



**СИСТЕМА РЕЄСТРАЦІЇ ТА
ПУБЛІКАЦІЇ
ІНЦИДЕНТІВ
КІБЕРБЕЗПЕКИ З
ВИКОРИСТАННЯМ
ТЕХНОЛОГІ
Ї БЛОКЧЕЙН**

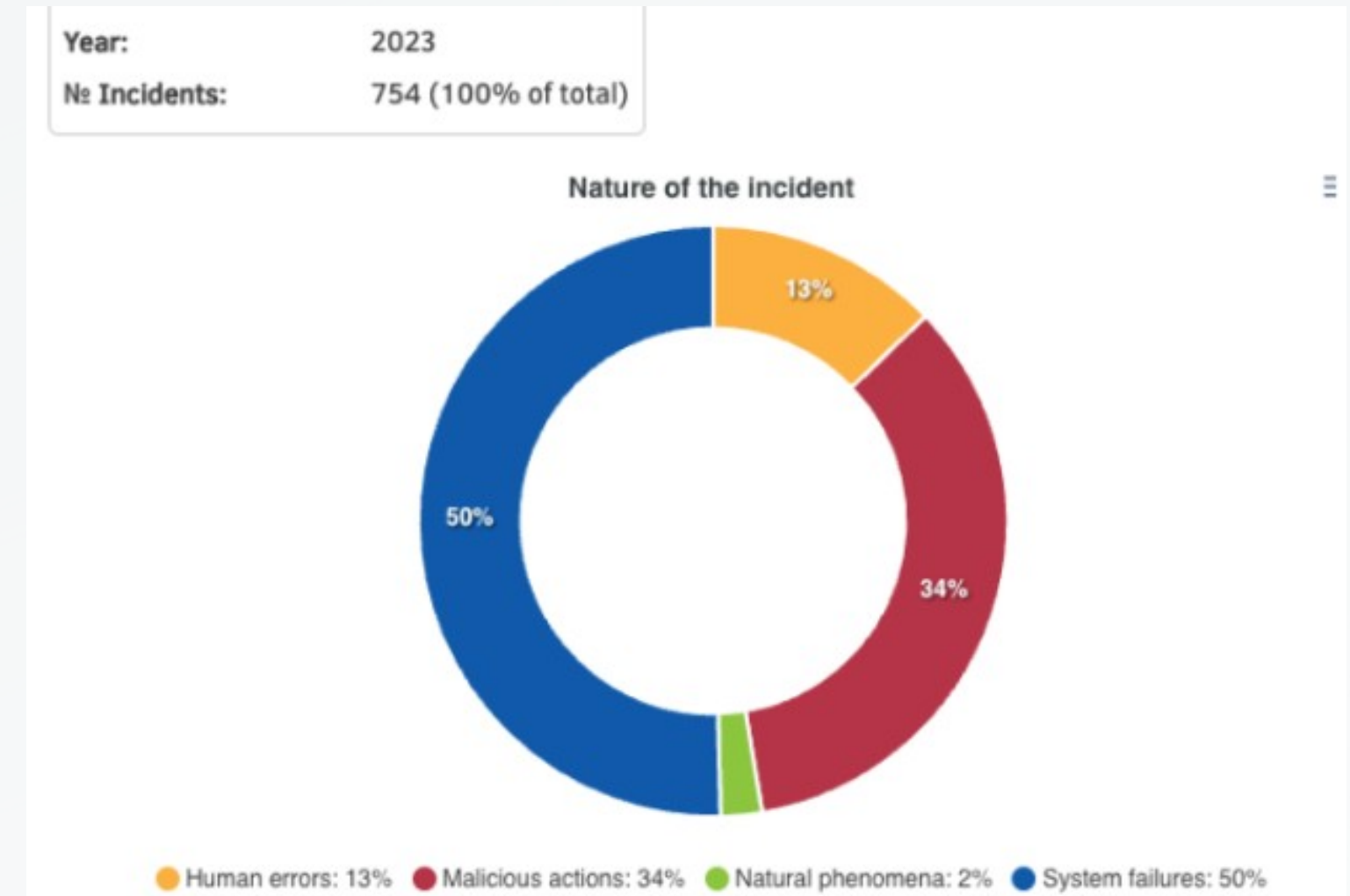
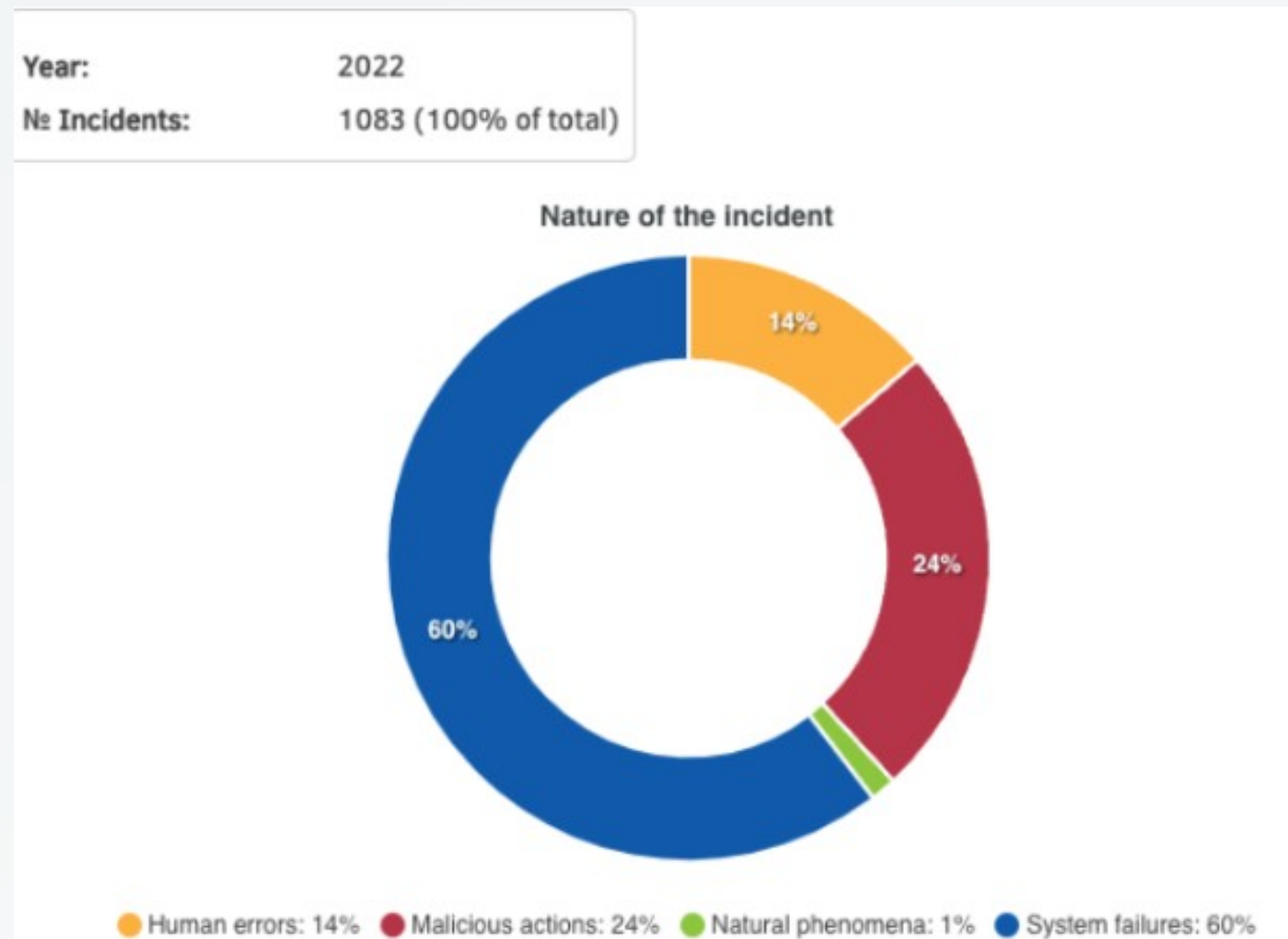
виконав : Волков Іван Олексійович
науковий керівник: Гороховський Кирило Семенович

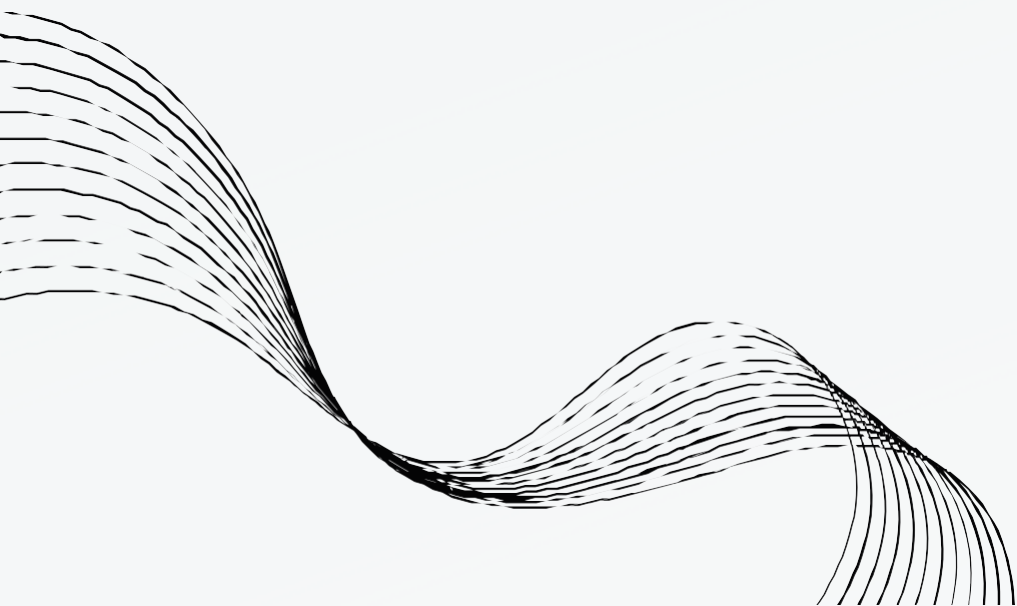
Актуальність теми



2022

2023





Share

Revoke

Disconnect

Report incident to blockchain

Address: 0xD4d775d3C45a7c0628F5422DC6a87ebcB6aF0bC6

Choose Report File

File: No image selected

Upload File

Fetch reports by address :

0x5fdEf9476FDe30cDa6a84f9207D475748Ddf

ДД.ММ.РРРР

From - To

ДД.ММ.РРРР

Get Data

Incident Report Form.pdf

Incident Report Form Filled.pdf

Incident Report Form.pdf

cv.pdf

Feedback

Feedback

Feedback

Feedback

Please provide more info about the amount of people affected by incident and estimated time to solve the issue.

Now it's good. Approved!

INCIDENT REPORT FORM

That's not supposed to be here ...

Cancel

Submit

Cancel

Submit

Cancel

Submit

INCIDENT REPORT FORM

INCIDENT REPORT FORM

PERSON'S INVOLVED

Name: _____

Address: _____

Phone: _____

Email: _____

Other: _____

Signature: _____

Date: _____

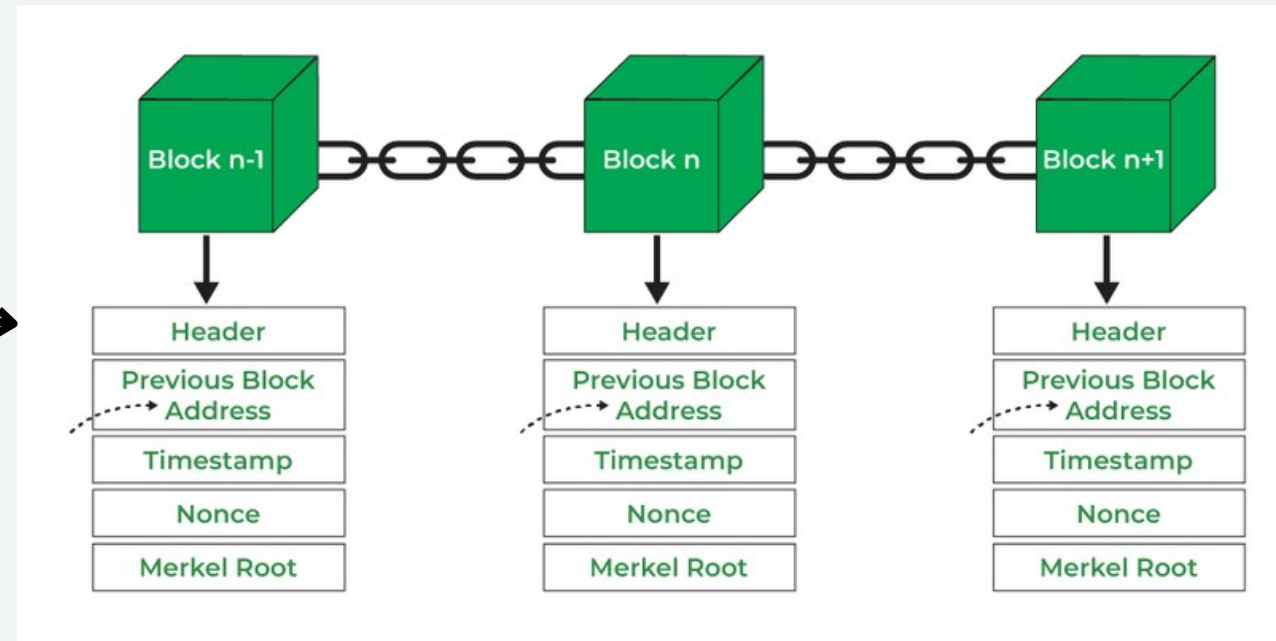
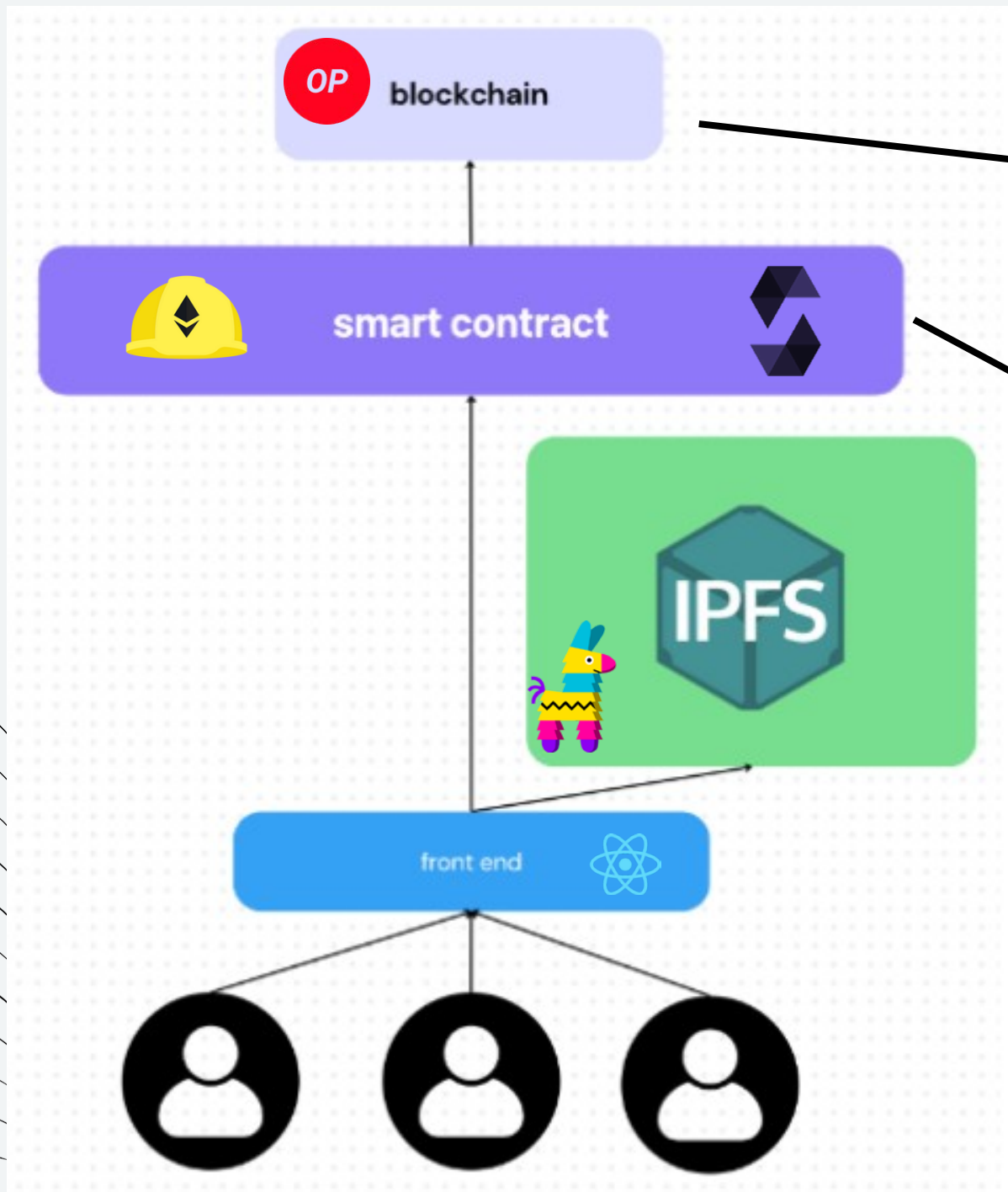
Page 1 of 2

TRADIFY



VOLKOV IVAN

TRADIFY



приклад структури зберігання звітів

Adress	File-1	File-2
0x5fdEf9476FDe30cDa6a84f9207D475748Ddfa7F9	https://white-genuine-moose-392.mypinata.cloud/ipfs/QmVCYRDjsa7CG42Rjuh4Zkgxr2iiMgewehwAbTvANm58tC	https://white-genuine-moose-392.mypinata.cloud/ipfs/QmShd2CeTEH2QVnKx2YejkZUP3FLZLLusdhLeMiCFSjYeG
0xD4d775d3C45a7c0628F5422DC6a87ebcB6aF0bC6	https://white-genuine-moose-392.mypinata.cloud/ipfs/QmShd2CeTEH2QVnKx2YejkZUP3FLZLLusdhLeMiCFSjYeG	

```

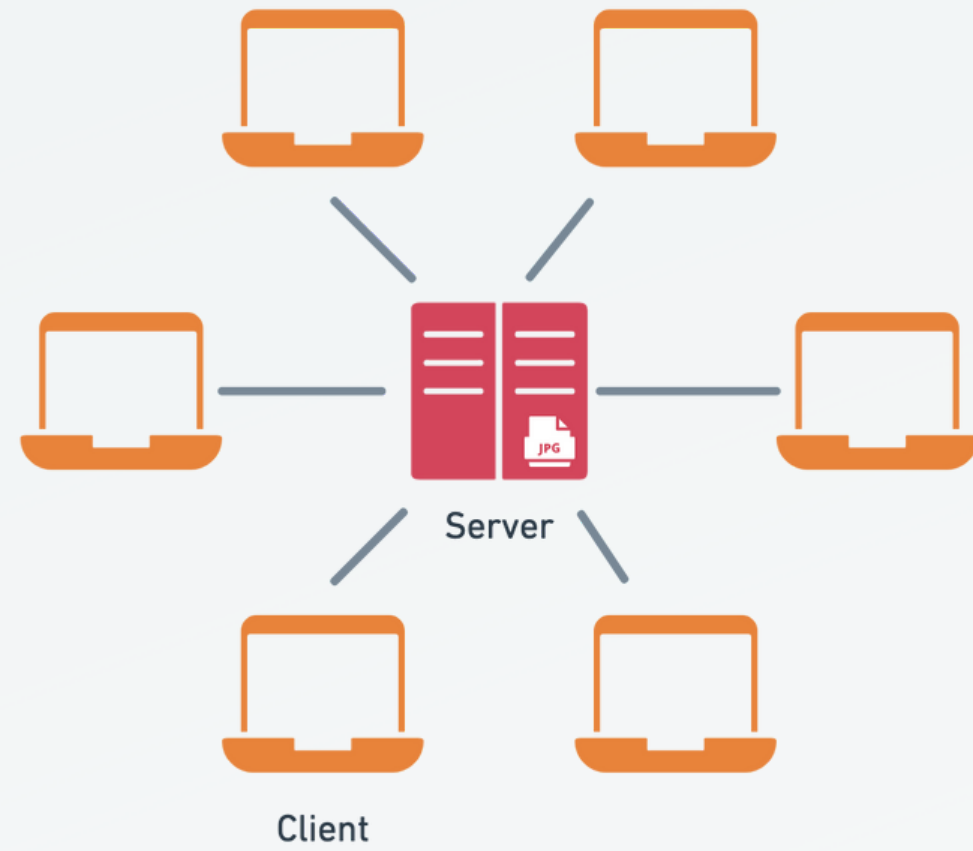
mapping(address => Access[]) public accessList;
mapping(address => Report[]) public reports;
mapping(address => mapping(address => bool)) public ownership;
mapping(address => mapping(address => bool)) public previousAccess;

struct Report{
    string reportUrl;
    string name;
    uint256 date;
    string feedback;
}

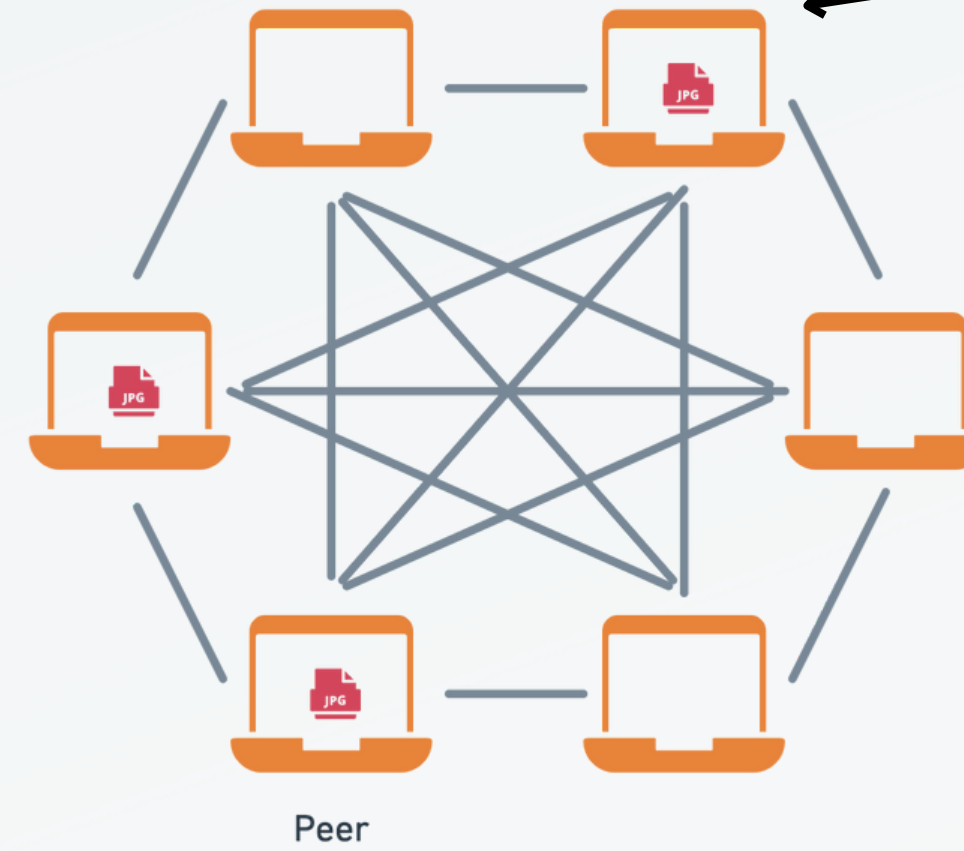
struct Access {
    address user;
    bool hasAccess;
}

```

IPFS



Client-Server model
HTTP



Peer-to-peer model
IPFS

hash -
QmVCYRDjsa7CG42Rjuh4Zkgxr2ii
MgewehwAbTvANm58tC

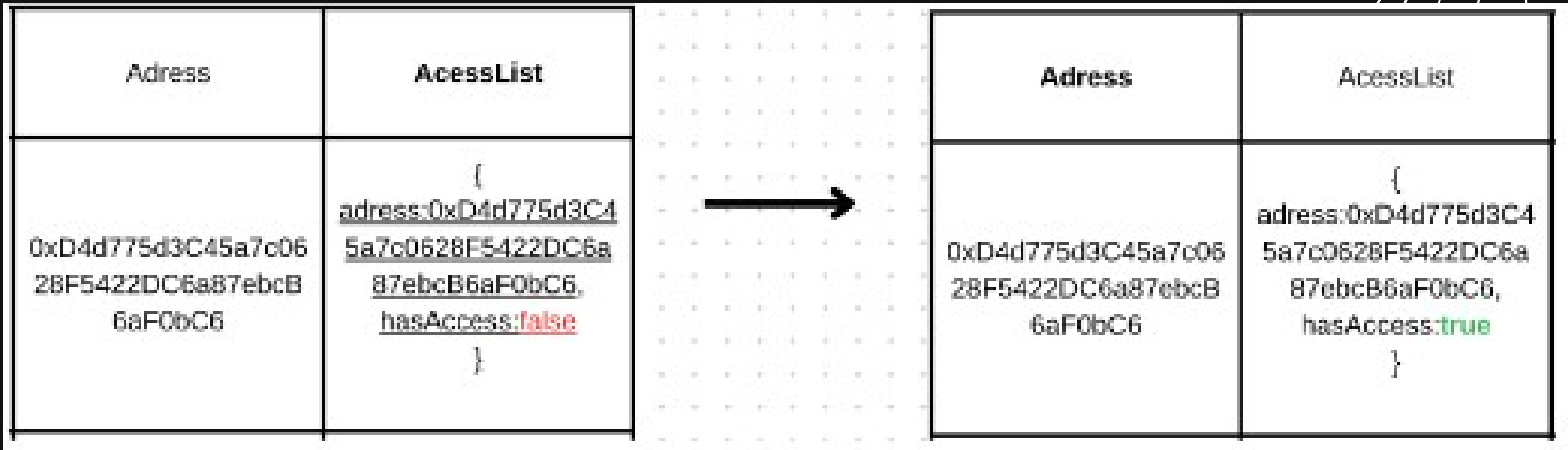
ДЕЦЕНТРАЛІЗОВАНЕ
ЗБЕРІГАННЯ

ПРИВАТНІ МЕРЕЖІ

```

function allow(address _user) external {
  ownership[msg.sender][_user]=true;
  if (previousAccess[msg.sender][_user]==true){ // if user once has given access
    for(uint i=0; i<accessList[msg.sender].length; i++){
      if (accessList[msg.sender][i].user==_user){
        accessList[msg.sender][i].hasAccess=true;
      }
    }
  } else {
    accessList[msg.sender].push(Access(_user, true));
    previousAccess[msg.sender][_user]=true;
  }
}
}

```



ТЕСТУВАННЯ

The screenshot shows the 'Report incident to blockchain' web application. At the top left, there are 'Share' and 'Revoke' buttons. At the top right, there is a 'Connect with MetaMask' button. The main heading is 'Report incident to blockchain'. Below the heading, the status is 'Address: Not connected'. There are three input fields: 'Choose Report File', 'File: No image selected', and 'Upload File'. Below these, there is a section for 'Fetch reports by address' with an 'Enter Address' field, two date pickers (dd.mm.yyyy), and a 'From - To' label. A 'Get Data' button is located below the date pickers.

The screenshot shows the MetaMask mobile interface. At the top right, it says '1 of 2'. Below that, there is a URL 'http://localhost:3000'. The main heading is 'Connect with MetaMask' with the subtext 'Select the account(s) to use on this site'. There are two options for account selection: 'Main (0x5fdef...fa7f9) 0.49282609 ETH' with a checked checkbox, and 'For Testin... (0xd4d77..... 0.49841583 ETH)' with an unchecked checkbox. At the bottom, there are 'Cancel' and 'Next' buttons.

Authenticated

The screenshot shows the 'Report incident to blockchain' web application after authentication. The status is now 'Address: 0x5fdEf9476FDe30cDa6a84f9207D475748Ddfa7F9', which is highlighted with a red underline. The 'File' field now shows 'Incident Report Form Filled.pdf'. The 'Upload File' button is now highlighted in green.

UPLOAD REPORT



DISPLAY REPORTS MODULE

Optimism Sepolia (Alchemy)

Main

: ADD

\$0.00

DETAILS HEX

Future transactions will queue after this one.

Estimated fee **\$0.39**
0.00012636 ETH
Slow -30 sec
Max fee: 0.00012636 ETH

[Fee details](#)

Total \$0.39 0.00012652 ETH
Amount + gas fee
Max amount: 0.00012652 ETH

Fetch reports by address :

From - To

INCIDENT REPORT FORM

INCIDENT REPORT FORM Filled.pdf

INCIDENT REPORT FORM

VOLKOV IVAN



2

Share with

0xD4d775d3C45a7c0628F5422DC6a87ebcB6a

Cancel Share

1

Повідомлення з localhost:3000
You don't have access.
OK

Report incident to blockchain

Address: 0xD4d775d3C45a7c0628F5422DC6a87ebcB6aF0bC6

File: No image selected

Fetch reports by address :

0x5fdEf9476FDe30cDa6a84f9207D475748Ddf

Get Data

3

Address: 0xD4d775d3C45a7c0628F5422DC6a87ebcB6aF0bC6

Choose Report File File: No image selected

Fetch reports by address :

0x5fdEf9476FDe30cDa6a84f9207D475748Ddf

дд.мм.рррр From - To дд.мм.рррр

Get Data

Incident Report Form.pdf Incident Report Form Filled.pdf Incident Report Form.pdf cv.pdf

Feedback Feedback Feedback Feedback

INCIDENT REPORT FORM

PERSON'S INVOLVED

INCIDENT

Constructive report, but please describe more about the reason...

Cancel Submit

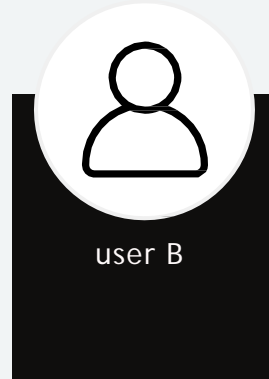
INCIDENT REPORT FORM

PERSON'S INVOLVED

ADDRESS

INCIDENT

4



Incident Report Form.pdf

Feedback

Please provide more info about the amount of people affected by incident and estimated time to solve the issue.

Cancel Submit

INCIDENT REPORT FORM

PERSON'S INVOLVED

Full Name: _____ Address: _____
 Mobile No: 01 23 45 67 89 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00
 Title: _____
 Email: _____ Department: _____
 Address: _____
 Full Name: _____ Full Name: _____
 Phone 1: _____ Phone 2: _____
 Email: _____ Email: _____
 Mobile Number: _____ Mobile Number: _____

INCIDENT

Date of Incident: _____ Time: _____ AM / PM
 Location: _____
 Incident Details: _____
 How the Incident Report was created (using the user, email or both, name, status, etc. as possible)

Page 1 of 2 TRADIFY

Ok, let's upload filled one ...



Incident Report Form Filled.pdf

Feedback

Now it's good. Approved!

Cancel Submit

INCIDENT REPORT FORM

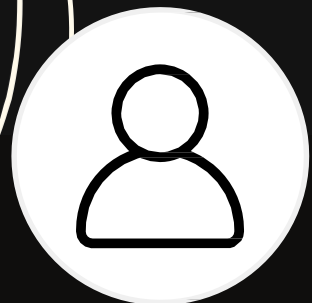
PERSON'S INVOLVED

Full Name: _____ Address: _____
 Mobile No: 01 23 45 67 89 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00
 Title: _____
 Email: _____ Department: _____
 Address: _____
 Full Name: _____ Full Name: _____
 Phone 1: _____ Phone 2: _____
 Email: _____ Email: _____
 Mobile Number: _____ Mobile Number: _____

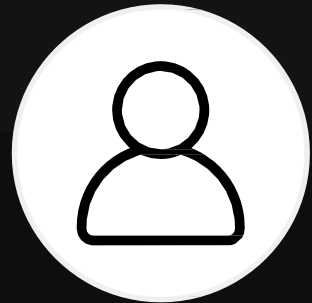
INCIDENT

Date of Incident: _____ Time: _____ AM / PM
 Location: _____
 Incident Details: _____
 How the Incident Report was created (using the user, email or both, name, status, etc. as possible)

Page 1 of 2 TRADIFY



user A



user B

5

Address: 0x5fdEf9476FDe30cDa6a84f9207D475748Ddfa7F9

File: No image selected

Access List

0xD4d775d3C45a7c0628F5422DC6a87ebcB6aF0bC6

Cancel Revoke

6

Телепрограма brtsh.cl/sp - Поис... XML Validator Interview Quest

Повідомлення з localhost:3000
You don't have access.
OK

Report incident to blockchain

Address: 0xD4d775d3C45a7c0628F5422DC6a87ebcB6aF0bC6

File: No image selected

Fetch reports by address :

0x5fdEf9476FDe30cDa6a84f9207D475748Ddf

Get Data

ДЯКУЮ

З

А УВАГУ

Висновки

