



VIETNAM HACKATHON 2024
ONCHAIN NAMES & IDENTITY
THE WINNING PROJECTS

The winning Projects

01. LMail - LANN Team

The First Prize Topic: "Building secured Email System" [\(1\)](#)

02. MoonMail - To The Moon Team

The Second Prize Topic: "Building secured Email System" [\(2\)](#)

03. OxDDead Email - OxDDead Team

The Third Prize Topic: "Building secured Email System" [\(3\)](#)

04. DoMail - Code Is Bug Team

The Fourth Prize Topic: "Building secured Email System" [\(4\)](#)

05. BlueSe DAO - Bluess Team

The First Prize Topic: "SocialFi Apps & Footnote & Identity-eKYC" [\(5\)](#)

06. Hearing Bundles - TechTack Team

The Third Prize Topic: "SocialFi Apps & Footnote & Identity-eKYC" [\(6\)](#)

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VIETNAM

HACKATHON

ONCHAIN NAMES AND IDENTITY

1ST PRIZE

60.000.000 VND

Topic: "Building secured Email system"



LANN Team



Welcome to LMail

SEcure self-hosted email server with hns domain



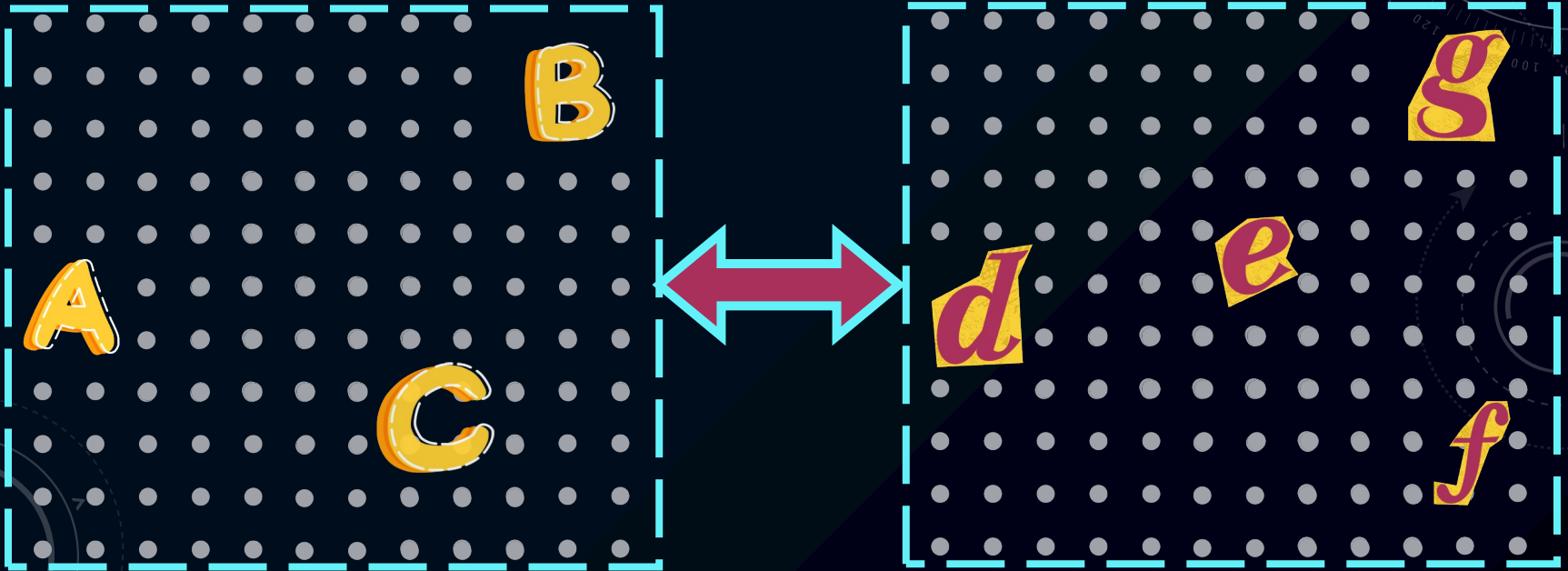
About LMail's objectives

- To use HNS domain as email address to send and receive mails
- To provide the self-hostability
- To provide easy and comfortable setup instructions
- To ensure maximum privacy for all communications



our Design (1)

- One admin can host a mail server with his/her own handshake domain
- Email accounts with the same/different TLDs can send or receive email to/from each other



our design (2)

4 main components of Email server and client solution

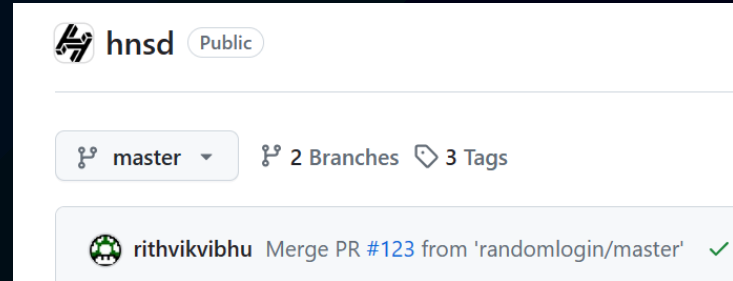
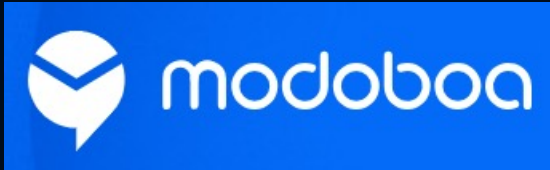
- An **user-friendly interface** for managing email accounts, composing, sending, and receiving emails
- Sending and receiving emails using the **SMTP** (Simple Mail Transfer Protocol) and **IMAP** (Internet Message Access Protocol) protocols
- **Storing** user account information, email metadata, and cryptographic keys securely and locally
- Securing emails with **end-to-end encryption** (Future Development)



our Design (3)

open sources

- Modoboa WebMail Server - be self-hostable, easily used within handshake domains
- HNS resolution (HNSD) - support the server finding Handshake domains



How?

Requirements

- A linux server (virtual or physical) with a static IP address
- Port 25 of the server should be open to the Internet

Quick setup

- Allowing users to deploy a Modoboa email server with just one single command
- `$ sudo ./autorun.sh`

Manual setup

- Following remaining steps in [our instruction](#) to set up HNSD and things

Applications & Advantages

- Each organization/company/community or a group of people can have their own mail server corresponding to their handshake domain
- Therefore, each employee/student/member can have their own user account, provided by the company/organization/school



conclusion

- Now, we have shown the whole ideas for a secure and private email solution with end-to-end encryption for handshake domain users
- Using our email server, customers or organizations can host their own mail server which is designed for comfortable and secured communication with partners
- Moreover, this email server also brings useful applications for organizations or communities

Reference

- [onchain-names-hackathon/messaging/email.md](https://github.com/onchain-names-hackathon/messaging/email.md) at main · Nathanwoodburn/onchain-names-hackathon (github.com)
- <https://learn.namebase.io/>
- <https://github.com/modoboa/modoboa>
- <https://github.com/handshake-org/hnsd>

The background is a dark blue gradient with a diagonal split. On the right side, there are faint, light blue technical diagrams, including a circular scale with numbers from 0 to 210 and several concentric circles with arrows indicating rotation. On the left side, there are also faint circular diagrams, including a dashed circle with an arrow pointing left.

THANK YOU
FOR
LISTENING

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ONCHAIN NAMES AND IDENTITY

2ND PRIZE

25.000.000 VND

Topic: "Building secured Email system"

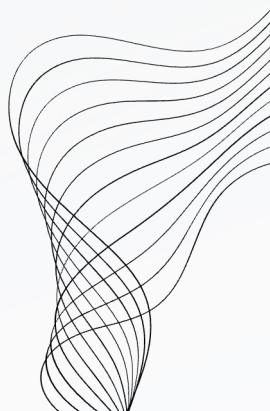


To The Moon Team



EMAIL-WALLET
AS A SERVICE
WITH HANDSHAKE DOMAIN

MOONMAIL by To The Moon Team



CONTENT

- 01 PROBLEMS
- 02 OUR SOLUTIONS
- 03 FEATURES IN FUTURE

PROBLEMS



E2E Encryption



VERIFY MAIL DOMAIN

PROBLEMS



PRIVACY ON-CHAIN



TRANSFERRING ON BLOCKCHAIN

PROBLEMS



HARD to protect wallet



HARD to setting an email-system
on HandShake domain..

OUR SOLUTIONS

PRIVACY

Native 2E2

EASY TO CONNECT TO WEB 3

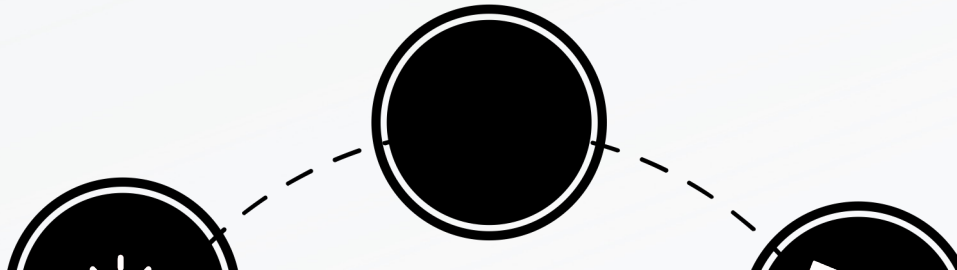
We have a native wallet base on Zk Email wallet.

Now, users

- can transfer their tokens
- can execute with smartcontracts
- can swap by using uniswap3
- a dapp in mail-app - same idea like TON

Privacy transaction

Dont worry about reveal indentity when transfer your token.



OUR SOLUTIONS

ONCHAIN DKIM

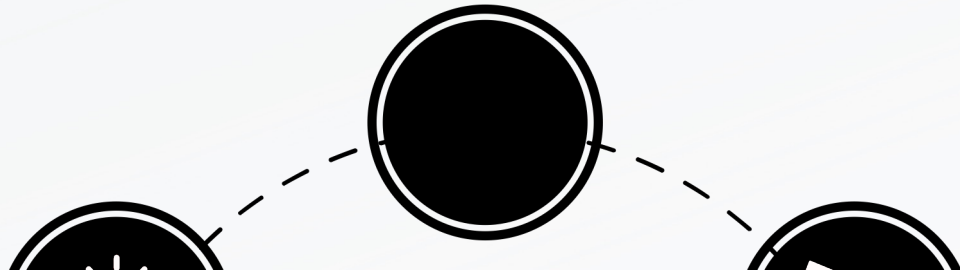
To specify which domains are communicated with the relay
Using ICP to store.

EASY TO USE

We build fully Docker containerized

ABTRACTION ACCOUNT

Using abstraction account - EIP 4337 to create wallet for user.



FLOW WORK

Basically, the flow works like this:

- Users send an email to a "Relayer" server with their intent in the email subject. For example "Send 1 ETH to someone@handshake.org"
- The relayer creates the ZK proof of the mail and calls the Core contract with proof of email and parameters extracted from the subject.
- The Core contract validates the proof, ensures that extracted parameters match the actual signed subject, and executes the operation on the account contract.

Creating wallet

Email Wallet Account Creation. Code 01efa4e2240f39cbdbc2dfd68e98f940b99c212d738b5ffb7f63334522fccd52 Hộp thư đến x

relayer@emailwallet.org

đến tôi ▾

22:57 Th 2, 1 thg 4 ☆

 Dịch sang Tiếng Việt



Email Wallet

Welcome, doduc0610@gmail.com!

To create your email wallet, **you must reply "confirm" to this email**. If you did not make this request, feel free to ignore this email.

Good luck!

Powered by [ZK Email](#)



Đỗ Đức <doduc0610@gmail.com>

đến relayer@emailwallet.org ▾

22:58 Th 2, 1 thg 4 ☆

confirm

Send Token

Send 1 TEST to doanhduc2002.lequydon@gmail.com Hộp thư đến x



relayer@emailwallet.org

Complete your transaction request on your Email Wallet Hi doduc0610@gmail.com! To complete your transaction request Send 1 TEST to doanhduc2002.lequydon@gmail



Đỗ Đức <doduc0610@gmail.com>

đến relayer@emailwallet.org ▼

confirm

Vào Thứ Bảy, 27 tháng 4, 2024, <relayer@emailwallet.org> đã viết:



Your Email Wallet transaction is completed. Hộp thư đến x



relayer@emailwallet.org
đến tôi ▾

23:33 Th 7, 27 thg 4 (10 giờ trước) ☆ 😊 ↶ ⋮



Email Wallet

Hi doduc0610@gmail.com!

Your transaction request **Re: Send 1 TEST to doanhduc2002.lequydon@gmail.com** has been completed [in this transaction](#). Thank you for using Email Wallet!

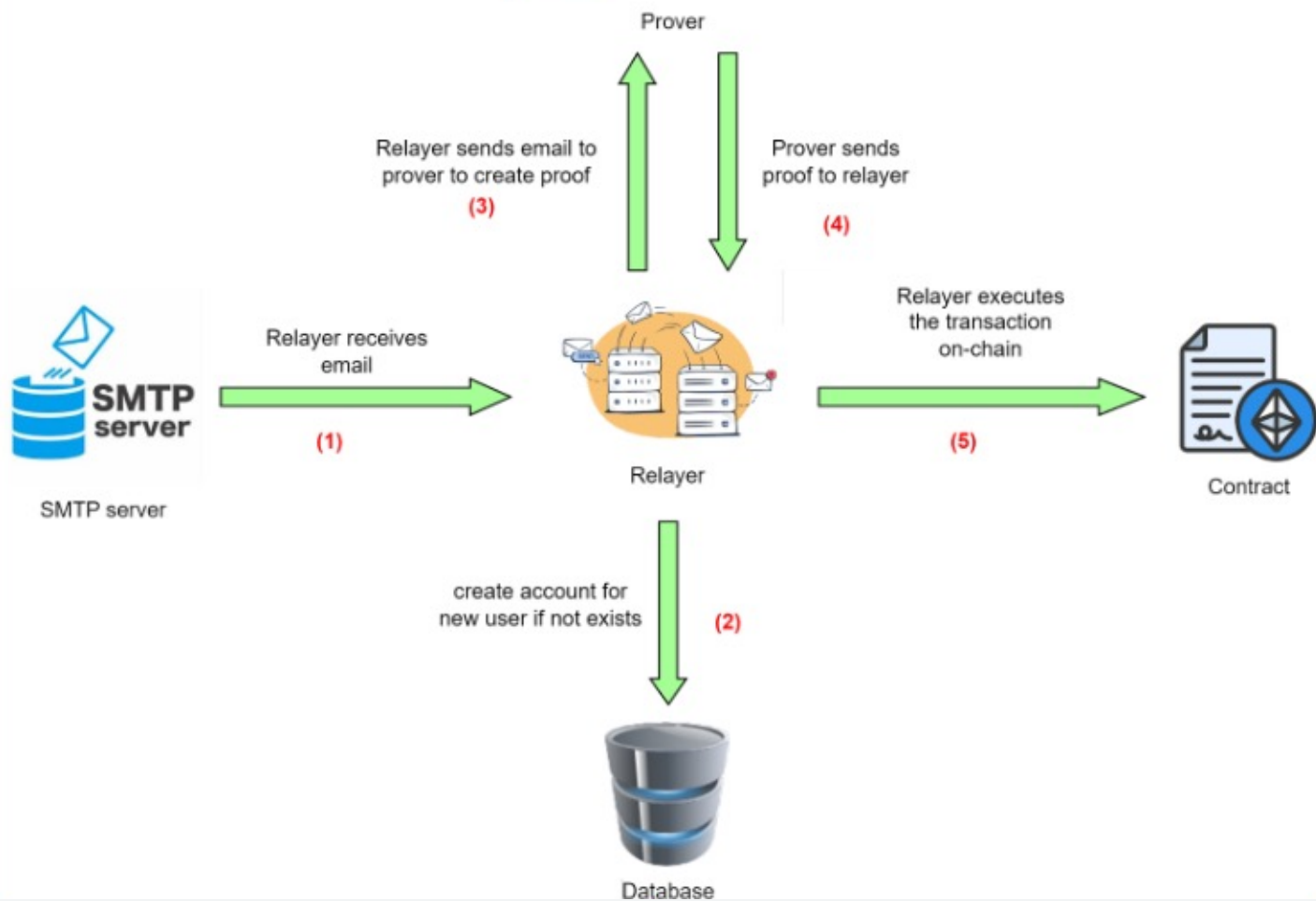
[View Wallet on Explorer](#)

[Check the transaction](#)

Good luck!

Powered by [ZK Email](#)





The background is a solid black color. It features several abstract white line patterns. On the left, there is a series of curved lines that fan out from the top left towards the center. On the right, there are more complex, wavy lines that resemble a stylized 'S' or a series of overlapping curves. In the bottom left corner, there are faint, light gray circular patterns with arrows, suggesting a cycle or process. In the top right, there are faint, light gray circular patterns with numbers, suggesting a scale or measurement. The overall aesthetic is clean, modern, and technical.

PROJECT TIMELINE

01

NOW

EMAIL - E2E
By using Maillu.
we have an email e2e

02

IN DEVERLOPING

EMAIL- WALLET
Working on Sepolia

03

IN DEVELOPING

EMAIL-WALLET on OP
to interact with handshake
SmartContracts

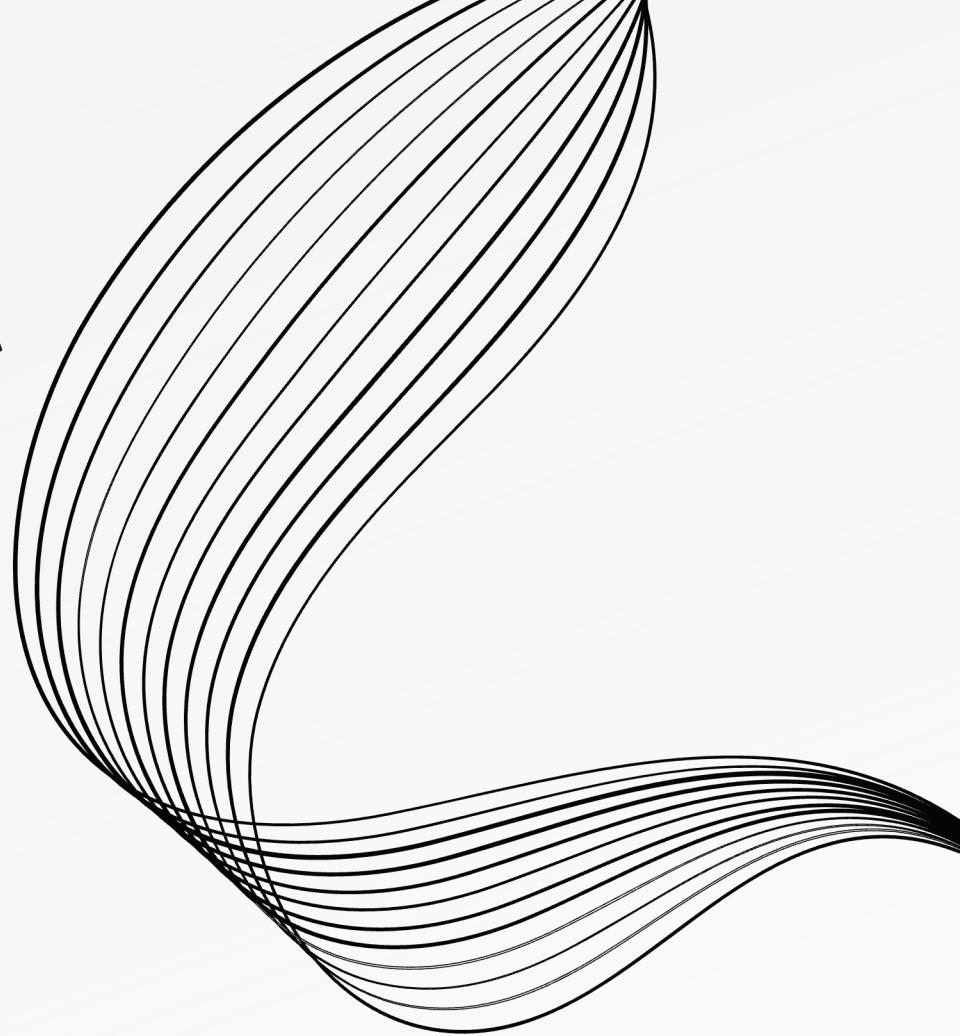
04

MESSAGING APP

EASY

- to interact with web3.
- to protect your transaction info.

THANK'S FOR
WATCHING



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3RD PRIZE

15.000.000 VND

Topic: "Building secured Email system"



OxDaAd Team



OXDEAD EMAIL SYSTEM

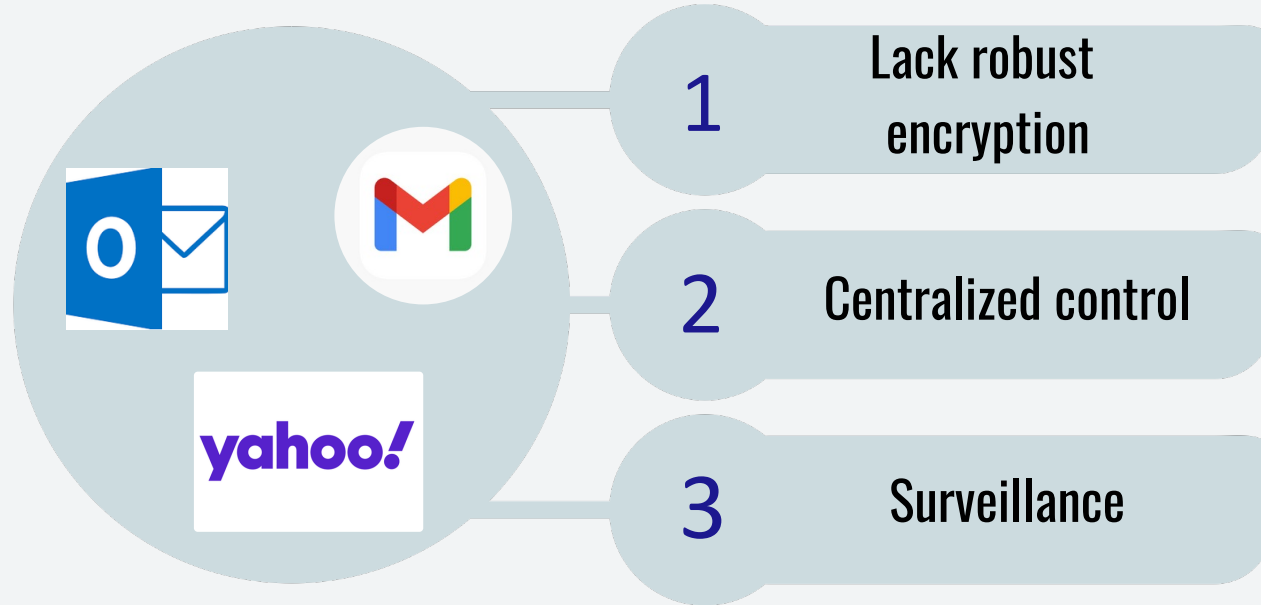
Team: OxDeAd



CONTENT

- 01 PREFACE
- 02 ARCHITECTURE
- 03 DECENTRALIZATION
- 04 ENCRYPTION
- 05 FEATURES
- 06 DEMO

PREFACE



ARCHITECTURE

Decentralized
email address



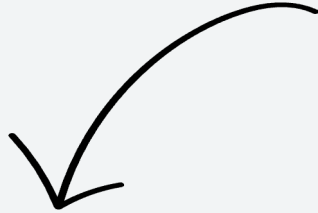
recipient



DECENTRALIZATION



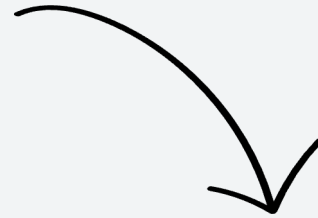
HANDSHAKE DOMAIN



NAMING PROTOCOL
(TLD)



DECENTRALIZE
D



PERMISSIONLESS
S

DNS RESOLUTION



HNSD



Fingertip

ENCRYPTION



E2E encryption



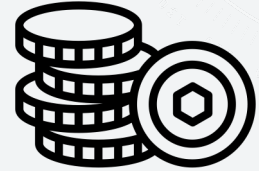
OUR PRODUCT FEATURES



SEND/RECEIVE
ENCRYPTED EMAILS



SOCIAL
NETWORK



EMAIL
WALLET

SEND/RECEIVE EMAILS

- 0xDeAd: a mail server using Handshake domain.
- Mails transferring using Handshake email addresses.
- Users can choose to encrypt their emails with some encryption steps.

SOCIAL NETWORK

- Use your Handshake email to log in the social network.
- Features like normal social networks: Twitter, Facebook,...

WEB INTERFACE

The screenshot displays a web interface with a clean, modern design. On the left, a sidebar contains navigation options: Timeline (highlighted), Notifications, Clip, Drive, Explore, Announcements, Search, Switch UI, Control Panel, More, and Settings. A green 'Note' button is at the bottom of the sidebar. The main content area shows a timeline of notes from user 'admin @admin'. The first note says 'Hello, first note here' and is 44 minutes old. The second note says 'hello from handshake domain' and is 5 hours old. The right sidebar features a calendar for April 2024, showing the 28th as a Sunday with a 6.5% progress bar for the day, 90.2% for the month, and 32.3% for the year. Below the calendar is a 'Notifications' section with four items: 'Following your first user' (40m ago), 'Nocturnal' (44m ago), 'No "Miss" in Misskey' (55m ago), and 'Short break' (1h ago). A '# Trending' section is also present but empty.

Navigation Sidebar:

- Timeline
- Notifications
- Clip
- Drive
- Explore
- Announcements
- Search
- Switch UI
- Control Panel
- More
- Settings
- Note

Timeline:

- admin @admin** 44m ago: Hello, first note here
- admin @admin** 5h ago: hello from handshake domain

Calendar (2024 4):

Day	Today	Month	Year
Sunday	6.5%	90.2%	32.3%


Notifications:

- Achievement unlocked: Following your first user (40m ago)
- Achievement unlocked: Nocturnal (44m ago)
- Achievement unlocked: No "Miss" in Misskey (55m ago)
- Achievement unlocked: Short break (1h ago)


Trending



ACCOUNT REGISTRATION

Sign Up [X]




Invitation code


Username 

 This cannot be changed later.
 Available

Password

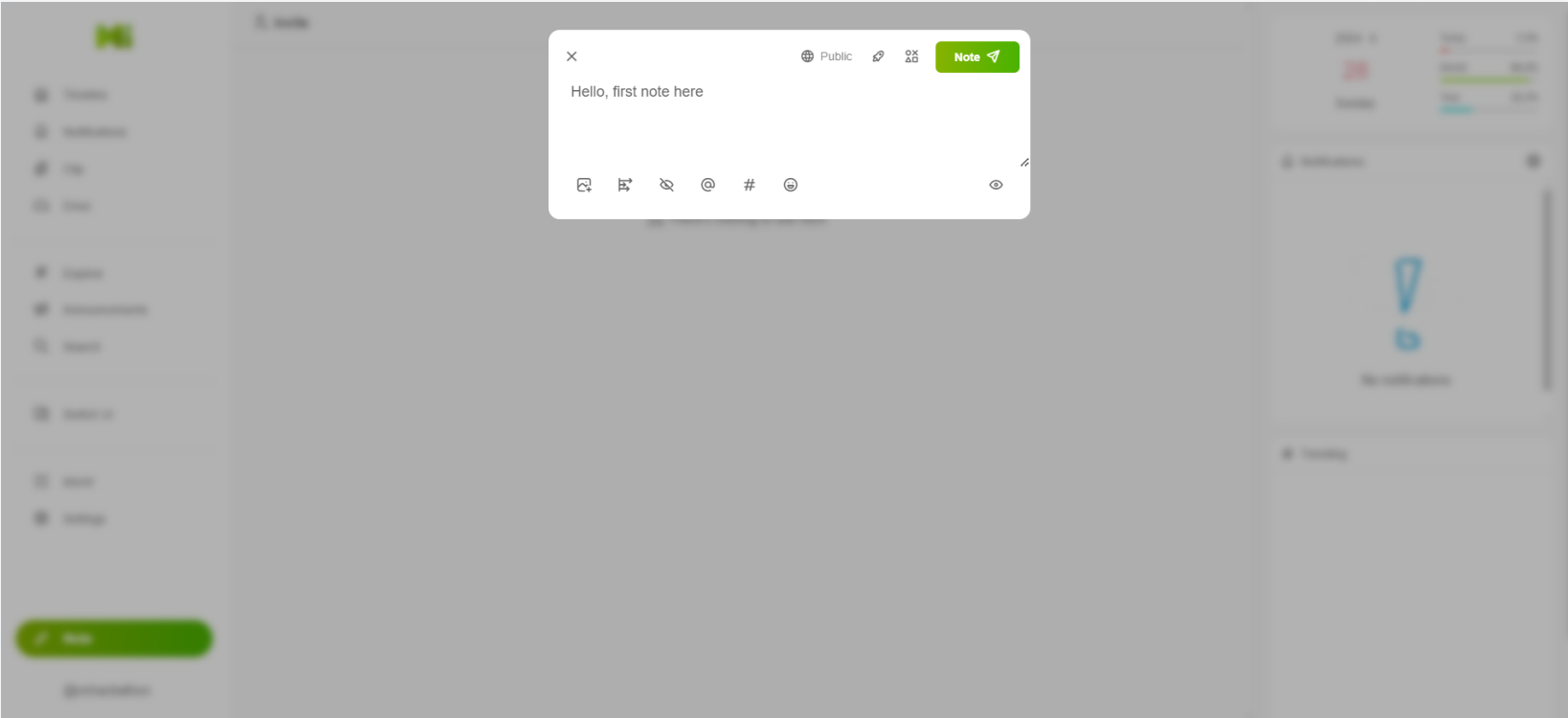
 Strong password

Password (Enter again)

 Matches

Begin

POST A NOTE



FOLLOW USERS

The screenshot displays a social media application interface. On the left is a navigation sidebar with options: Timeline, Notifications, Clip, Drive, Explore, Announcements, Search (highlighted), Switch UI, More!, and Settings. At the bottom of the sidebar is a 'Note' button and the user handle '@vnhackathon'. The main content area is titled 'Search' and shows a search bar with 'admin' entered. Below the search bar are filters for 'All' (selected), 'Local', and 'Remote', and a 'Search' button. The search results show a profile card for 'admin' (@admin) with a bio stating 'This user has not written their bio yet.' and statistics: 2 Notes, 1 Following, and 0 Followers. A 'Load more' button is visible below the profile card. On the right side, there is a statistics dashboard for the year 2024, showing 4 days, 28 days (highlighted), and Sunday. It includes progress bars for Today (8.0%), Month (90.3%), and Year (32.3%). Below the dashboard is a 'Notifications' section with a bell icon and a gear icon, showing a notification: 'Achievement unlocked: Following your first user' with a 'Just now' timestamp. At the bottom right, there is a 'Trending' section with a hash icon. A second notification card is visible at the bottom right, identical to the one above.

Search Notes Users

admin

All Local Remote

Search

Search results

admin
@admin

This user has not written their bio yet.

Notes	Following	Followers
2	1	0

Load more

2024 4 Today 8.0%
28 Month 90.3%
Sunday Year 32.3%

Notifications

Achievement unlocked Following your first user Just now

Trending

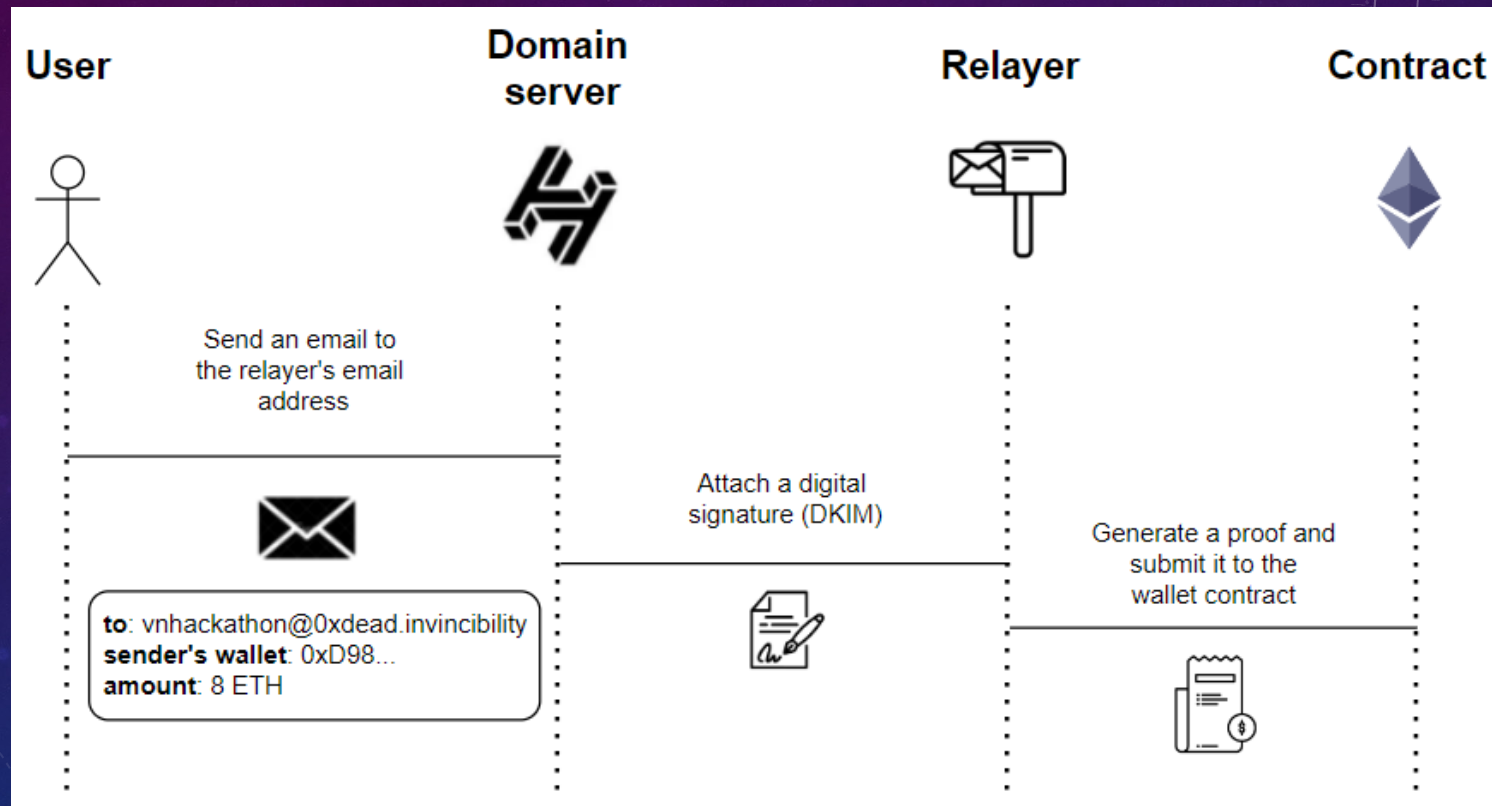
Achievement unlocked Following your first user

@vnhackathon

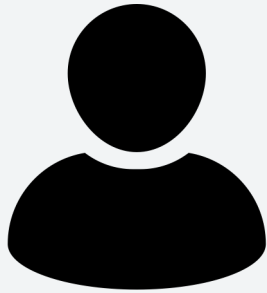
EMAIL WALLET

- Enable users to send tokens using recipient email instead of verbose wallet address.
- Leverage ZKP, use Bonsai network and RISC Zero zkEVM.

System Architecture



Sender



Log into mail address, connect
wallet

Recipient mail address

Token amount

0xDeAd Pay

powered by 0xDeAd



0xD982.....1758

Send Claim

Send

khoikhntn2109@oxdead.invi

5

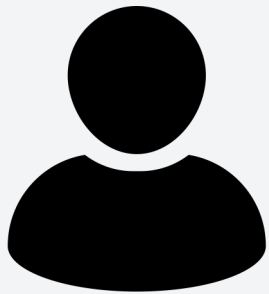
ETH



Send

Only accounts with HNS are supported.

Recipient



Log in mail address



Choose wallet to
receive tokens

0xDeAd Pay

powered by 0xDeAd



0xD982.....1758

Send Claim

1: Connect Wallet 2: **Sign In** 3: Prove & Claim

Sign in to your account

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ONCHAIN NAMES AND IDENTITY

4TH PRIZE

5.000.000 VND

Topic: "Building secured Email system"



Code La Bug Team

The background features a dark blue gradient with a subtle pattern of small white dots. Overlaid on this are several white circular elements: a large scale on the left with markings from 140 to 260, and several smaller circles with arrows indicating clockwise or counter-clockwise rotation. The text is centered in a clean, white, sans-serif font.

DOMAIL PROTOTYPE & DEMO

Presenter: Hieu Minh Le - CLB Team

CONTENTS

1. Our Expectation
2. Ideas
3. Prototype
4. What have we done ?
5. What's next ?

OUR VERY FIRST EXPECTATIONS

Secured

Useful

Decentralized



BUT,

How can the service be completely independent ?

How can we make sure the data is safe all the time ?



*How the heck can it be both but
still user-friendly ?*

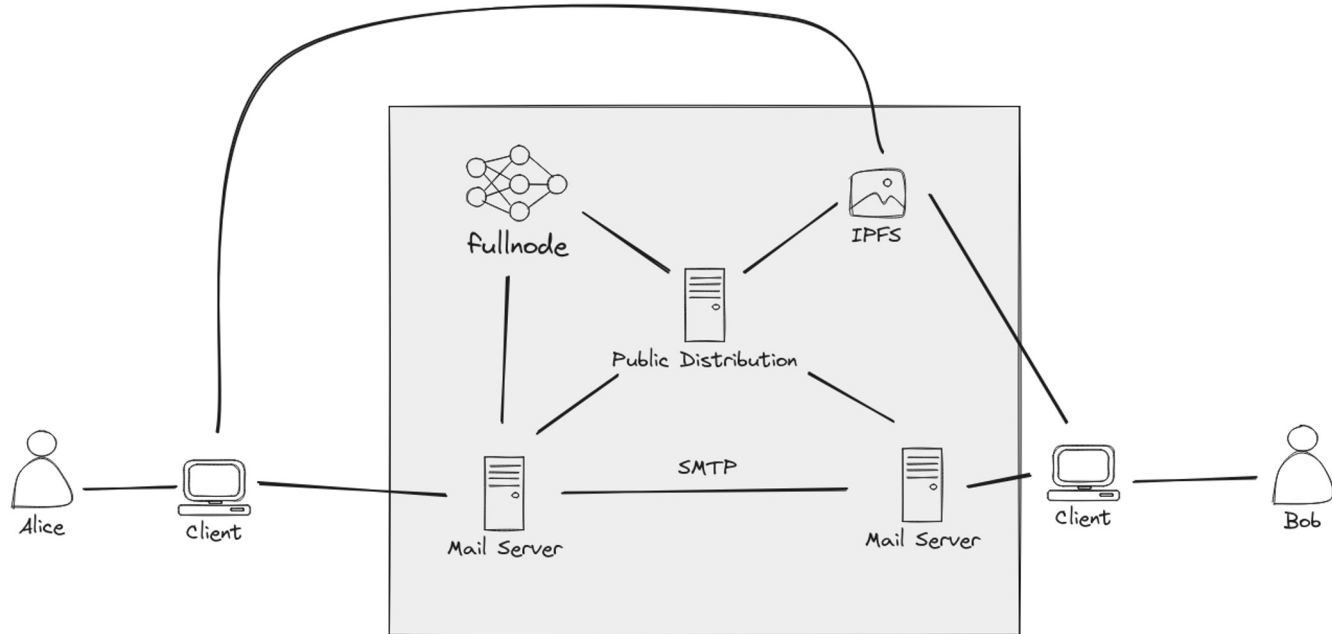
etc...

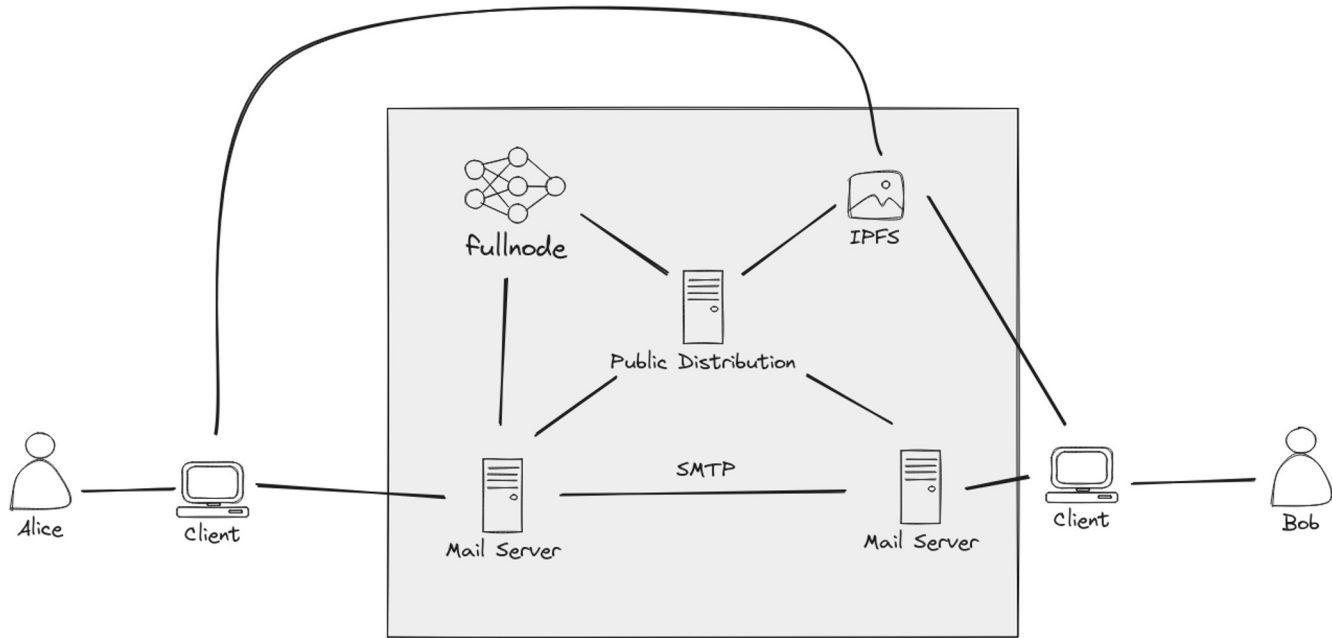
SO WHAT WERE THE IDEAS ?

A server which does authen, transfer, backup all based on blockchain.

A client which does encryption, encryption, encryption

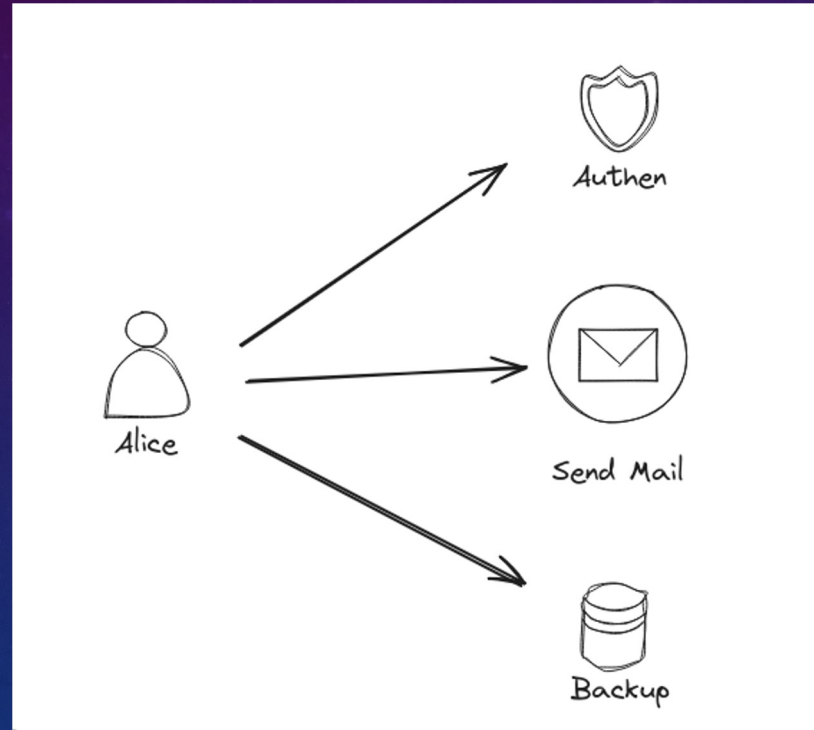
PROTOTYPE



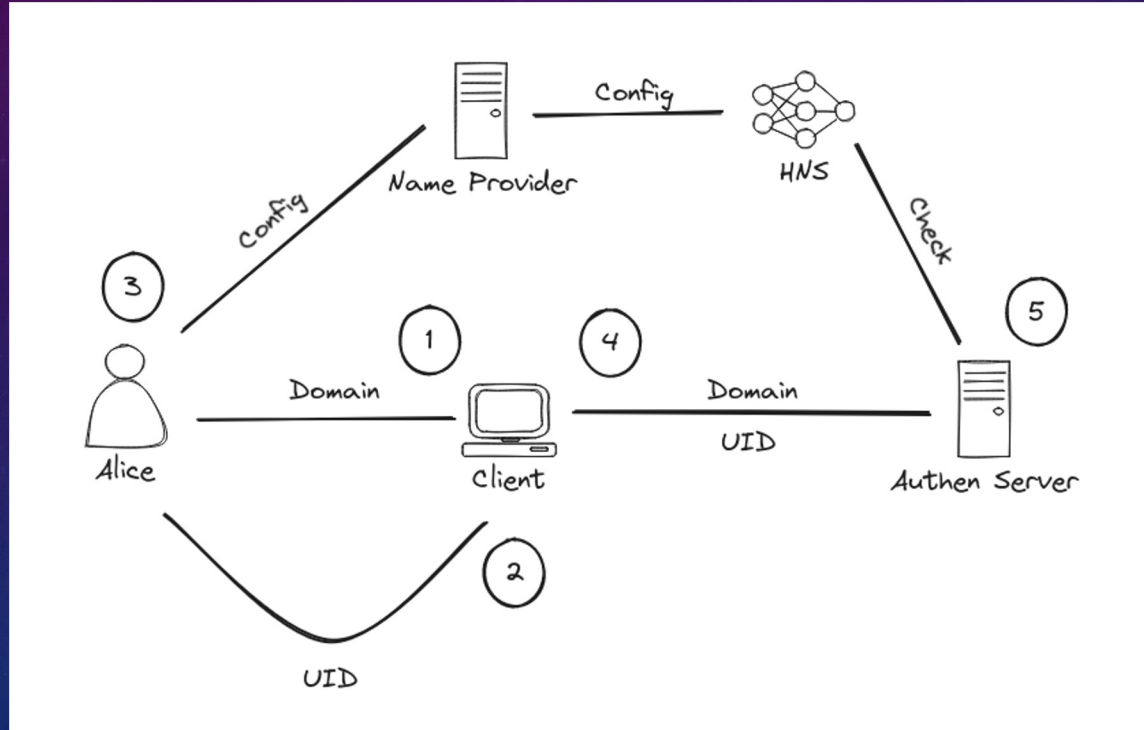


All encryptions and decryptions happen in client

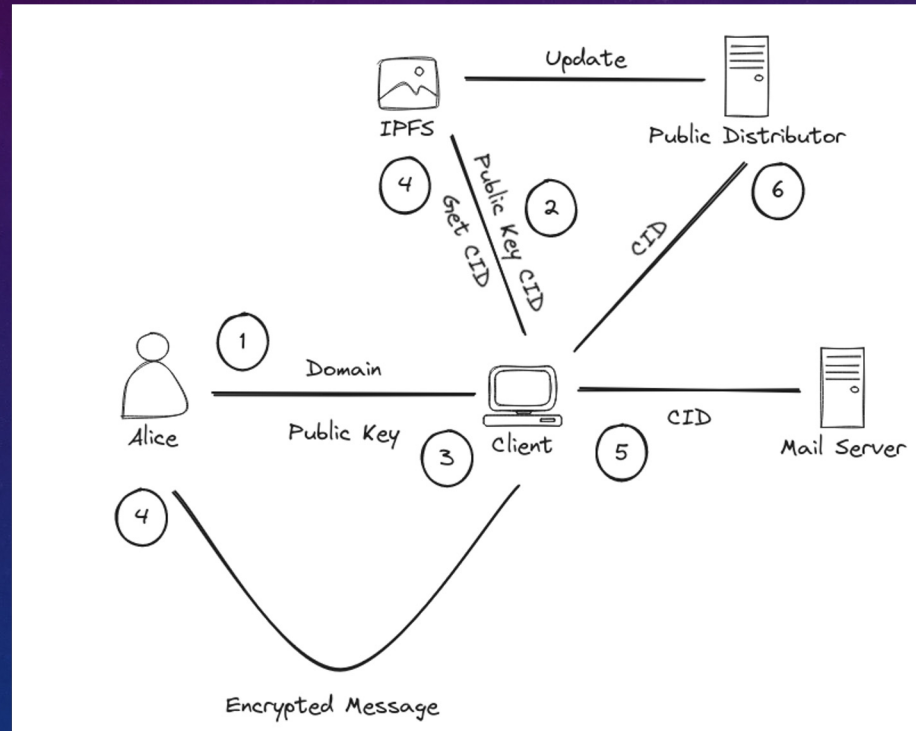
Let's dive deeper!



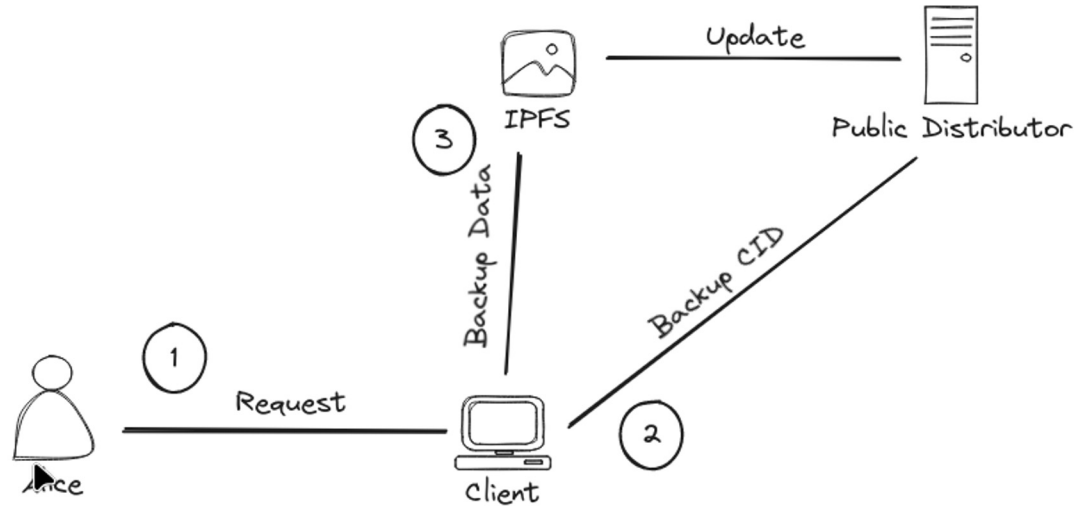
Authen service



Send Mail



Backup



WHAT HAVE WE ARCHIEVED ?

WHAT'S NEXT ?

Fully Decentralized

Config Service

THANK YOU FOR LISTENING

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ONCHAIN NAMES AND IDENTITY

1ST PRIZE

25.000.000 VND

Topic: "SocialFi Apps & Footnote & Identity-eKYC"

ONCHAIN NAMES AND IDENTITY

2024 | HANOI | U... AN KS CHOI CUL



Bluess Team

BlueSe - DAO integrated with ENS domain

Bluess Team





Problem

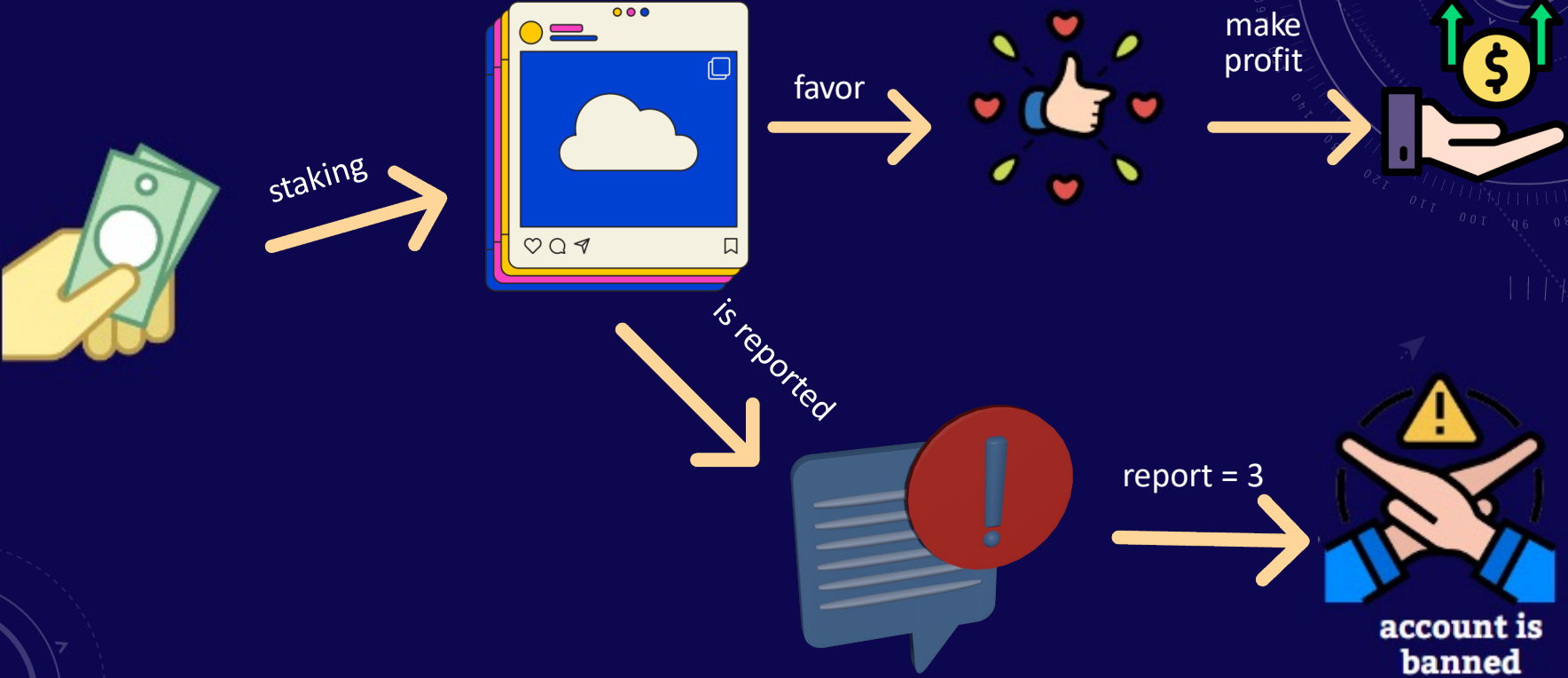
The current security level of social networking platforms is not enough to ensure the security of users' personal information. This creates indirect opportunities for hackers to commit illegal acts such as infiltrating and stealing our information for the purpose of illegal use.

Solution

- Integrate Blockchain with social networking applications to increase security and transparency in protecting personal information
- Integrate ENS domain to turn hard-to-read data strings into easy-to-read addresses, creating convenience for activities and interactions between users on BlueSe
- Integrate staking fee mechanism in interactive activities on BlueSe
- Integrate Secret key cluster associated with ENS name to increase security in accessing and interacting on BlueSe



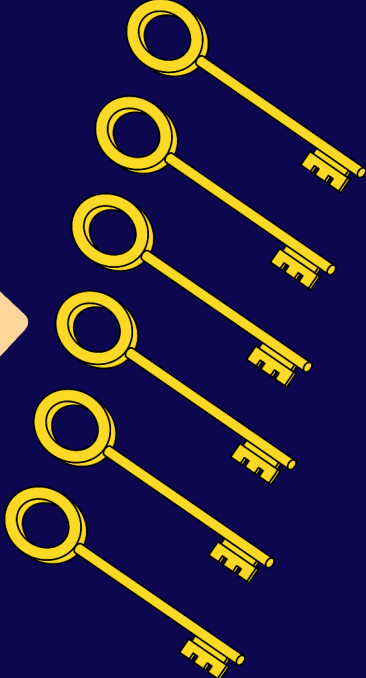
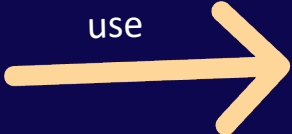
Integrate staking fee mechanism















Integrate Secret key cluster



ENS domain



Comparison to other Social Daos

	Secret key cluster	Integrated ENS domain	Integrated Blockchain	Integrated Staking Fee
BlueSe				
Boredapeya chtclub				
Seedclub				

My product feature

01

Using 6 secret key to
edit profile

02

Using 6 secret key to
create post

03

Like/Quit like post

04

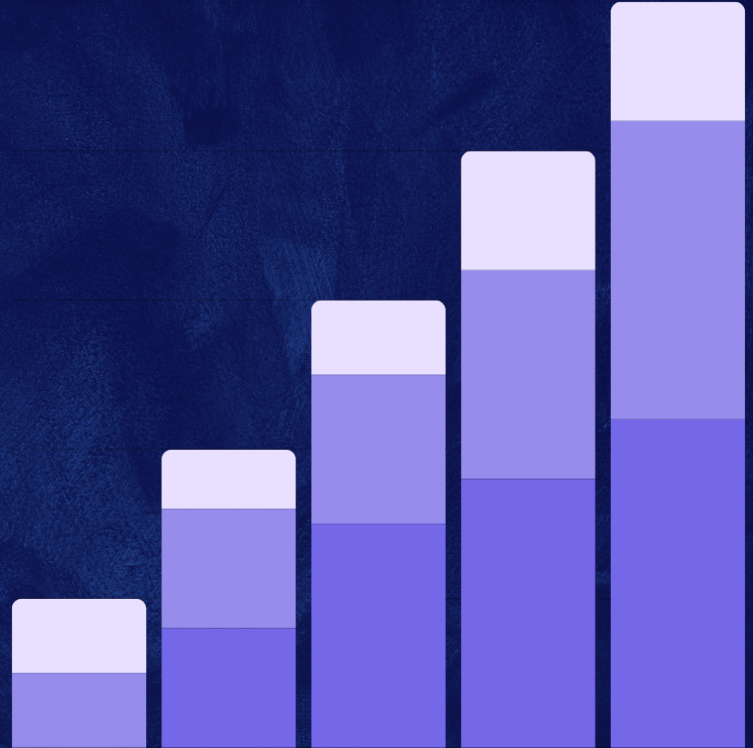
Comment and report
post

05

Add Friends

Business

- Profit from transaction fees in interactive way
- Profit from selling premium packages
- Profit from staking fee



Thank you
for
watching!



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ONCHAIN NAMES AND IDENTITY

3RD PRIZE

5.000.000 VND

Topic: "SocialFi Apps & Footnote & Identity-eKYC"



Tech Tack Team

TECHTACK

HEARING

BUNDLES

Document bundling at its best!



TEAM INFORMATION

Team name

TECHTACK

Team member information

- Ngo Tuan Anh (Team leader)
- Truong Tan Thanh
- Vo Tin Du
- Tran Chien Thang

Contact

tuananhngo.contact@gmail.com

+84 931 681 164

Table of contents



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PAIN POINTS

2

SOLUTIONS

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KEY FEATURES

5

DESIGN OVERVIEW

PAIN POINTS



Ensure document integrity

THE PROBLEM IS THAT DOCUMENTS CAN BE EDITED BY WEBSITE ADMINISTRATORS OR HACKERS.



Disorganization Dilemma

EVER FELT THE FRUSTRATION OF HUNTING THROUGH SCATTERED DOCUMENTS FROM DIFFERENT SOURCES, STRUGGLING TO PIECE TOGETHER A COHERENT BUNDLE?



Clock Ticking Loudly

PICTURE THE NERVE-WRACKING EXPERIENCE OF MANUALLY BUNDLING DOCUMENTS, EACH PASSING SECOND AMPLIFYING THE PRESSURE AS DEADLINES LOOM.



Lonely Battle

IMAGINE THE ISOLATION OF WRESTLING WITH DOCUMENT PREPARATION, THE LACK OF SEAMLESS COLLABORATION MAKING EVERY STEP FEEL LIKE AN UPHILL BATTLE.

Our Solution - Seamless document bundling

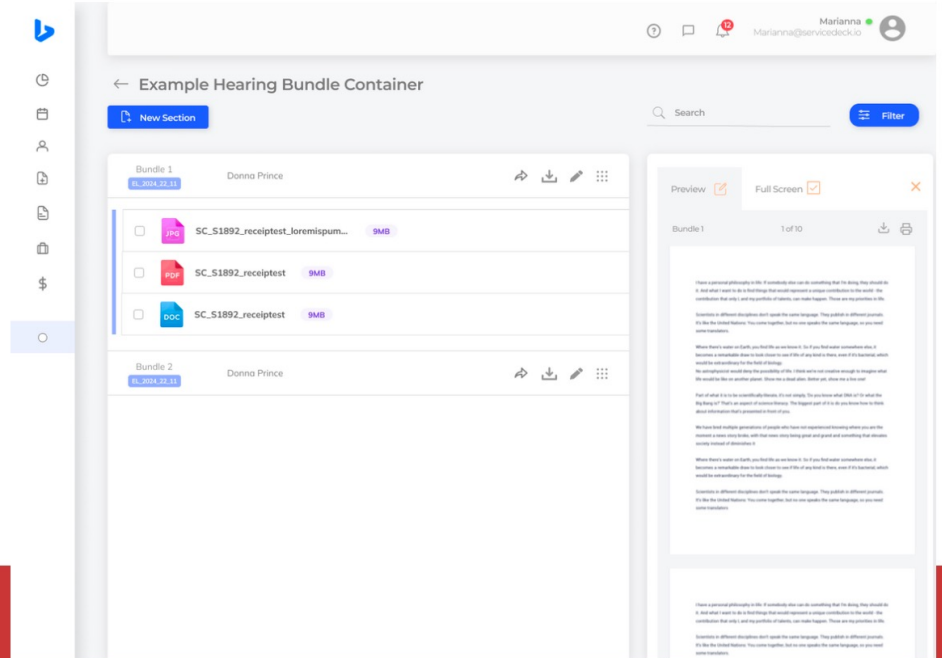
HEARING BUNDLES



OVERVIEW

HEARING BUNDLES REVOLUTIONIZES THE WAY YOU HANDLE DOCUMENTS. IT'S A CUTTING-EDGE SOLUTION DESIGNED FOR SEAMLESS DOCUMENT BUNDLING, ENSURING EFFICIENCY, ORGANIZATION, AND SIMPLICITY.

WITH **HEARING BUNDLES**, YOU CAN TRANSFORM A CHAOTIC COLLECTION OF DOCUMENTS FROM VARIOUS SOURCES INTO A METICULOUSLY ORGANIZED AND STRUCTURED BOOKLET IN A MATTER OF MINUTES.



KEY FEATURES



DOCUMENT BUNDLING

Gather documents from diverse sources effortlessly, eliminating the hassle of dealing with scattered files.



QUICK ORGANIZATION

Experience the power of rapid organization, where documents are neatly numbered, indexed, and sectioned, saving you valuable time.



VERSIONS CONTROL

Handle documents of any size with version control, tracking changes and updates efficiently.



EKYC

Handle documents of any size with ease, using eKYC to authenticate the identity of document editors.



INSTANT READINESS

Once bundled, your documents are instantly ready for saving, sharing, or printing, ensuring prompt action on your part.



BLOCKCHAIN

Once documents have been merged together, with blockchain technology the documents cannot be edited by anyone in the system.

DESIGN OVERVIEW

1. Architecture & Technology

2. UI Demo

1. ARCHITECTURE & TECHNOLOGY

To create a Web3 application, we plan to use a few of the following technologies:

- NextJS, Web3.js, Redux, MUI to build the user interface
- Python, NodeJS to handle backend tasks
- To handle blockchain related tasks: Solidity, ORC, Handshake domain, etc...

2. DEMO

The screenshot displays a web application interface for bundle management. A modal dialog titled "Bundle Setting" is open, showing the configuration for a bundle named "PVNDB Retainer".

Bundle Setting Modal:

- Title:** PVNDB Retainer
- Bundle Code:** EL_2024_12_11
- Document Style:** (Dropdown menu)
- Advanced:** (Dropdown menu)
- Collaborators:** (Dropdown menu)
- Email Distribution:** Includes an email input field, a "Guest" dropdown, and a "Send" button.
- Select all:** A checkbox option.

Background Interface:

- Page Title:** Bundle management
- Buttons:** "Add New Bundle", "Search", "Filter", "Trash", "Duplicate", "Bundle Setting".
- Table:** A table with columns "Name" and "Code". One row is visible: "PVNDB Retainer" with code "EL_2024_12_11".
- User Profile:** Marianna, Marianna@servicedeck.io

Demo Screen

2. DEMO

The screenshot displays a web application interface for managing a bundle container. On the left, a vertical sidebar contains several icons: a blue logo, a clock, a calendar, a person, a document with a plus sign, a document, a folder, a dollar sign, and a circle. The main content area is titled "Example Hearing Bundle Container" and features a "New Section" button. Below this, there are two bundle entries, both owned by "Donna Prince" and dated "EL_2024_22_11".

Bundle 1 (EL_2024_22_11) contains three files:

- SC_S1892_receiptest_loremispum... 9MB
- SC_S1892_receiptest 9MB
- SC_S1892_receiptest 9MB

Bundle 2 (EL_2024_22_11) is currently empty.

On the right side, there is a search bar and a "Filter" button. A "Preview" window is open, showing a document titled "Bundle 1" (1 of 10). The document content includes several paragraphs of text, such as:

I have a personal philosophy in life. If somebody else can do something that I'm doing, they should do it. And what I want to do is find things that would represent a unique contribution to the world - the contribution that only I, and my portfolio of talents, can make happen. These are my priorities in life.

Scientists in different disciplines don't speak the same language. They publish in different journals. It's like the United Nations. You come together, but no one speaks the same language, so you need some translators.

Where there's water on Earth, you find life as we know it. So if you find water somewhere else, it becomes a remarkable place to look closer to see if life of any kind is there, even if it's bacteria, which would be extraordinary for the field of biology.

No anthropologist would deny the possibility of life. I think we're not creative enough to imagine what life would be like on another planet. Show me a dead alien. Better yet, show me a live one!

Part of what it is to be scientifically literate, it's not simply, "Do you know what DNA is?" Or what the Big Bang is? That's an aspect of science literacy. The biggest part of it is to do you know how to think about information that's presented in front of you.

We have had multiple generations of people who have not experienced knowing where you are the moment a news story breaks, with that news story being great and grand and something that elevates society instead of diminishes it.

Where there's water on Earth, you find life as we know it. So if you find water somewhere else, it becomes a remarkable place to look closer to see if life of any kind is there, even if it's bacteria, which would be extraordinary for the field of biology.

Scientists in different disciplines don't speak the same language. They publish in different journals. It's like the United Nations. You come together, but no one speaks the same language, so you need some translators.

Demo Screen

A solid red vertical bar occupies the left side of the image, extending from the top to the bottom edge.

THANK YOU