Team dietCoke



XSS:



Concept/ Idea:

Main goal: Increase web surfing security by creating a blockchain of secure and trusted websites

Why do we use blockchain?

- a) SECURITY:
 - Increased Security from private blockchain
 - Prevent users to be redirected to malicious websites from their current webpage
- b) COST/ REMOVAL OF THIRD PARTY:
 - Businesses and their legality are authenticated by the government, no longer requiring a third party security certifications

Design

- Government registration
- IOTA registration
- Adding a new website
- Website redirects

Government Registration

Business



register their site



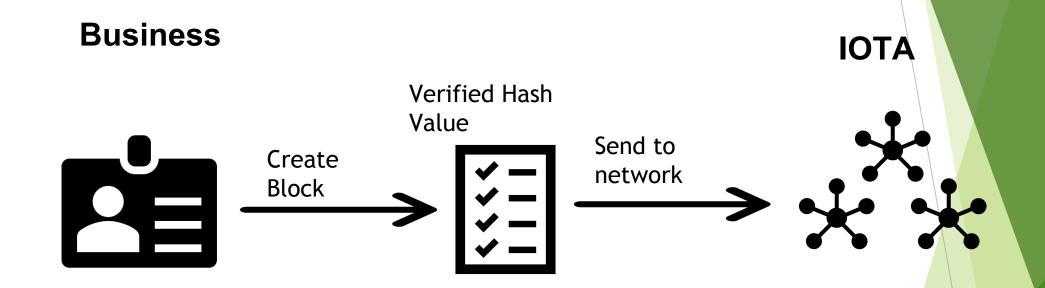
receive Business ID

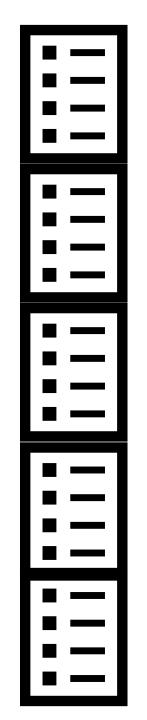
Government



No 3rd party involvement

IOTA REGISTRATION





Website 1

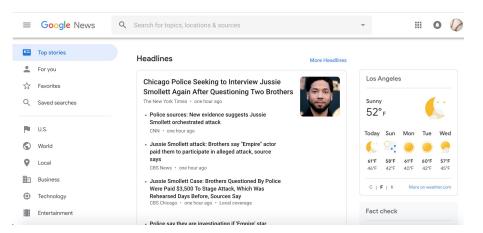
Website 2

Website 3

Users can access all these websites, which are secured by the blockchain.

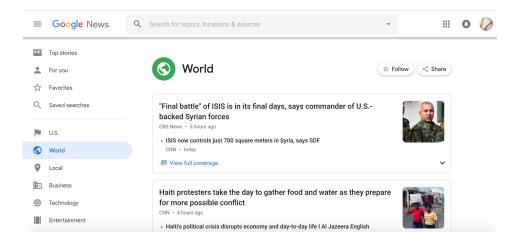
Website 4

Website 5



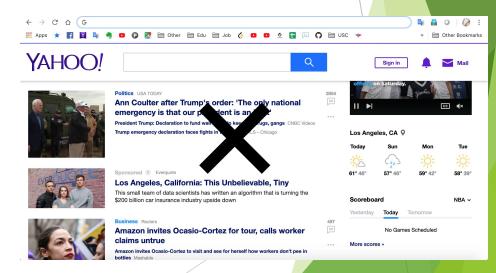
Address is included







Address is NOT included



Blockchain code: networkSecuritySend.js

```
let mamState = Mam.init( externalProvider: 'https://nodes.devnet.thetangle.org:443')
const mamType = 'restricted'
const mamSecret = 'DONTSHARETHIS'
mamState = Mam.changeMode(mamState, mamType, mamSecret)
 const publish = async data => {
    const trytes = asciiToTrytes(data)
    const message = Mam. create(mamState, trytes)
    mamState = message.state
    await Mam. attach (message. payload, message. address, 3, 9)
publish( data: " {\n" +
```

Blockchain code: networkSecurityFetch.js

```
const Mam = require('@iota/mam')
const { trytesToAscii } = require('@iota/converter')
 ^{\prime}/ Get the root from the send output
let root =
   WM JETBLOXTZIKLEBTBQBVIMGCSWUKDIF JB9SMZMMLYVURZDMLA IIMSNMGMPUEDWRTVDWRB TT9L ISFRW
const mamType = 'restricted'
const mamSecret = 'DONTSHARETHIS'
let mamState = Mam.init( externalProvider: 'https://nodes.devnet.iota.org:443')
 // Convert data from trytes to Ascii
const logData = data => console.log(trytesToAscii(data))
const execute = async () => {
  const resp = await Mam. fetch(root, mamType, mamSecret, logData)
```

What's next?

We plan to upload the certification number and domain name into the public chain so that anyone could see and verify that the website is safe.