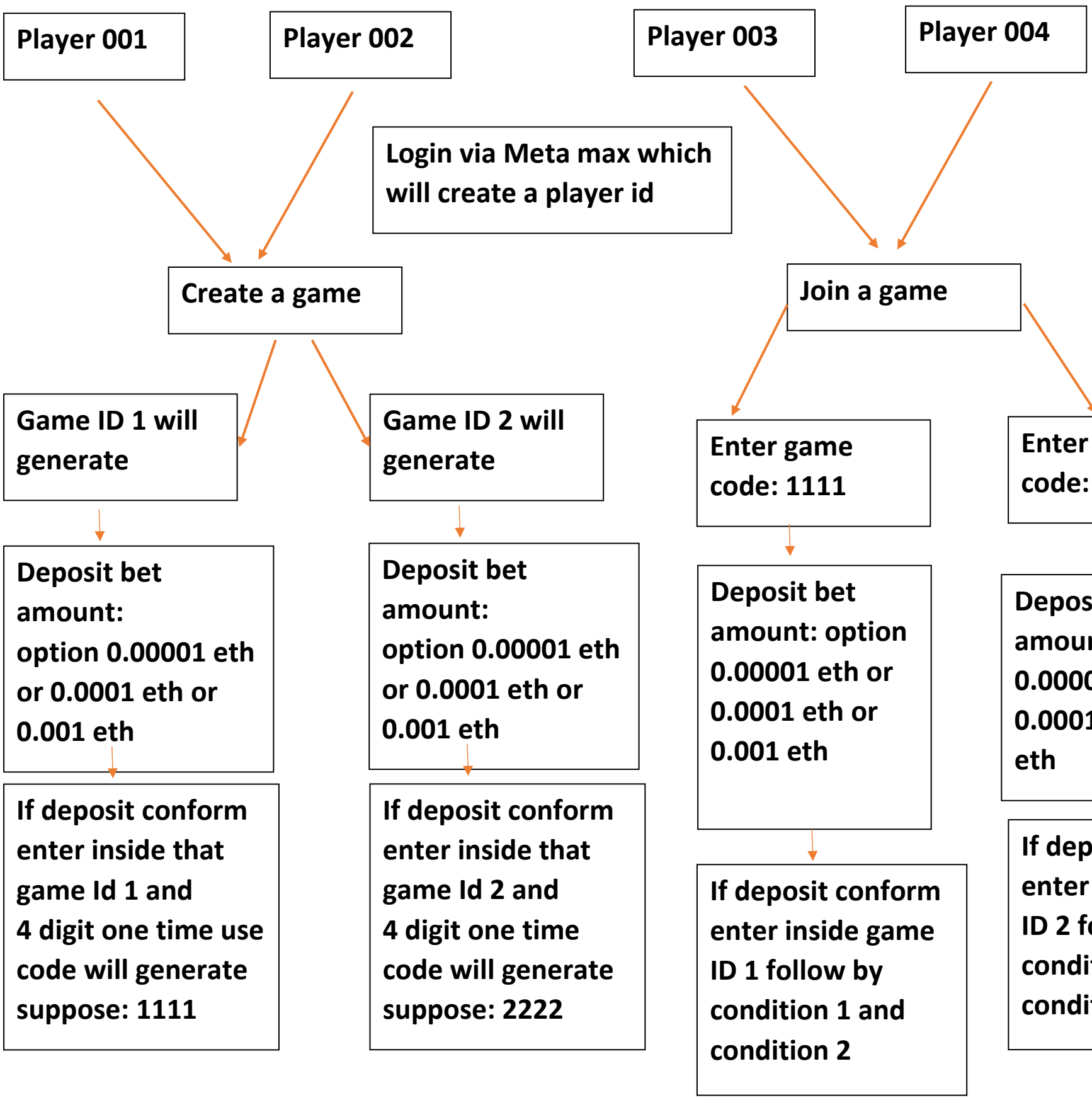
Work flow of hide and find on base block chain

Multiplayer game between two players.

Login part:



Condition1: deposit amount must match with game ID 1 deposit amount.

Suppose if player 001 deposit 0.001 eth then player 003 must deposit 0.001 eth. If player 002 deposit 0.0001 eth then player 004 must deposit 0.0001 eth. If deposit amount by both player match inside game d 1 and game id 2 then both player can start the game.

Condition 2: player 003 and player 004 must join the game under 5 minute, if not login code will expire and player 001 and player 002 will not get refund. Also they should deposit same amount in next 10 min.

Game design and login

Note: (NTBC) refers need transaction in base chain

Design

A box full of 9 square box

Player 001 and player 002 (the person who create game): need to hide a coin in any 9 box with in 15 sec (NTBC)

Player 003 and player 004 (the person who join game via invite code): need to find a coin in one click within 10 sec (NTBC)

Logic and RULE

After same amount deposit conform by block-chain in game ID1 and game ID 2, player 001 and player 002 will hit the button "ready", then timer will start for 15 sec for player 001 and player 002. They need to click on any square box to hide coin.

Suppose deposit conform by both player but only player hit ready button another did not hit at that time a notification should be send to another player – please hit the ready button your opponent is waiting.

After one player hide the coin then in that game ID 1 and game ID 2 15 second timer is start for opponent to find that coin.

Both hide and find coin should be conform by block chain means both need to conform transaction via wallet.

Game logic

Round 1

If player 001 hide coin and player 003 did not find coin in one click then player 001 win -1

If player 001 hide coin and player 003 find the coin in one click then player 003 win-1

If player 003 hide coin and player 001 did not find coin in one click then player 002 win -1

If player 003 hide coin and player 001 find the coin in one click then player 001 win-1

here both player will get chance to hide and find the coin

its means first the game creator player 001 and 002 will hide coin and game joiner player 003 and player 004 will find coin.

Decision

If player 001 win=2 (in both hide and find) then 2$ will withdrawal from escrow account in player 001 account

If player 003 win=2 (in both hide and find) then 2$ will withdrawal from escrow account in player 003 account

If both player win=1 then it will be d draw and another round will be played

Round 2 (only after draw)

If player 001 hide coin and player 003 did not find coin in one click then player 001 win -1

If player 001 hide coin and player 003 find the coin in one click then player 003 win-1

If player 003 hide coin and player 001 did not find coin in one click then player 003 win -1

If player 003 hide coin and player 001 find the coin in one click then player 001 win-1

Same logic

here both player will get chance to hide and find the coin

its means first the game creator player 001 and 002 will hide coin and game joiner player 003 and player 004 will find coin

Decision

If player 001 total win=3 then eth will withdrawal from escrow account in player 001 account

If player 003 total win=3 then eth will withdrawal from escrow account in player 002 account

If both player win=2 then draw and another round will be played

Condition for round 2,3 …. : suppose player 001 hide coin in 1×1 box then he will not allow again to hide in same place in round 2. In general if any player hide coin in any particular box and if match Is draw that player is not allow to again hide in same box in another round.

Continue loop like this unless one win the match.

Conclusion

both player get chance to hide and find
if player 001 and player 002 won first round they will get fund from escrow account

Suppose player 001 and 003 depo 0.0001 eth
in escrow smart contract 0.0002 eth will be transfer in winner account

so the logic is

if player 001 hide a coin if 1×1 box and player 003 click on 1×1 box then player 003 will win but if player 003 click anywhere but not 1×1 box then player 001 win

after that role reverse and now player 003 hide coin suppose in 1×3 and player 001 click on 1×3 then player 001 will win but if player 001 will click anywhere but not in 1×3 then player 003 win

backend will calculate both win point if draw another round and then winner will win the bet and take money where escrow account will release fund.
Note old round point will also calculate.

<u>Smart contract</u>

Chain: base network

Build an escrow account to hold fund, all fund deposit by player and opponent should deposit in escrow account.

Add withdrawal button

Folder name: HAF
file list
Index.html for frontend of login side: add file link game.html
Game.html for frontend of game part
Game.js backend for all game logic and connect with base Blockchain
Style.css to design our webpage
EscroGame.sol deploying contract of escrow account