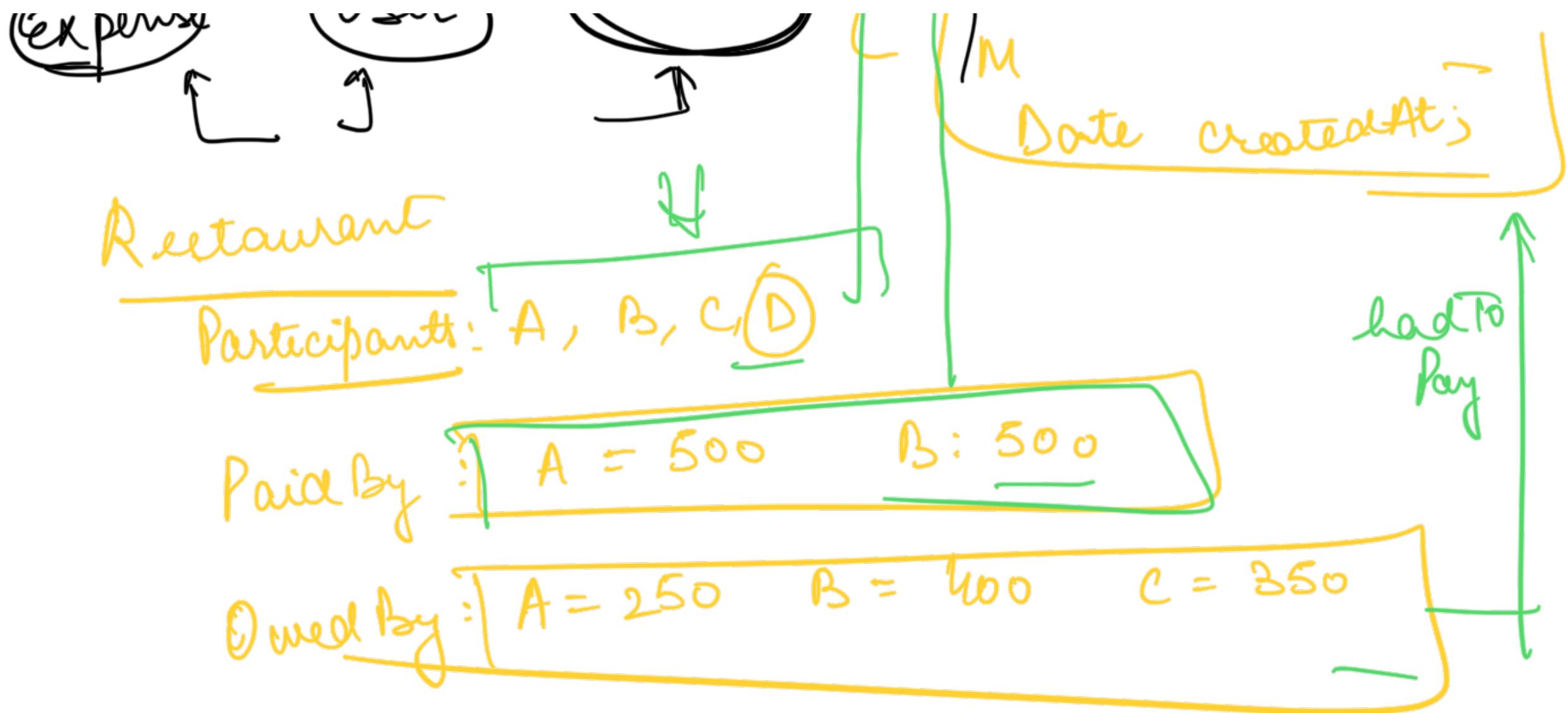
10: DSPM

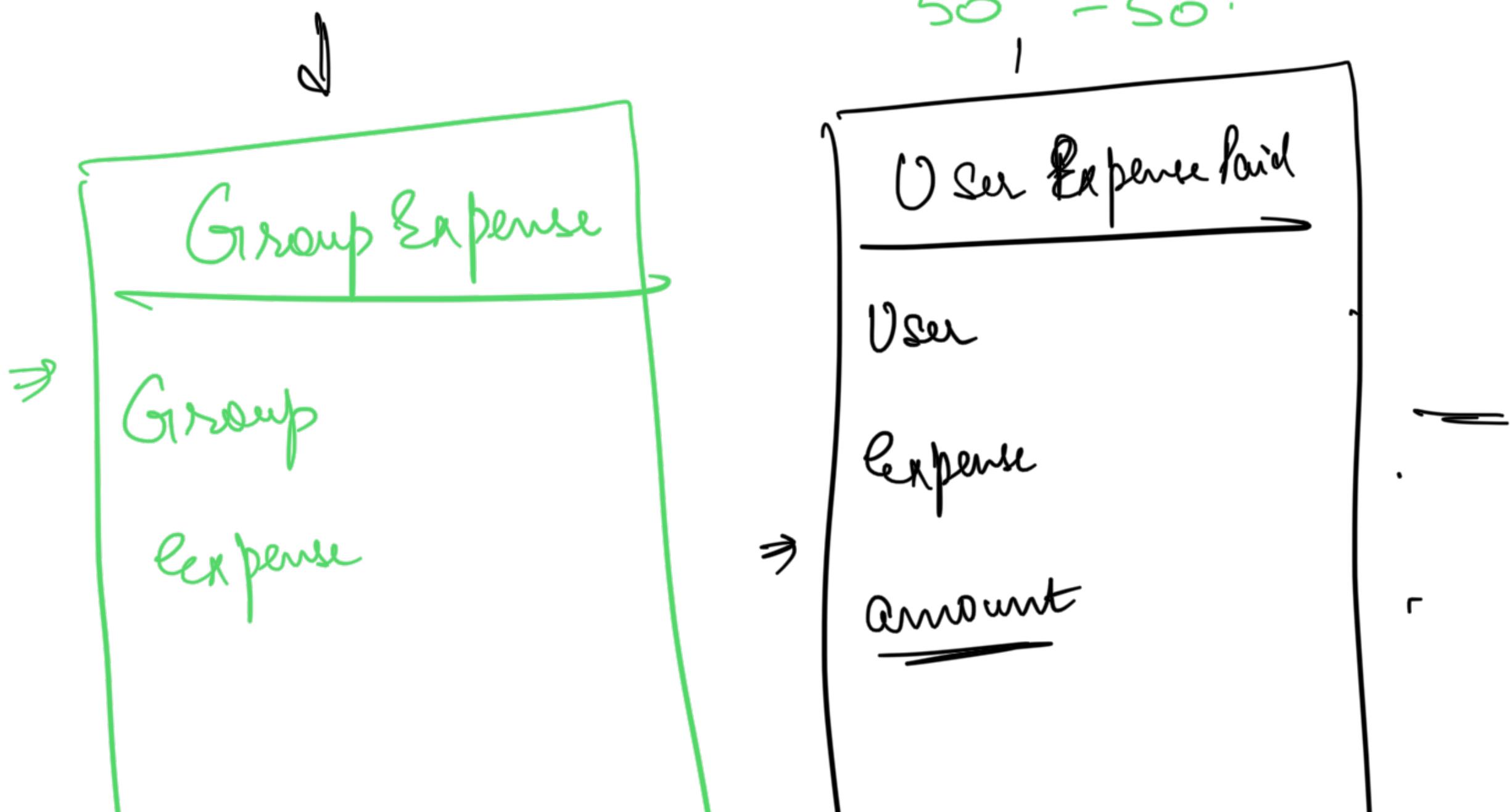
Temporary

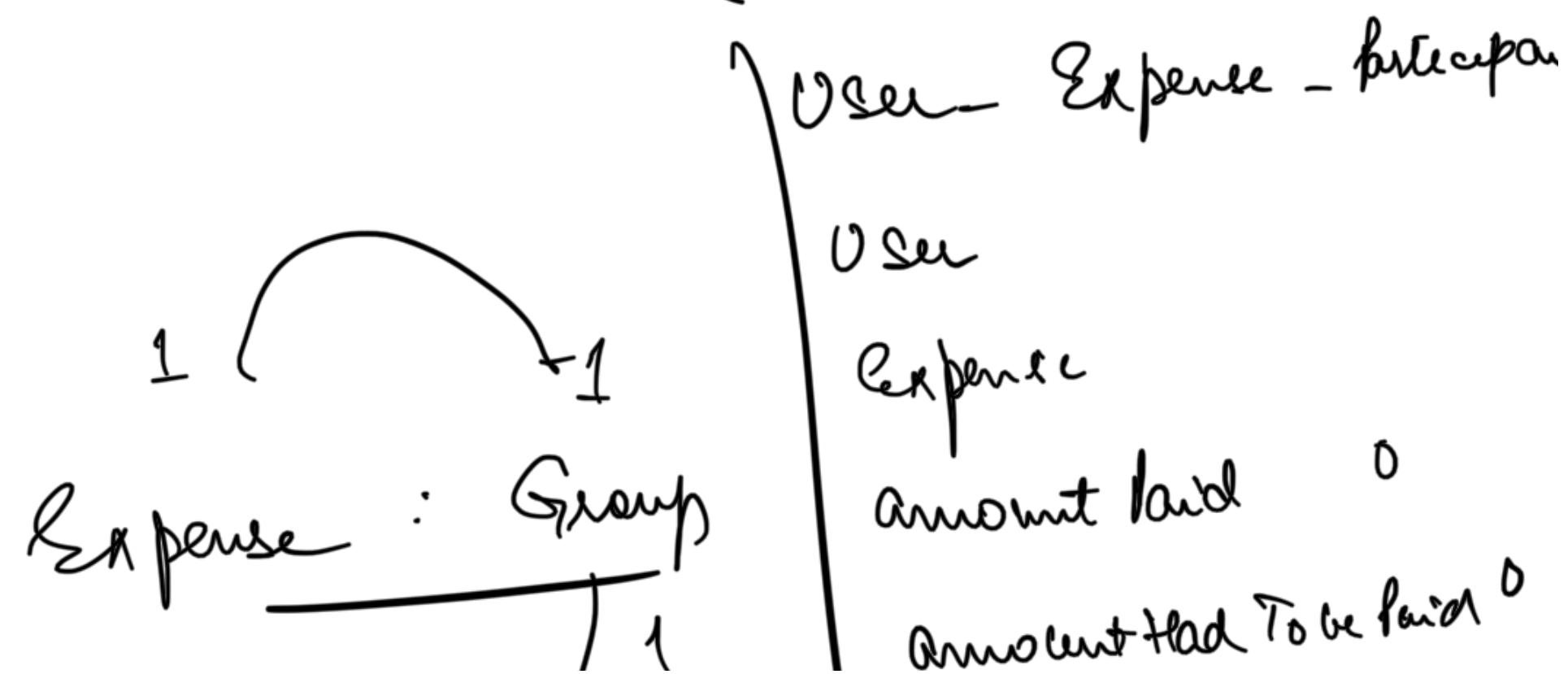
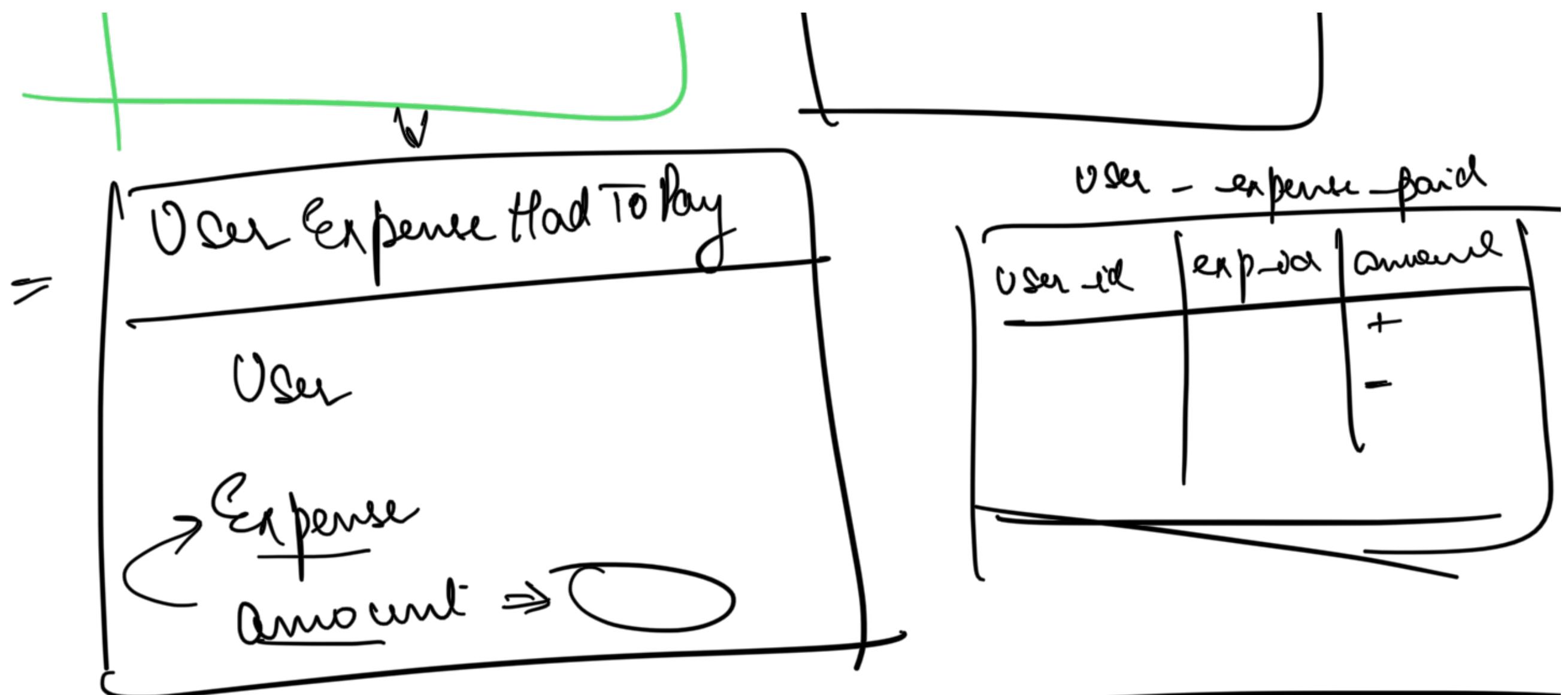
~~Transaction~~

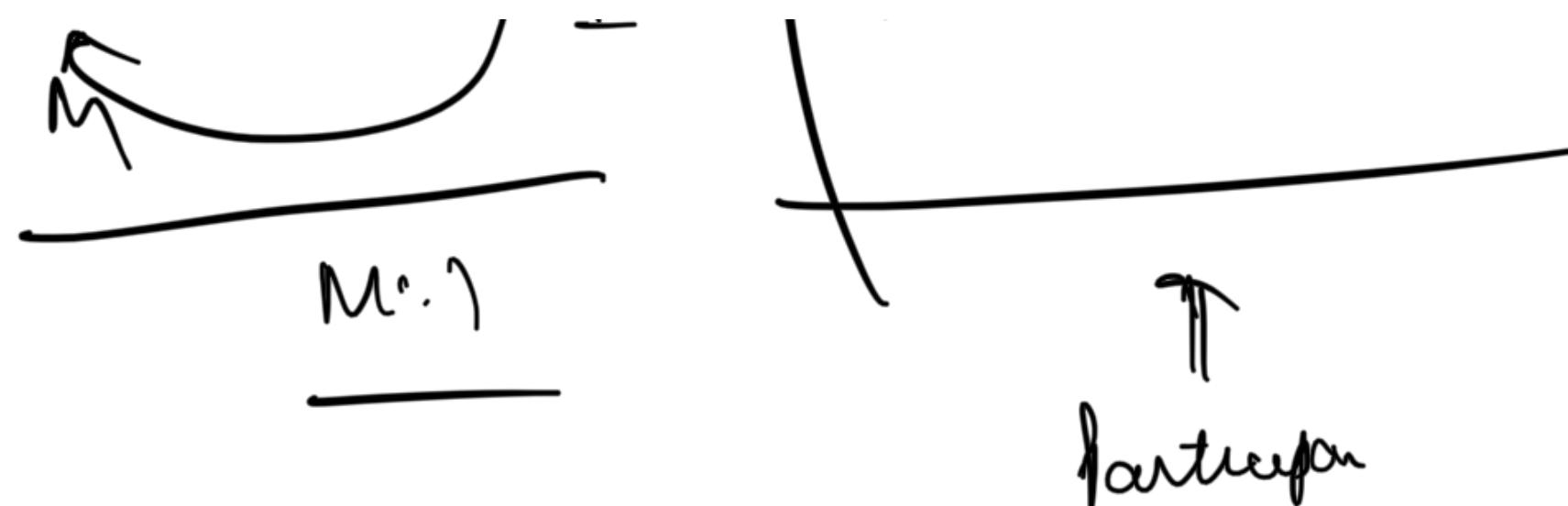
~~Expense~~



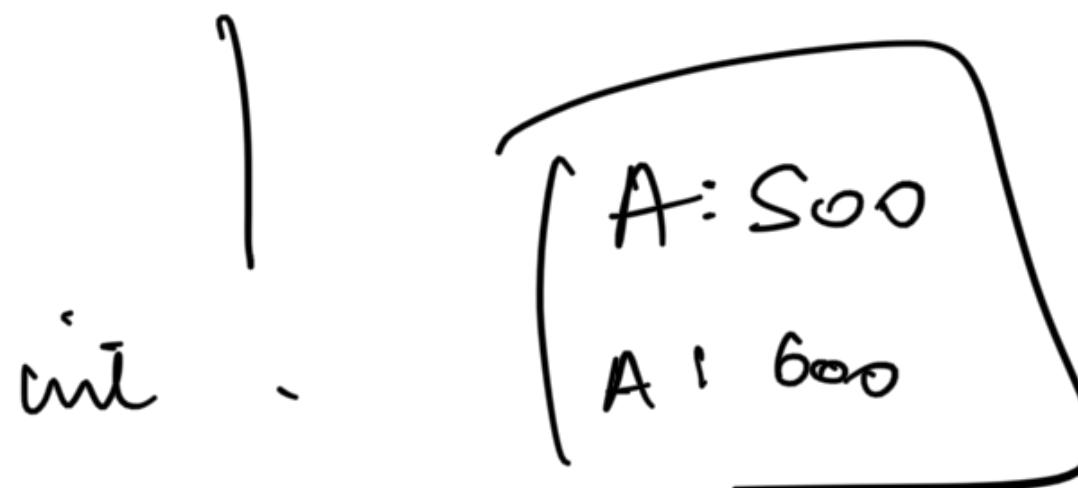








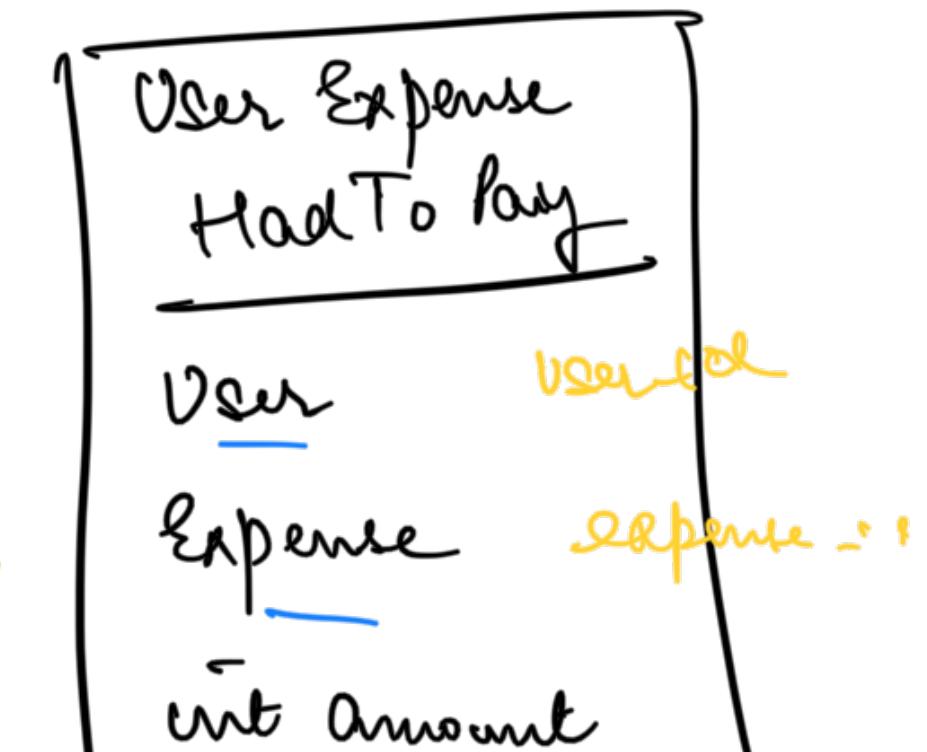
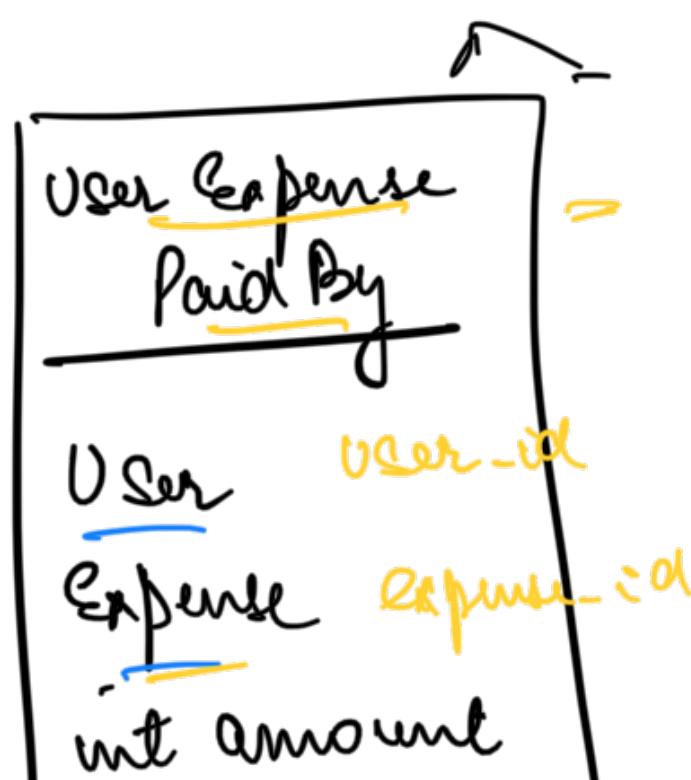
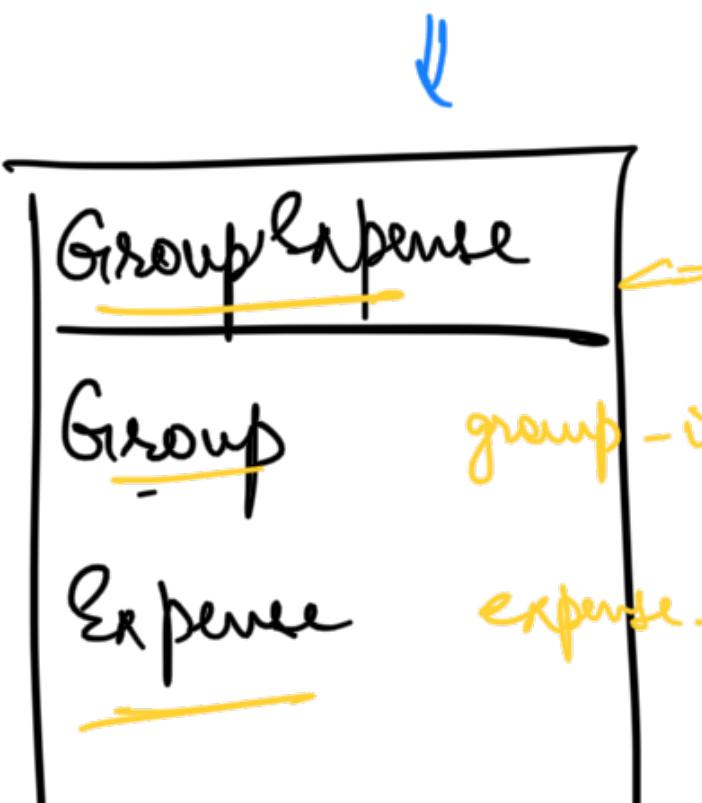
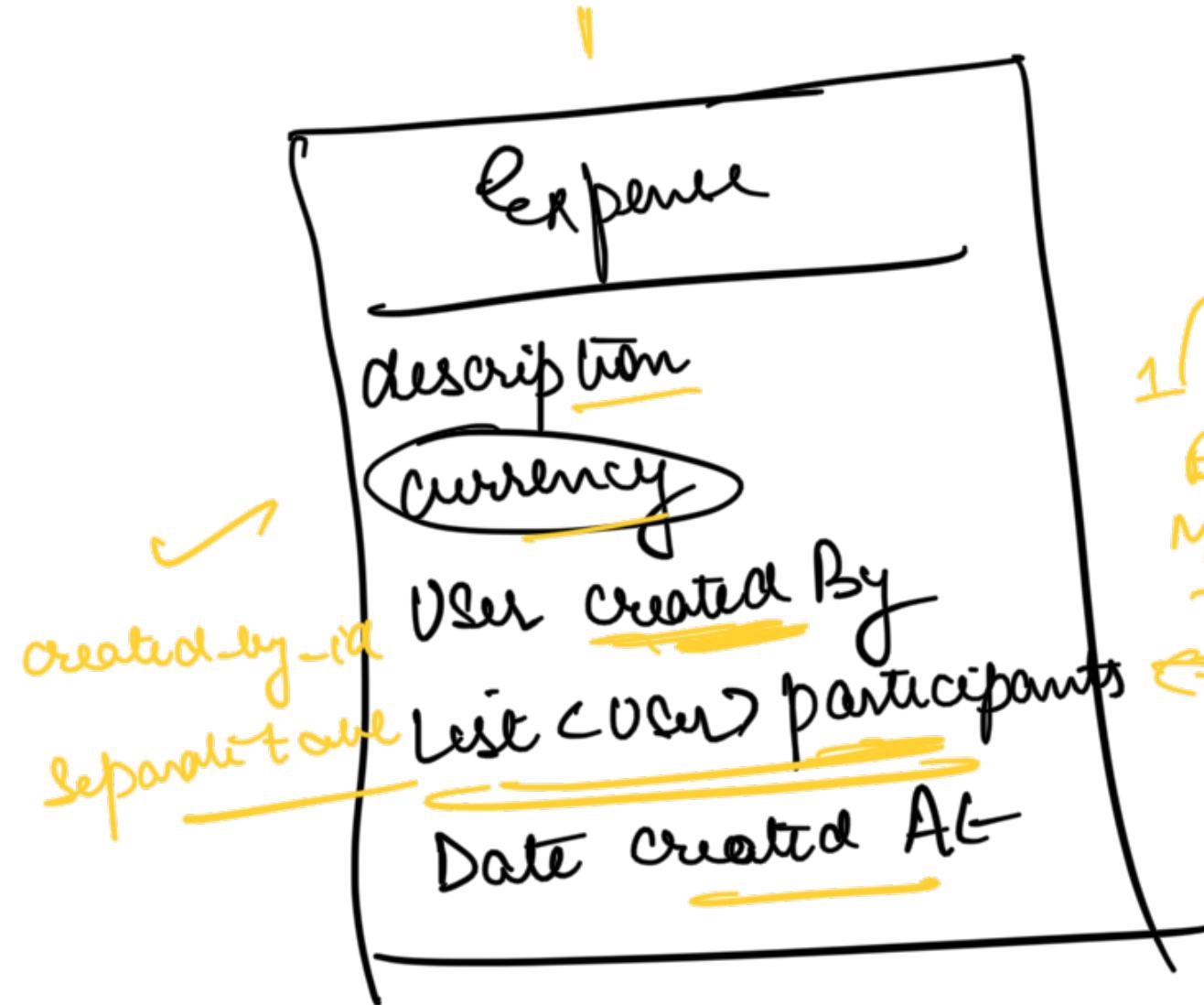
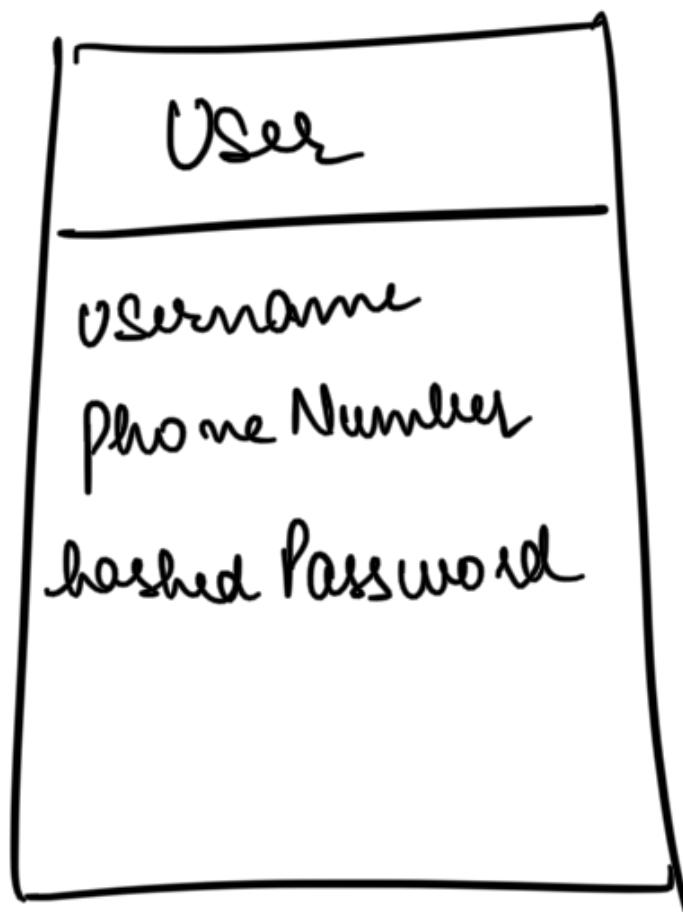
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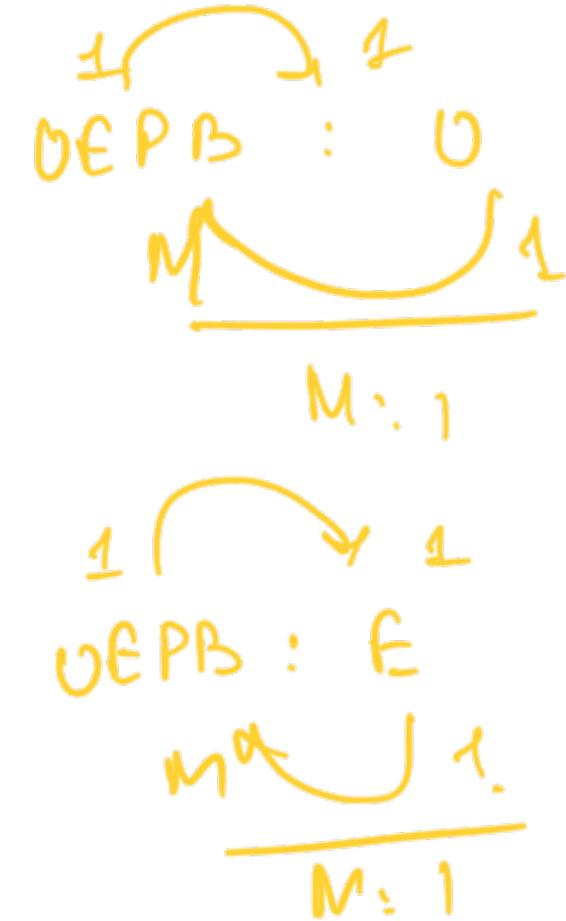
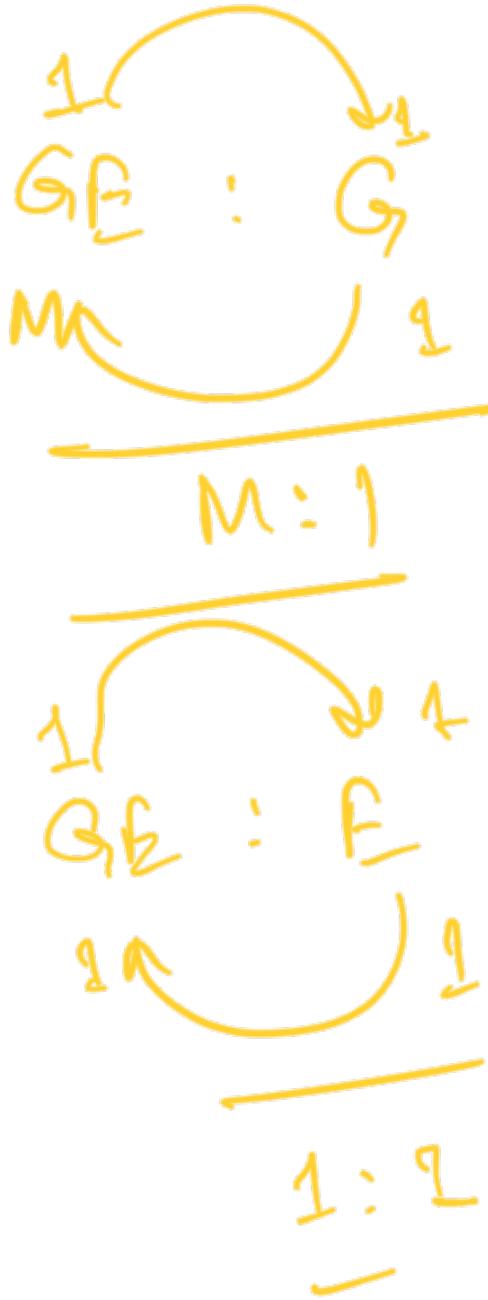


int .

(A, B)

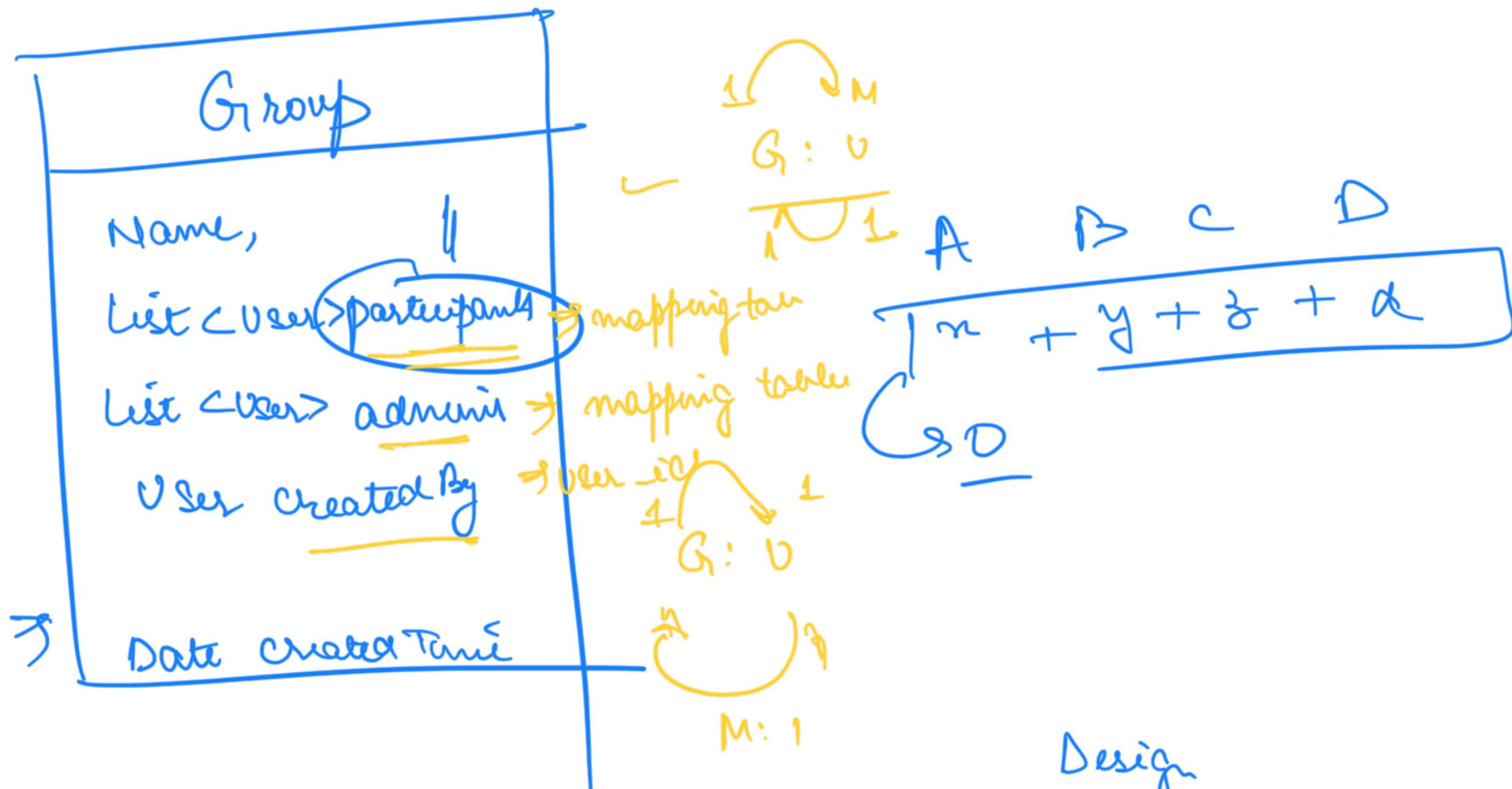
A paid 500

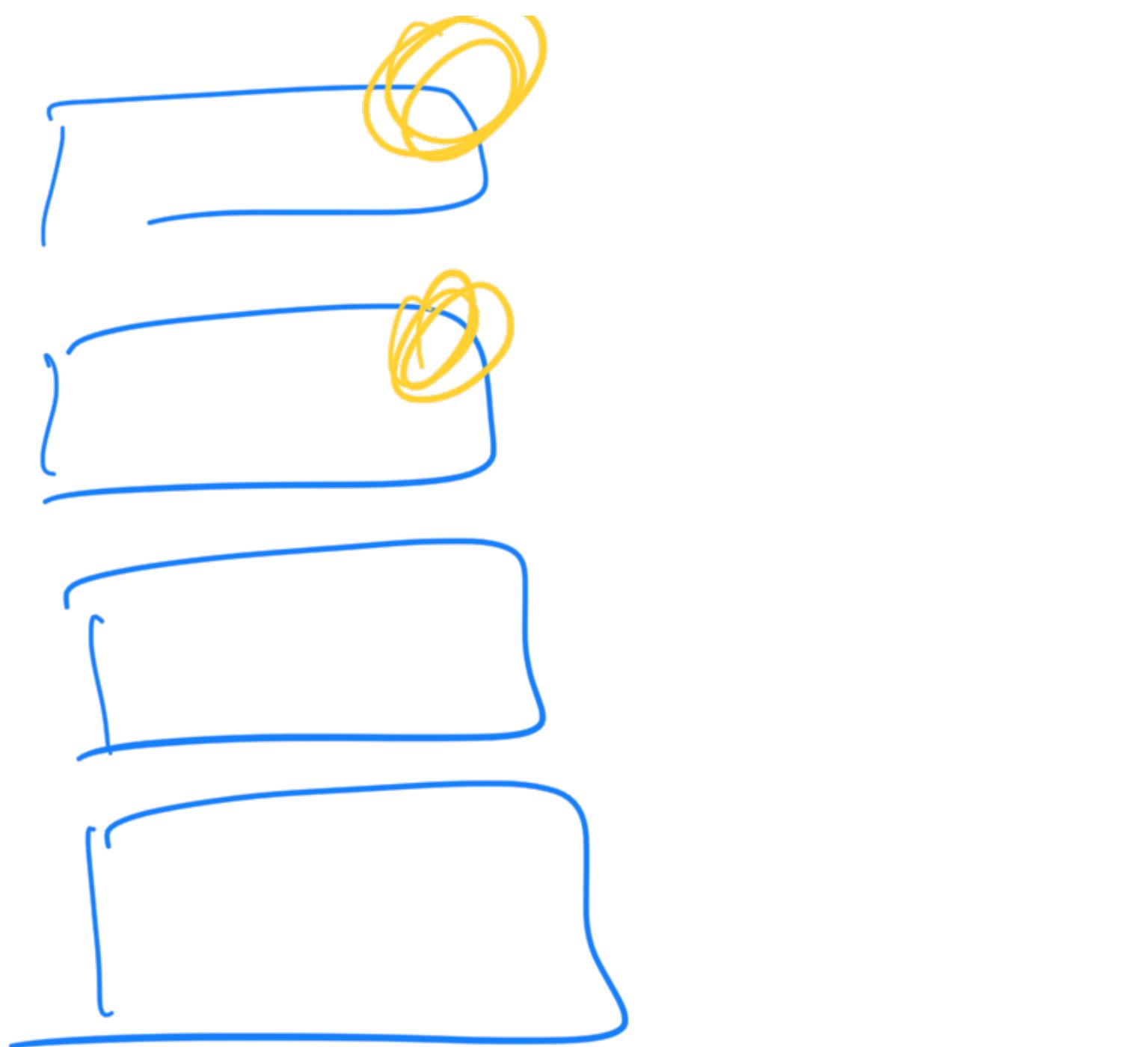




$A \rightarrow 200 \text{ HTP}$   
 $A \rightarrow 100 \text{ Bid}$







Users

id | Username | phone No | hashed Pass

expenses

id	desc	currency	created-by - id	created-at

groups

id	name	created-by - id	createdAt

expense - user - participant

expense-id	user-id

group - user - participant

group-id	user-id

group - user - address

group-id	user-id

A Seq<sup>M</sup>

① Implement models in Spring Boot

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② Implement following Req

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- ① User should be able to register
- ② User should be able to update their profile
- ③

① { ②

③ ④

Create a group

= ⑤ { ⑥

add an expense

Boxed Encoder

~~jpeg~~ → base64

password

→

de code

envelope

NAM AN

+  
↓

Norman



Signup("norman@cern.fi", 12345)



login(nawar@cen.fu, 12345)

