

CharityVote

By AnyGrpName

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Overview

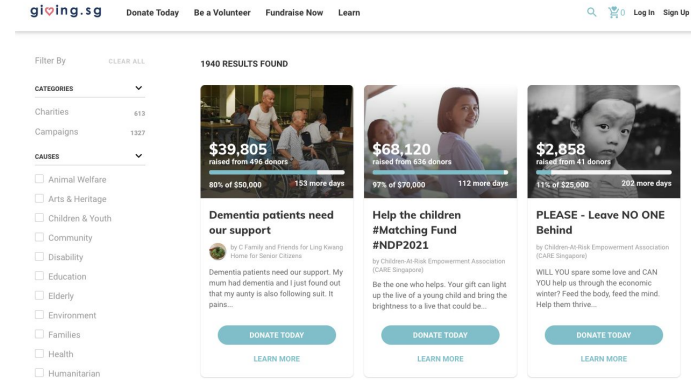
- Background & Problem Statement
- Overview of Charity.sol
- Demo of Charity.sol
- Design Considerations
- Design Challenges
- Possible Extension
- Wrap Up

Background & Problem Statement

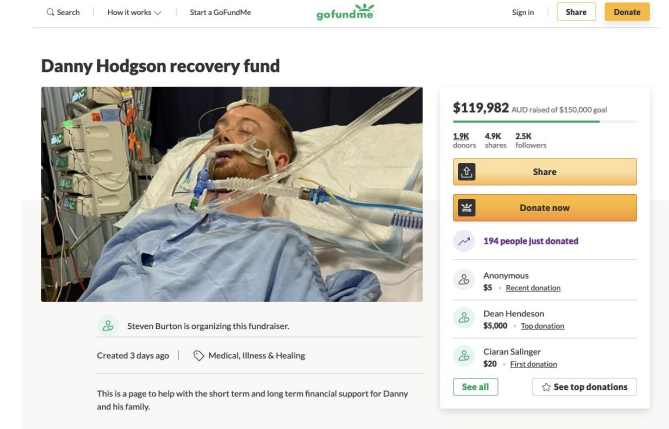
Users need a platform which allows them to place donations and vote on how their funds will be distributed

Issues with competitor's platforms

- Lack of accountability for how funds are being disbursed
- Users are unable to place votes on causes which they are interested on backing



Giving.sg



Gofundme.com

Tech Stack



Development Environment
Ethereum Virtual Machine(EVM)



Middleware
Interact with Ethereum Node



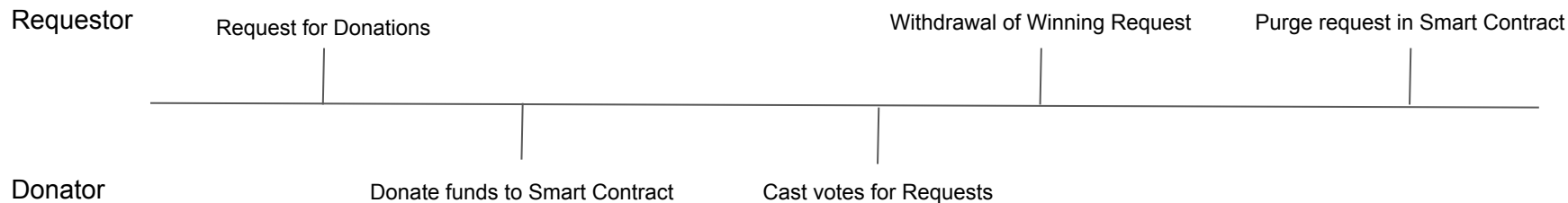
Front End Framework
Visualisation

Introducing Charity.sol

- Decentralised Charity Organization
- Request for funds
- Donate to smart contract
- Vote for disbursement of funds



Flow of Events



Demo (Sol Smart Contract)

The image shows a web interface for a Sol Smart Contract demo. It features a central display area with a large title, a status bar with time and withdrawal information, a donation form, a request form, and a status message at the bottom. Red boxes and arrows highlight specific elements and their relationships.

Voting Round/Withdrawal Details (points to the status bar)

Total Donated Amount: 0.02 Ether

Total amount donated/available for withdrawal (points to the total amount)

Time left till end of this voting round: 36 minutes ago

Winning address can withdraw between: Sat Sep 11 2021 11:42:53 GMT+0800 and Sat Sep 11 2021 11:44:53 GMT+0800

Donate Field (points to the donate button)

Donate 1.0 Ether

Request Field (points to the request form)

Submit a new request for 0x25C8A92F9F076447261f6eAb62bB2Fa059e4B8Bb

Request Amount 1 Ether

Reason & Proof asd

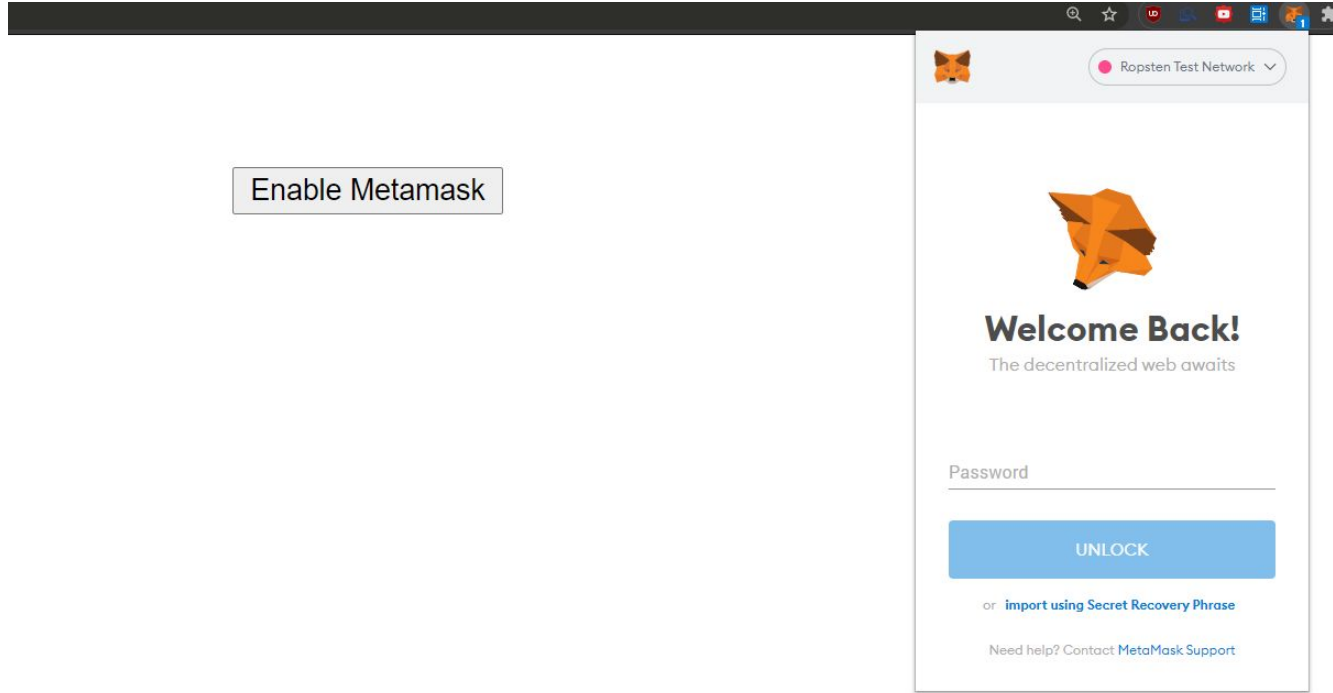
Upload request

Address: 0xdFEAaCE9Ee7D649700F554E20c5F6680082D5431 Requesting 1.0 Ether for the purpose of test has 0 vote(s)

Frontend built by Lucas Foo

Vote Options (points to the status message)

Visit our frontend site and login with metamask



URLs: <https://sharp-lovelace-b79e2b.netlify.app/>

Or <http://ee4032.lucasfoosq.com/>

As a donor

Donate

1

Ether

Address: 0xdFEaACE9Ee7D649700F554E20c5F6680082D5431 Requesting 1.0 Ether for the purpose of

Dev need pay bills has 0 vote(s)

Vote

This is the currently winning request!

This is your request!

You voted for this!

Address: 0xdFEaACE9Ee7D649700F554E20c5F6680082D5431 Requesting 1.0 Ether for the purpose of

Dev need pay bills has 1 vote(s)

As a requester

1) Post

2) Approve

Request Amount Ether

Reason & Proof

3) Refresh the page and verify

This is your request!

Address: 0xdFEAAcE9Ee7D649700F554E20c5F6680082D5431 Requesting 1.0 Ether for the purpose of
Dev need pay bills has 0 vote(s)

https://sharp-lovelace-b79e2b.netlify.app

CONTRACT INTERACTION

0

DETAILS DATA

EDIT

sharp-lovelace-b79e2b.netlify.app 0.000184 0.000184 ETH

suggested gas fee ⓘ

Likely in < 30 seconds

Max fee: 0.000184 ETH

Total 0.000184 0.000184 ETH

Amount + gas fee Max amount: 0.000184 ETH

Reject

Confirm

As a requester with most votes

1) If you are the most voted

This is the currently winning request!

~~This is your request!~~

You voted for this!

Address: 0xdFEAAcE9Ee7D649700F554E20c5F6680082D5431 Requesting 1.0 Ether for the purpose of
Dev need pay bills has 1 vote(s)

Time left till end of this voting round: in a few seconds

Winning address can withdraw between: Sat Sep 11 2021 22:32:47 GMT+0800 and Sat Sep 11 2021
22:34:47 GMT+0800

2) Within the withdrawal period

Congrats you were the winning request last round!

Withdraw

3) Able to withdraw requested amt

As another requestor

1) If you are the most voted

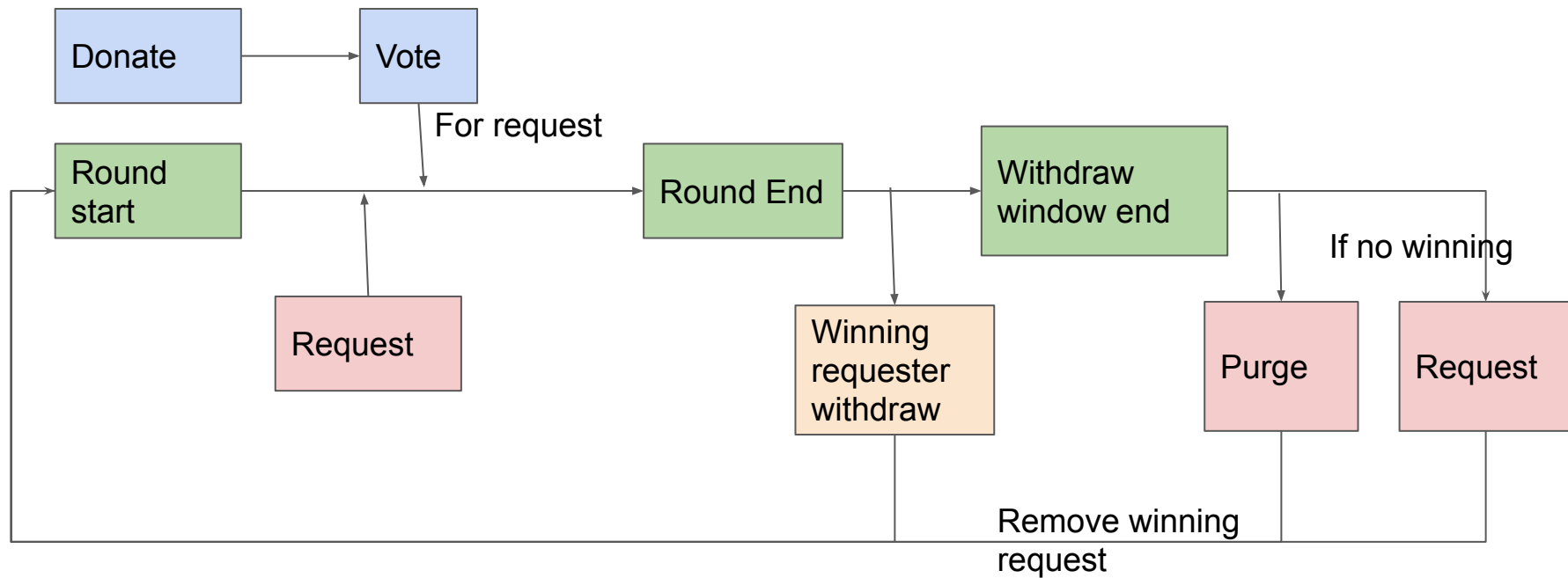
Winning address can withdraw between: Sat Sep 11 2021 22:32:47 GMT+0800 and Sat Sep 11 2021 22:34:47 GMT+0800

The winning request can now be purged!

[Click here to purge it](#)

2) Can remove most voted request and start new voting round

In summary



Design Considerations

Selecting a charity request

Equal representation for donators

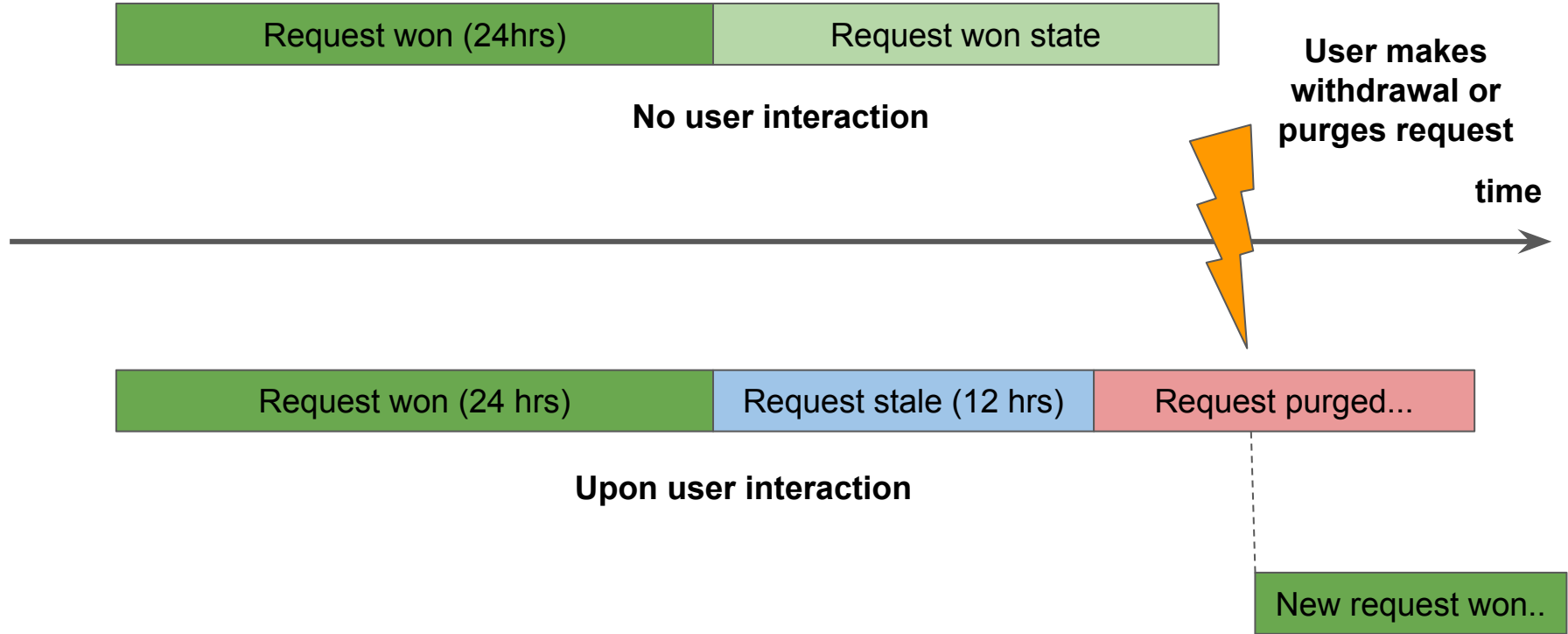
Time frame for voting

Test driven development

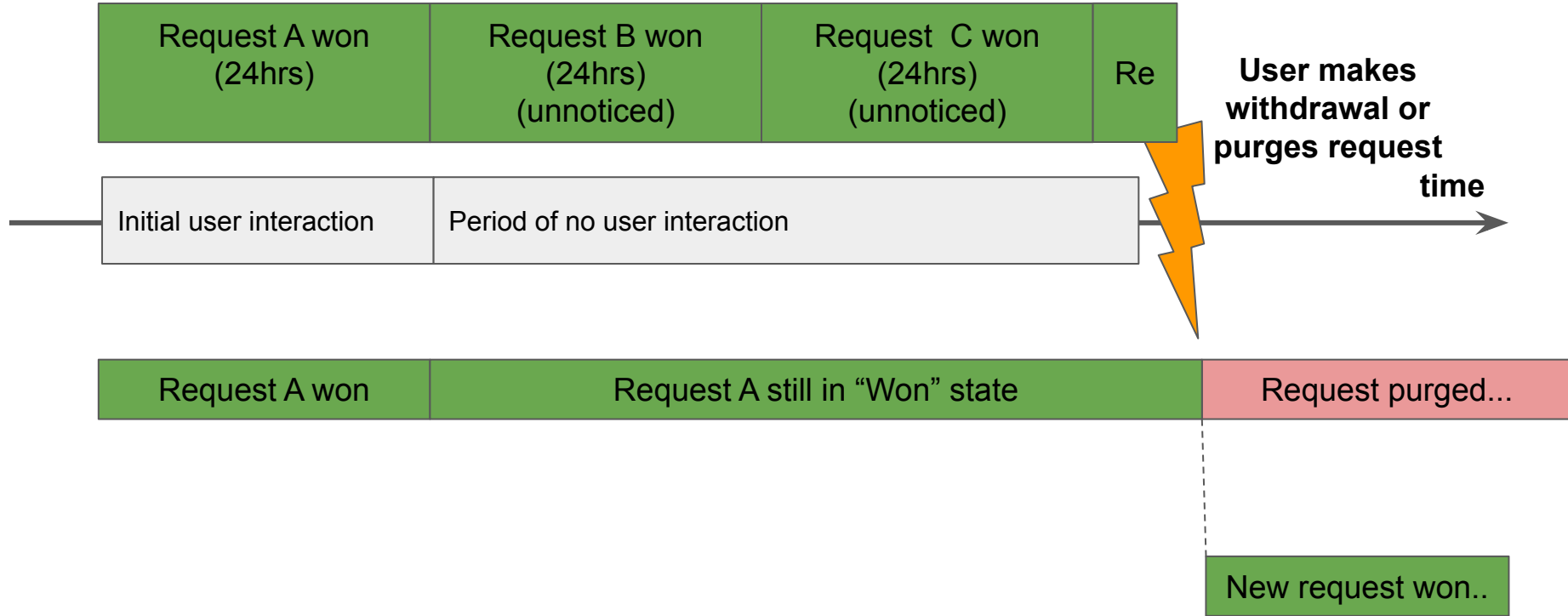
Easy to use interface



Design Challenge: Blockchain can't update automatically



Our solution ensures every request gets attention



Inherent incentive for top requesters to purge

Total Donated Amount: 1.12 Ether

Time left till end of this voting round: in a day

Winning address can withdraw between: Mon Sep 13 2021 00:44:55 GMT+0800 and Mon Sep 13 2021 12:44:55 GMT+0800

Donate Ether

Submit a new request for 0x5928Dd81Dd883Bd809f15517F9eaEA8B66EF062F

Request Amount Ether

Reason & Proof

Address: 0xdFEaACE9Ee7D649700F554E20c5F6680082D5431 Requesting 0.4 Ether for the purpose of GIMME has 0 vote(s)

This is your request!

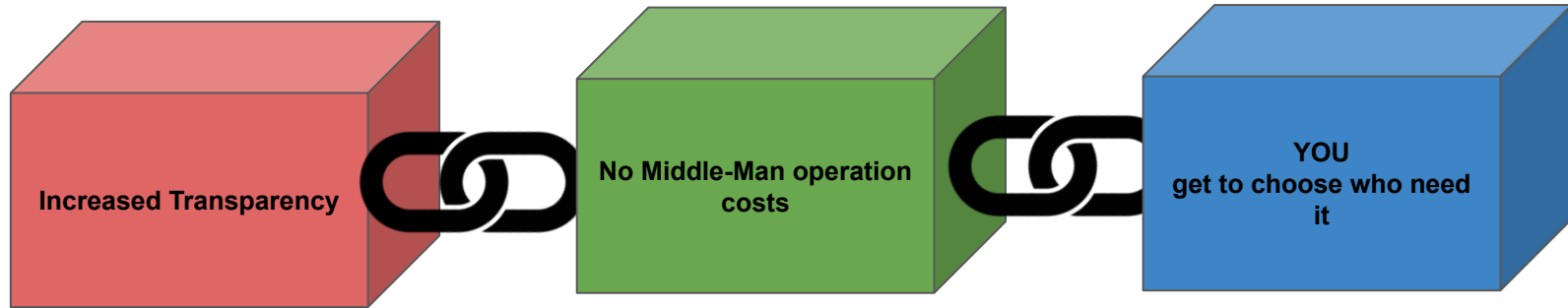
Address: 0x5928Dd81Dd883Bd809f15517F9eaEA8B66EF062F Requesting 0.5 Ether for the purpose of Fundraising for animal shelter has 0 vote(s)

Frontend built by Lucas Foo

If I purge, my request will
win! It's worth it!



Try Charity Vote today!



<http://ee4032.lucasfoosq.com/>

Thank You!