Babel Bet

An Exploration
of
Duolingo
and
Web3

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https://github.com/TheJollyLaMa/BabelBet

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

Shameless AngelToken Plug
Decorated About Page with links to the vitals
Shows Connected Account

InitiateChallenge
- Frontend form to start a challenge with a fellow Duolingo student
- Collects:
  - Email & Password, Email to Challenge, Eth Account,
  - Duolingo Username & Password, Challenge Proposal
- Sends to backend route 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 with terms to a challenge

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

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.

Notes:

Plenty of other challenges to dream up –maybe even a custom challenge option
Portions of winnings go to charity
Losers feed Losers – if you lose, all your money goes to your chosen charity.
Tip the scales – payout toppers given by the babelbet contract to incentivize certain activites

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 on chain watcher.