

# Tweet Chain

Public Messaging using Blockchain

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# Problems with Centralised Twitter

- From 2011 Twitter started exerting control over their platform

Asked the External Developers to stop making twitter apps which mimi the mainstream features of Twitter.

- In 2013 Twitter imposed many restrictions on the use of its data.

Thus the promised open platform became a dream for developers.

# Decentralization with Blockchain

Blockchain eliminates the presence of any central authority or company from the network and thus no one can censor what is being published.

Only the publisher can remove the published content

To not expose the user's social graph to the world, following other accounts is not supported on purpose

Enabling donations in ethereum for all user accounts acts as an incentive

# Basic Features ..

## Account Creation

- You need an ethereum Account
- Register a name with the account
- `TweetRegistry.register.sendTransaction("test", MyTweetAccount.address, {from: eth.coinbase, gas: 200000})`

## Browsing Accounts

- Accounts can be searched by name  
`TweetRegistry.getAddressOfName("test")`
- Using Account Number  
`TweetRegistry.getNameOfAddress("a/c no.")`

## Browse Tweets

Create a variable `TweetAccount` to point to a particular account

For latest Tweets by an account:

```
TweetAccount.getLatestTweet()
```

For a particular tweet by an account:

```
TweetAccount.getTweet('number')
```

The resulting JSON array contains: [tweet string, timestamp of tweet, total number of tweets]

## Post Tweets

For posting we basically make an ethereum transaction

```
MyTweetAccount.tweet.sendTransaction("hello world", {from:  
eth.coinbase, gas: 200000})
```

`MyTweetAccount` points to the account created by the user

## Collect Donations

Use function `adminRetrieveDonations()` to collect all the received donations

## Resources

<https://www.stuff.co.nz/technology/digital-living/101349742/Building-a-blockchain-version-of-Twitter>

<https://ethereum.github.io/solidity/>

<https://solidity.readthedocs.io/en/latest/>

<https://github.com/yep/eth-tweet>