

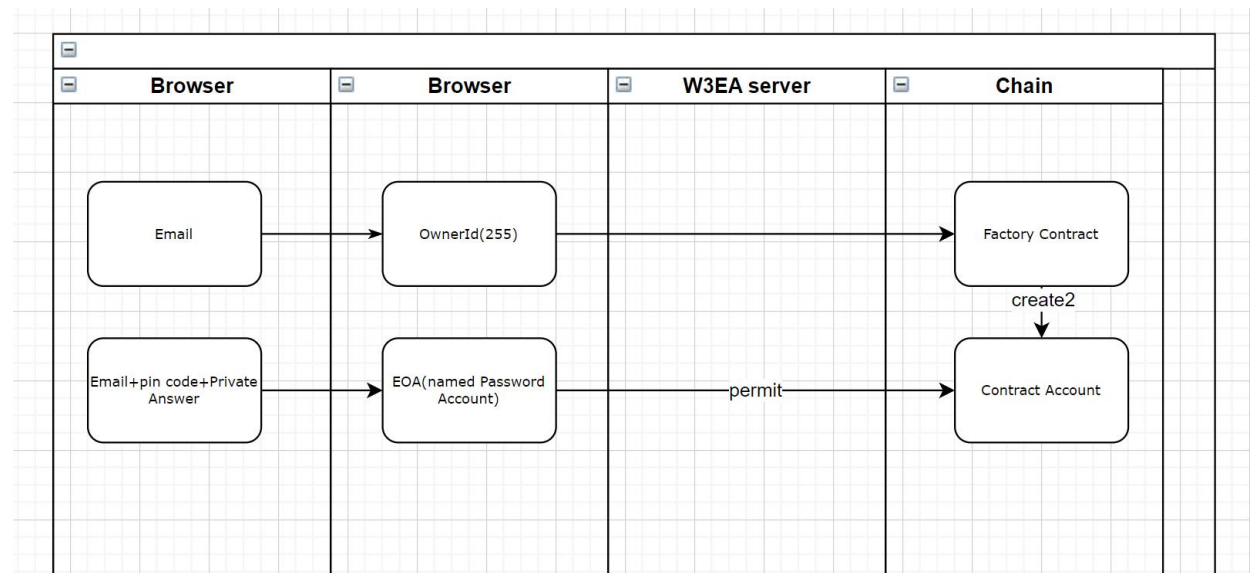
W3EA

<https://www.web3easyaccess.link/>

目标(Goal)

当前人们访问区块链世界时通常需要管理助记词或私钥，而助记词或私钥无法记忆，同时针对同一个账户，用户也无法修改密码，一旦助记词或私钥泄露，对应的账户将不再安全。通过本系统提供的服务，用户无需管理助记词或私钥，而是通过用户提供的私密信息对账户进行控制，同时保留“去中心化”的关键特性。在输入正确的私密信息的情况下，用户也可以对其现有的私密信息进行修改，达到传统意义上的“修改密码”功能

架构(Architecture)



如上图，在浏览器端，有两个环节（或两个部分）：

1. 一是根据用户的 email 派生出用户的 ownerId，当前最多支持 255 个；

2. 二是根据用户的 email 及私密信息派生出用于控制用户账户的 EOA 地址。同一个 email 下的多个合约账户共用一个 passwordAddr。

在应用服务器后端（W3EA server），接收用户的请求并使用专用入口 EOA 向区块链发起请求，包括：创建账户与发起交易。创建账户时，由链上的工厂合约为每个账户创建独立的合约。执行交易时，用户在浏览器端使用

passwordAddr 生成离线签名，然后后端服务器使用用户的离线签名代替用户发起交易。在每个独立的账户合约内对离线签名进行认证并执行后续交易。

私密信息的去中心化(Decentralization of users' private information)

1. 本系统仍然保有区块链产品的关键特点：“去中心化”，即本系统不存储用户的私密信息，副作用是用户一旦遗忘个人私密信息，将丢失对账户的控制权，且无法恢复。（在未来，当系统实现账户守护功能之后，则用户可以设置亲友地址，通过亲友账户找回账户）
2. 用户的邮箱无法用于找回密码。

用户的 GAS 费如何支付

- 发起交易时系统自动计算当前交易所需费用，并将费用作为参数传入用户合约，交易的同时直接将费用从用户的账户中扣除。
- 若发起交易后实际执行失败，则会造成系统资产损失（用户无损失）

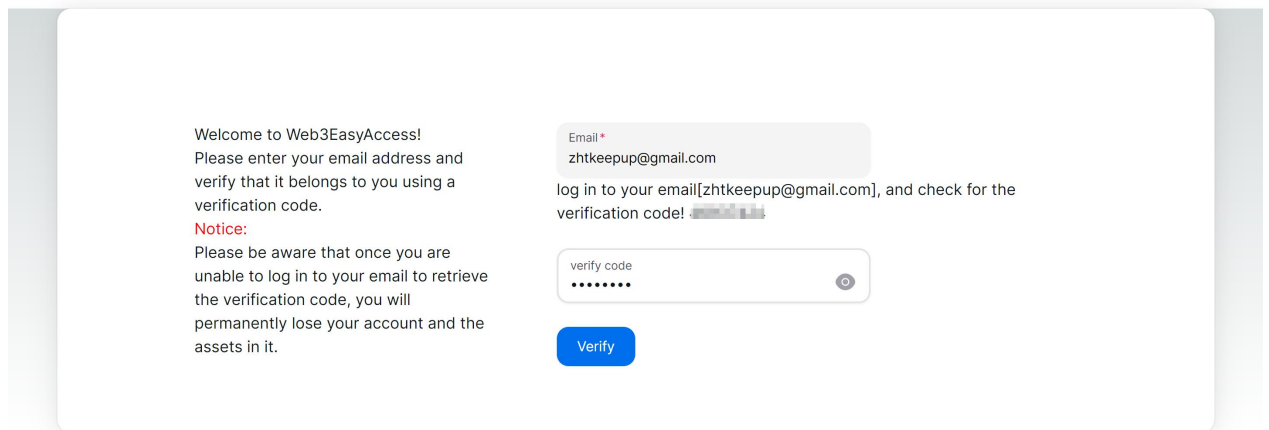
交互奖励设计

- W3EAP按交易奖励，随着时间推移，奖励乘数递减，直至变成 1.

未来功能计划 (roadmap)

1. 发起交易页面增加功能：转让 token、转让 NFT、自定义交易参数、对接 swap、内置 L2 与 L1 桥接
2. 增加账户守护功能
3. 对接更多链（EMV 及其他）
4. 资产增加按 U 计价
5. 增加其他资产用于支付 gas
6. 增加合约账户升级.

主要功能截图



Welcome to Web3EasyAccess!
Please enter your email address and verify that it belongs to you using a verification code.

Notice:
Please be aware that once you are unable to log in to your email to retrieve the verification code, you will permanently lose your account and the assets in it.

Email *
zhtkeepup@gmail.com

log in to your email[zhtkeepup@gmail.com], and check for the verification code! [REDACTED]

verify code
.....

Verify

z***p@g***m

TEST

1

d3A

0xd3A3....8573

0.0 ETH

1234500001

W3EAP

0.06 ETH

Free Gas Fee

TEST

1

TEST

1

TEST

1

Logout

A

Assets

T

Transactions

S

Send Transaction

P

Private Info

G

Guardian(Not Yet)

Tokens

NFTs

Bridge

Token Symbol	Token Address	Balance	Price	USD Value	Price Time
ETH	-	0	1000	0	2024-01-01 23:45:54

z***p@g***m

TEST

1

d3A

0xd3A3....8573

0.0 ETH

1234500001

W3EAP

0.06 ETH

Free Gas Fee

TEST

1

TEST

1

TEST

1

Logout

A

Assets

T

Transactions

S

Send Transaction

P

Private Info

G

Guardian(Not Yet)

Tokens

NFTs

Bridge

Token Symbol	Token Address	Balance	Price	USD Value	Price Time
ETH	-	0	1000	0	2024-01-01 23:45:54

Amount of gas fee that system pay for user

address's W3EAP token balance.
W3EAP: A token is system reward

Chains System Support

EVM Address

address's ETH Balance

User's Email

The Chain current chosen.
Number represent the count of accounts.

z***p@g***m

TEST

1

d3A

0xd3A3....8573

0.0 ETH

1234500001

W3EAP

0.06 ETH

Free Gas Fee

TEST

1

TEST

1

TEST

1

Logout

A

Assets

T

Transactions

S

Send Transaction

P

Private Info

G

Guardian(Not Yet)

Asset Transactions

All Transactions

From	To	Amount	Timestamp	Transaction Hash	Transaction Order	Gas Fee
------	----	--------	-----------	------------------	-------------------	---------

z***p@g***m

1

TEST

d3A

0xd3A3...8573

0.0 ETH

1234500001

W3EAP

0.06 ETH

Free Gas Fee

1

TEST

1

1

Anvil

Logout

A

Assets

T

Transactions

S

Send Transaction

P

Private Info

G

Guardian(Not Yet)

Send ETH

Send Token

Send NFT

Swap Token

Create Transaction

Bridge between Morph and Ethereum

Receiver Address

Enter your Receiver Address

Amount

Enter your Amount

PIN Code:

pin code

input private pin code

First Private Question:

Choose the first question

What is the name of the city where I was born? (Does not include its parent name)

first question's answer

input first question's answer

Second Private Question:

Choose the second question

What is the full name of the teacher who left the deepest impression on you during your

second question's answer

input second question's answer

Estimated Gas Cost:

0.0015678 ETH

☐ Add to Batch

sendETH

z***p@g***m

TEST

1

d3A

0xd3A3....8573

▼

0.0 ETH

1234500001

W3EAP

0.06 ETH

Free Gas Fee

TEST

1

TEST

1

TEST

1

Logout

A

Assets

T

Transactions

S

Send Transaction

P

Private Info

G

Guardian(Not Yet)

zhtkeepup@gmail.com

's Private information

Warning: The server does not store your personal information.

1. Once the personal information is forgotten, you will never be able to recover your accounts and assets

2. Once personal information is leaked, your account or assets may be stolen

You can fill in the new personal information for modification!

It will pay gas fee when you modify private info

PIN Code:

old PIN code

.....

⊙

pin code

input private pin code

⊙

pin code

input private pin code again

⊙

First Private Question:

old first question

What is the full name of the hospital where I was born?

▼

old first question's answer

.....

⊙

Choose the first question

What is the name of the city where I was born? (Does not include its parent name)

▼

first question's answer

.....

⊙

first question's answer

.....

⊙

Second Private Question:

old second question

▼

old second question's answer

input old second question's answer

⊙

Choose the second question

What is the full name of the teacher who left the deepest impression on you during your

▼

second question's answer

input second question's answer

⊙

second question's answer

input second question's answer again

⊙

The transaction of Private Info Modification will be sent to multiple selected chains

☒ MorphL2 Testnet

☒ Local Anvil

☒ Sepolia

Save To Chain