



<https://github.com/TheJollyLaMa/BabelBet>

Justin LaManna, aka The Jolly LaMa



Babel Bet

An Exploration

of

Duolingo

and

Web3

**Babel Bet**

Babel Bet is a Decentralized Application (Dapp) leveraging Web3 and a smart contract in solidity to allow students of the Duolingo app to challenge each other to friendly wagers that make language training exciting by raising the stakes and involving friends in your journey!

Frontend

InitiateChallenge

Frontend form to start a challenge with a fellow Duolingo student

Sends to backend route onClick to fill email parameters and send offer via email

CounterOffer

Frontend form to offer different terms if the initial terms do not satisfy

Sends to backend to fill email parameters and send counteroffer via email

Accept

Frontend form to accept terms and stake funds

Sends to backend to initiate escrow and send confirmation emails

ChallengeView

Frontend view of the challenge’s vital statistics and status

Terms, Stakes, Escrow Earnings, and Challenge History

ChallengeBank

Historical view of challenges

Searchable by Id

Backend

InitiateChallenge

Sends email to your chosen language buddy

CounterOffer

Sends email back to the initiator to suggest different terms

AcceptChallenge

Grab Eth from both parties and place in Escrow with Web3

Send email to both parties to confirm agreement with escrow details

Call WatchChallenge() in solidity

WatchChallenge

Check Students progress everyday

Fetch both students duo info

If (studentA.Streak && studentB.Streak && streakGoalNotYetMet )

Wager is still active

Else: ExecutePayout()

ExecutePayout

Payout goes to winner’s Eth account via web3 call to release escrow

Emails are sent confirming challenge completion and reporting results

Challenge is forever stored on chain

Payouts can be dynamic or all or nothing (80% completion = 20% loss in stake)

SearchById

Look up past challenges by ID to fetch the historical record from the chain

Solidity

Escrow

Deposit to Escrow – two or more accounts deposit funds in contract account

Each deposit entry has an ID, depositing addresses, and depositing terms

Funds can be held frozen or released to earn yield

Earn

Escrow account sweeps funds over to whatever dapp has the best scheme

Different schemes could be selected according to risk appetite.

Oooorrrr …

Possible replay on Angel Tokens – each Challenge being an 1155. The simplest form being between two players but could include groups and handle group payouts. Switch out the angeltoken product for a set of terms to the challenge, the coefficient controls the payout amounts, and cost is the amount the players wish to stake.

So there is a challenge (contract1 (alms)), a ChallengeToken (contract2 AngelToken(genesis and buy)) and an execution contract (contract3(AT\_X)). Execution contract is the watcher.