## I dea Whiteboard

## & App fratures 100

- Create a toup
- add toup name

  add trup members

  toip id (auto generated)
- Add numbers to top
- Add expense in a top add expense id (auto generated)
- Update expense in a trip

  add expense name

  and expense name

  only lender can update
- Delete expense in a trip
  - Only lender can delete

➤ Settle with a member in a top (12)

- an be added as another expense with expense name as settle"
- actual transfer of tokens to lender
- I settle amount & oved amount

De cettle with a member across trips (V2)

\* Types of expenses

OPP A B

(B) (C)

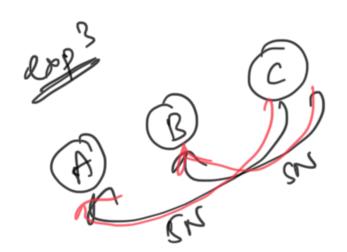
Currently

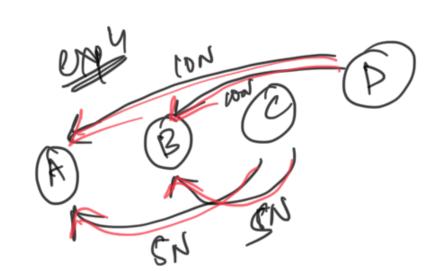
- Complex lending an be broken down into a batch of simple expense trans

eg: - exp4 can be

- A Ower C SN
- P OWR C SN







- B OWLE D ION
- The simplification logie can be done at frontend
- of to N conversion will also be done at frontend, "if needed
- Corrently, all simple expenses in a complex than will have diff. expense ids; the DS can be changed in 120 to support complex expense as one

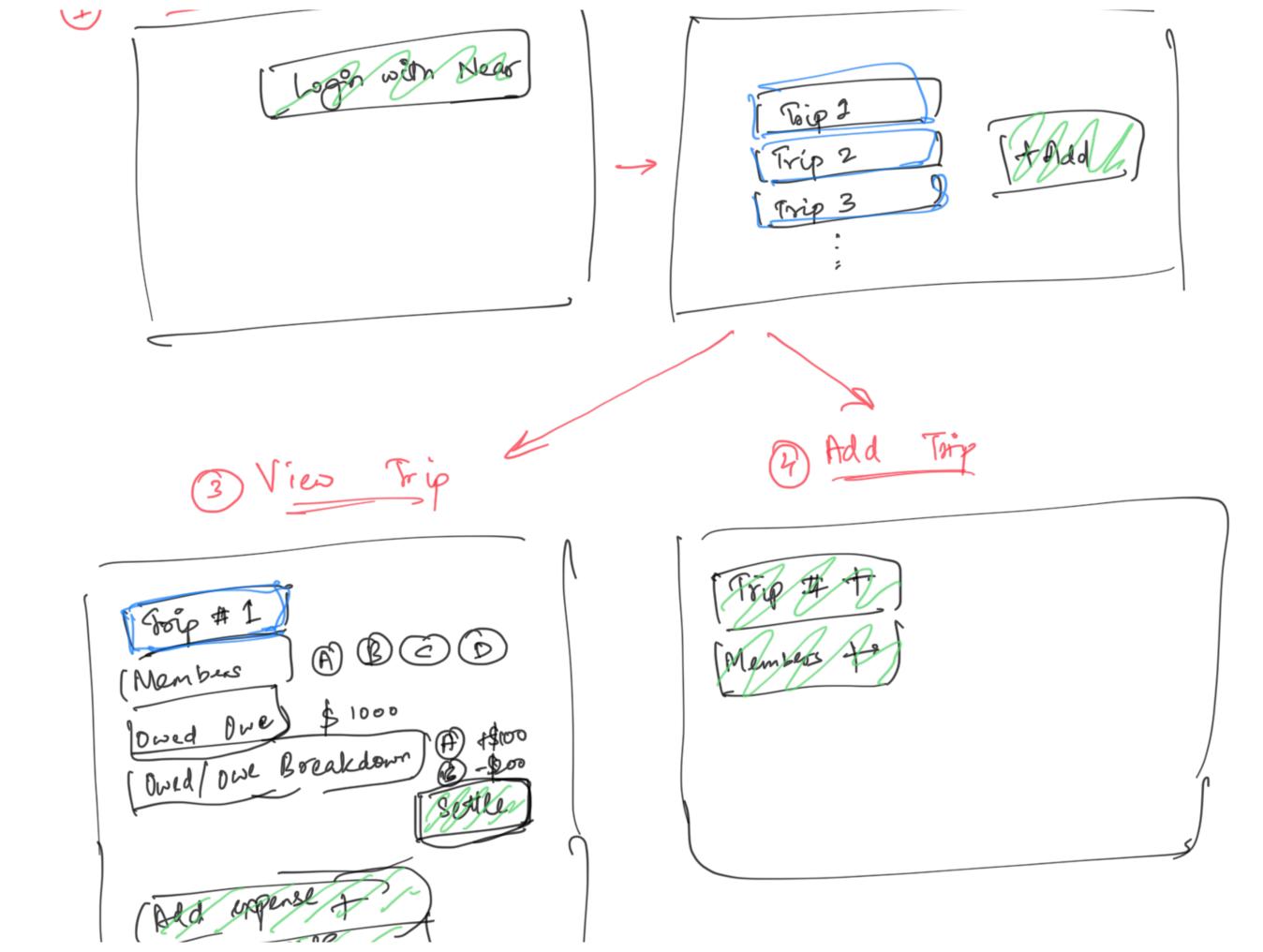
of Frontend Flow

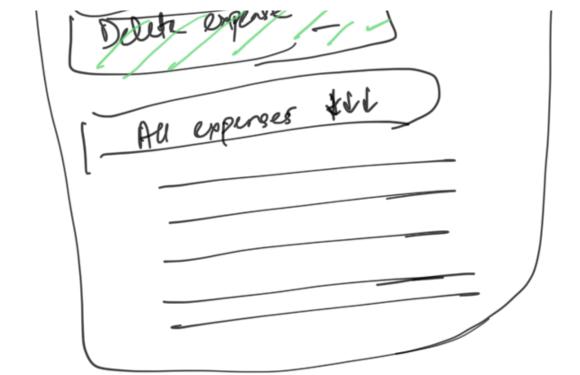


Ev 23

a Acc bogin

2 My Trips







\* Contract Struct

Struct Expense Franker of

=) frq-id-by-owner)

- (try-metadata-by trig-ia) > frip members > prip name - trip-expenses-by-tripled > twos added seg. with from -id I new trans can be added to triplid map with the transid > delete/update time in a tripid map with trimid

\* Methods on Contract



- New

- add-trip

- View\_ trip-netodata\_by-trip-id

- add\_brip-members

- View-toip-id-by-account is

- add\_trip-expense

- update\_trip\_expense

- delete\_trep\_expense

- View\_ trip-expense\_ids\_by-trip-id

- View - trip-expense-by-expense-id

= get\_ expense\_summary-by-trip\_id\_account\_id

= get\_t+al\_expense\_summary\_account\_id luzy

= settle\_expense\_by\_trip\_id\_account\_id 2v23

= Settle\_total\_expense\_account\_id {v2}

\* V2 radmap

- build frontend
- additional impl methods
- code optimization -> reduce contract osts wherever possible
  - integration testing
  - add timestamps
  - -> ralid account ids
    - ... more -..
- frontend ebility to register expenses in \$ or N (saved in N or blackchain)
- push to mainnet