Tracing origin of Social Media Post

PSID: **INTL-DA-08**

TEAM LEADER: TRIJUN.M
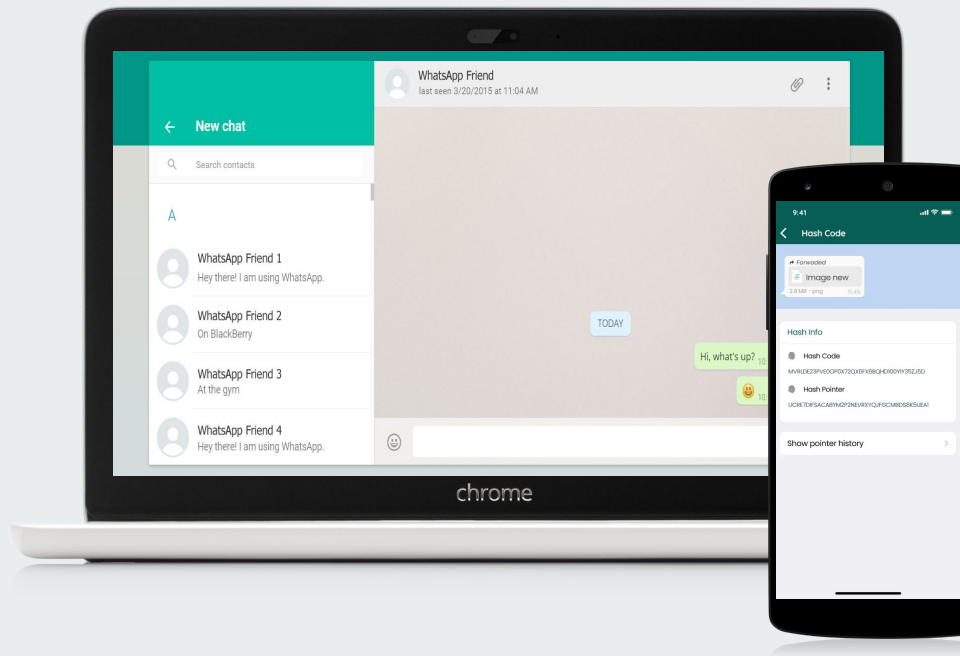
Idea Introduction

Idea Outcome

Tech Stack

- Angular
- Ethereum
- MongoDb

Resources Used

- MetaMask
- IPFS

Our objective is to create an accountability to every user who shares a forwarded message through Blockchain Technology so as to avoid sending abusive messages which creates easy identification of the origin of the media post.

Any third party API/Services?
No

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Approach Towards Idea

GENSIS BLOCK

Data:	"message"
Previous Block:	00000000
Hash:	76930032

SECOND BLOCK

Data:	"message"
Previous Block:	76930032
Hash:	96500327

THIRD BLOCK

Data:	"message"
Previous Block:	96500327
Hash:	547382210

With the power of blockchain, every message that is forwarded would be storing the sender's hash id which can be used to give the users a sense of accountability to avoid forwarding fake or abusive messages

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Solution to the problem Statement

Forwarded messages don't have accountability which leads to the problem of forwarding it too many times. So to stop this from happening we have created a way of identifying the senders through hash code which can be found by selecting the message and clicking on the hash info option on the top right corner.This displays the hash code as well as the hash pointer of that message.

Hash code refers to the unique identification code for the selected message and Hash pointer refers to the hash code of the user that forwarded the message.By this feature, every user knows that he will be accountable whenever they forward a message. This stop and helps us to identify every person to which it has been sent as well as easy identification of the source.

Features

- At present, to find the person who sent an abusive content in the first place will take a lot of time by which the number of times it would have been forwarded would be sky high.

- This problem is what we have solved by implementing blockchain technology through which an hashcode is generated for each and every message that is created in the app.

- Therefore anytime a message is forwarded, it creates a chain of accountability through blockchain technology. This helps us to identify every person to which it has been sent as well as the sender using hash pointer.

Future scope

- We would also add the feature to directly stop the person from sending by reporting the hash code of the origin post.

- If the number of reports increase a certain limit will automatically lead to identifying the data on the block and deleting it from the entire block chain which will stop further forwarding of the abusive message

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Development Pipeline

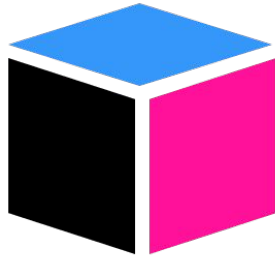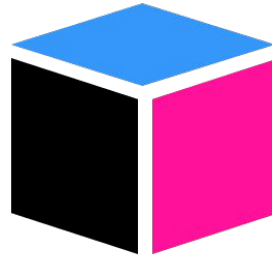| Proposed Development Plan in pointers	Documents To be prepared for installation and evaluation	Repository Link or Any references link of folder	Proposed UI and functional flow in pointers
1.Implement blockchain technology 2.Create a method to generate hash codes for every message 3. Store the hash info in the blockchain every time a message is forwarded	1. Angular CLI installation 2. Remix Ehterium installation 3. MongoDB installation	1. Figma prototype link https://www.figma.com/file/skuUa5Wp9mibQ2wuV4uCi0/Untitled?node-id=0%3A1	1.Implement blockchain technology 2.Create a method to generate hash codes for every message 3. Store the hash info in the blockchain every time a message is forwarded

Prototype Design
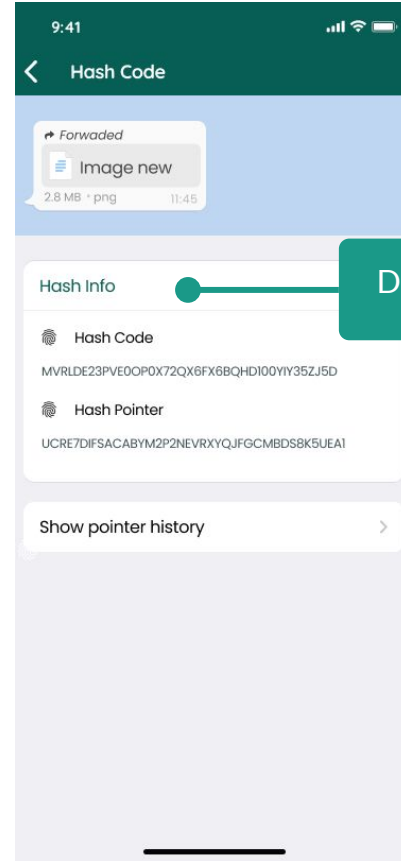
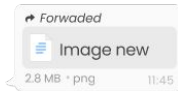# SYSTEM ARCHITECTURE

GENISIS BLOCK
Creation of original message

Data :

> ⤷ Forwaded
> 📄 Image new
> 2.8 MB · png   11:45

Hash Code   UCRE7DIFSACABYM2P2NEVRXYQJFGCMBDS8K5UEA1

Hash Pointer   0000000000000000000000000000000000000000

SECOND BLOCK
After forwarding the original message

Data :

> ⤷ Forwaded
> 📄 Image new
> 2.8 MB · png   11:45
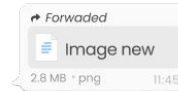
Hash Code   MVRLDE23PVE0OP0X72QX6FX6BQHD100YIY35ZJ5D

Hash Pointer   UCRE7DIFSACABYM2P2NEVRXYQJFGCMBDS8K5UEA1

In the previous screens, we can see that the hash id and the pointer of the selected message.

By using this information, we can also identify the previous sender which will eventually lead to the genesis block i.e the original sender

Prototype Model

https://www.figma.com/proto/skuUa5Wp9mibQ2wuV4uCi0/Untitled?node-id=6%3A1751&scaling=scale-down&page-id=0%3A1&starting-point-node-id=16%3A149&show-proto-sidebar=1