



# SPYWOLF

## Security Audit Report



Audit prepared for  
**Houdini Swap**

Completed on  
**October 9, 2024**

@SPYWOLFNETWORK



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SPYWOLF.CO





# OVERVIEW

This goal of this report is to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

- SPYWOLF Team -

”





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# Houdini Swap



## PROJECT DESCRIPTION:

### According to project's whitepaper:

We aggregate the best prices across every major source of liquidity sources to identify the cheapest route for every type of transaction we offer.

We are 100% non-custodial, meaning we never control your tokens throughout any part of the transaction process.

We also do not charge you fees, nor do we keep any discrepancy between quoted and realized prices should it occur.

**Release Date:** Feb 6th, 2024

**Launchpad:** Fairlaunch

**Category:** DeFi

01





# KEY RESULTS

Cannot mint new tokens	PASSED
Cannot pause trading (honeypot)	PASSED
Cannot blacklist an address	NOT PASSED
Cannot raise taxes over 25%?	PASSED
No proxy contract detected	PASSED
Not required to enable trading	PASSED
No hidden ownership	PASSED
Cannot change the router	PASSED
No cooldown feature found	PASSED
Bot protection delay is lower than 5 blocks	PASSED
Cannot set max tx amount below 0.05% of total supply	PASSED
The contract cannot be self-destructed by owner	PASSED

For a more detailed and thorough examination of the heightened risks, refer to the subsequent parts of the report.

N/A = Not applicable for this type of contract

\*Only new deposits/reinvestments can be paused



# CONTRACT INFO

Token Name	Symbol
Houdini Swap	LOCK
Contract Address	
0x922D8563631B03C2c4cf817f4d18f6883AbA0109	
Network	Language
Ethereum	Solidity
Deployment Date	Contract Type
Jan 31, 2024	Standard token
Total Supply	Decimals
100,000,000	18

## TAXES



\*Unioswap V3 1% pool



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



# SMART CONTRACT STATS

Calls Count	926
External calls	98
Internal calls	828
Transactions count	421
Last transaction time	2024-10-09 18:10:11 UTC
Deployment Date	2024-10-02 00:01:35 UTC
Create TX	0x54ea28c4b74e781acc080dd1a6272deb865bbb4d67e43f478bf9b8252321edfe
Owner	0xCf7c9510eB0Fa2113d6Dc07424162d3154af2594
Deployer	0xc93647e12eb38389d748f5ab04cd6ead0a22f973

# TOKEN TRANSFERS STATS

Transfer Count	34045
Total Amount	413926076.1228686 LOCK
Median Transfer Amount	1126.4195366519345 LOCK
Average Transfer Amount	12158.20461515255 LOCK
First transfer date	2024-01-31
Last transfer date	2024-10-09
Days token transferred	253 Days



# FEATURED WALLETS

Owner address	0xCf7c9510eB0Fa2113d6Dc07424162d3154af2594
Marketing fee receiver	0xCf7c9510eB0Fa2113d6Dc07424162d3154af2594
LP address	<b>Uniswap V3:</b> 0x7D45a2557bECd766A285d07a4701f5c64D716e2f  <b>LP Positions NFT Held by:</b> 0xCf7c9510eB0Fa2113d6Dc07424162d3154af2594 Gnosis Safe proxy multi sig wallet (same as owner)

## TOP 3 WALLETS

25.8%	Proxy contract 0x4401c51110e7d3a970Fe48AeaeE8249b181210a1
9.42%	Treasury private wallet 0x468753b683679999C53638b641327840C22d8b75
8.45%	Vesting contract 0x5A8a3B16B653FCa0d719cb9Dbb8AE3f32b91002B





# VULNERABILITY ANALYSIS

ID	Title	
SWC-100	Function Default Visibility	Passed
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	Passed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Reentrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed
SWC-116	Block values as a proxy for time	Passed
SWC-117	Signature Malleability	Passed
SWC-118	Incorrect Constructor Name	Passed



# VULNERABILITY ANALYSIS

ID	Title	
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed



# VULNERABILITY ANALYSIS

## NO ERRORS FOUND



# MANUAL CODE REVIEW

---

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time.

We categorize these vulnerabilities by 4 different threat levels.

## THREAT LEVELS

### High Risk

---

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

### Medium Risk

---

Issues on this level are critical to the smart contract's performance, functionality and should be fixed before moving to a live environment.

### Low Risk

---

Issues on this level are minor details and warning that can remain unfixed.

### Informational

---

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

**Code Score: 95%**



# FOUND THREATS

## High Risk: 0

No high risk-level threats found in this contract.

## Medium Risk: 0

No medium risk-level threats found in this contract.

## Low Risk: 1

1 low risk-level threat found in this contract.



# FOUND THREATS

## ⚠ Low Risk

Owner can add addresses to bot list (blacklist)..  
Blacklisted addresses cannot participate in token transfer/trading.

```
function setBots(address[] calldata accounts, bool value) public onlyOwner {
    for (uint256 i = 0; i < accounts.length; i++) {
        if (
            (!_automatedMarketMakerPair[accounts[i]]) &&
            (accounts[i] != address(swapRouter)) &&
            (accounts[i] != address(this)) &&
            (!_isExcludedFromLimits[accounts[i]])
        ) _setBots(accounts[i], value);
    }
}

function _setBots(address account, bool value) internal virtual {
    _isBot[account] = value;
    emit SetBots(account, value);
}

function _transfer(address from, address to, uint256 amount) internal virtual override {
    .....
    if (_isExcludedFromLimits[from] || _isExcludedFromLimits[to]) {
        super._transfer(from, to, amount);
        return;
    }

    require(!_isBot[from], "HoudiniSwapToken: bot detected");
    require(
        _msgSender() == from || !_isBot[_msgSender()],
        "HoudiniSwapToken: bot detected"
    );
    require(
        tx.origin == from ||
        tx.origin == _msgSender() ||
        !_isBot[tx.origin],
        "HoudiniSwapToken: bot detected"
    );
    .....
}
```

- Recommendation:
  - Considered as good practice is adding addresses to blacklist to be done in automated manner for limited time during first minutes after token's launch and/or based on reasonable criteria thereafter.



# FOUND THREATS

## Informational: 2

Owner can send tokens to multiple addresses at once (airdrop).

```
function airdrop(  
    address[] memory accounts,  
    uint256[] memory amounts  
) public onlyOwner {  
    require(  
        accounts.length == amounts.length,  
        "HoudiniSwapToken: Arrays must be the same length"  
    );  
    for (uint256 i = 0; i < accounts.length; i++) {  
        address account = accounts[i];  
        uint256 amount = amounts[i];  
        _transfer(_msgSender(), account, amount);  
        emit Airdrop(account, amount);  
    }  
}
```

Owner can launch the token only once. Trading cannot be stopped after token launch. Token is already launched.

```
function launch() public onlyOwner {  
    require(!launched, "HoudiniSwapToken: Already launched.");  
    IUniswapV3Factory uniswapV3Factory = IUniswapV3Factory(  
        swapRouter.factory()  
    );  
    address WETH9 = swapRouter.WETH9();  
    address uniswapV3Pool = uniswapV3Factory.getPool(  
        address(this),  
        WETH9,  
        10000  
    );  
    if (uniswapV3Pool == ZERO_ADDRESS) {  
        uniswapV3Pool = uniswapV3Factory.createPool(  
            address(this),  
            WETH9,  
            10000  
        );  
    }  
    _setAutomatedMarketMakerPair(address(uniswapV3Pool), true);  
    _ammProtectionEnabled = true;  
    launched = true;  
    emit Launch(block.number, block.timestamp);  
}
```



# FOUND THREATS

## Informational: 2

Owner can withdraw any tokens from the contract  
When this function is present, in cases tokens and ETH are sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function withdrawStuckTokens(address tkn) public onlyOwner {
    uint256 amount;
    if (tkn == ZERO_ADDRESS) {
        bool success;
        amount = address(this).balance;
        (success, ) = address(_msgSender()).call{value: amount}("");
    } else {
        amount = IERC20(tkn).balanceOf(address(this));
        require(amount > 0, "HoudiniSwapToken: No tokens");
        IERC20(tkn).safeTransfer(_msgSender(), amount);
    }
    emit WithdrawStuckTokens(tkn, amount);
}
```

Owner can withdraw any tokens from the contract  
Owner can exclude address from limits such as blacklist.

```
function excludeFromLimits(
    address[] calldata accounts,
    bool value
) public onlyOwner {
    for (uint256 i = 0; i < accounts.length; i++) {
        _excludeFromLimits(accounts[i], value);
    }
}

function _excludeFromLimits(address account, bool value) internal virtual {
    _isExcludedFromLimits[account] = value;
    emit ExcludeFromLimits(account, value);
}
```





# FOUND THREATS

## Informational: 2

Owner can add additional addresses to be treated as automated market maker (typically liquidity pools).

Already added automated market makers cannot be removed.

```
function setAutomatedMarketMakerPair(  
    address account,  
    bool value  
) public onlyOwner onlyContract(account) {  
    require(  
        !_automatedMarketMakerPair[account],  
        "HoudiniSwapToken: AMM Pair already set."  
    );  
    _setAutomatedMarketMakerPair(account, value);  
}  
  
function _setAutomatedMarketMakerPair(  
    address account,  
    bool value  
) internal virtual {  
    _automatedMarketMakerPair[account] = value;  
    emit SetAutomatedMarketMakerPair(account, value);  
}
```



The following tokenomics and initial tokens distribution are based on the project's whitepaper and/or website:

Tokenomics:

Holders - 32.49%,

Treasury - 30.19%,

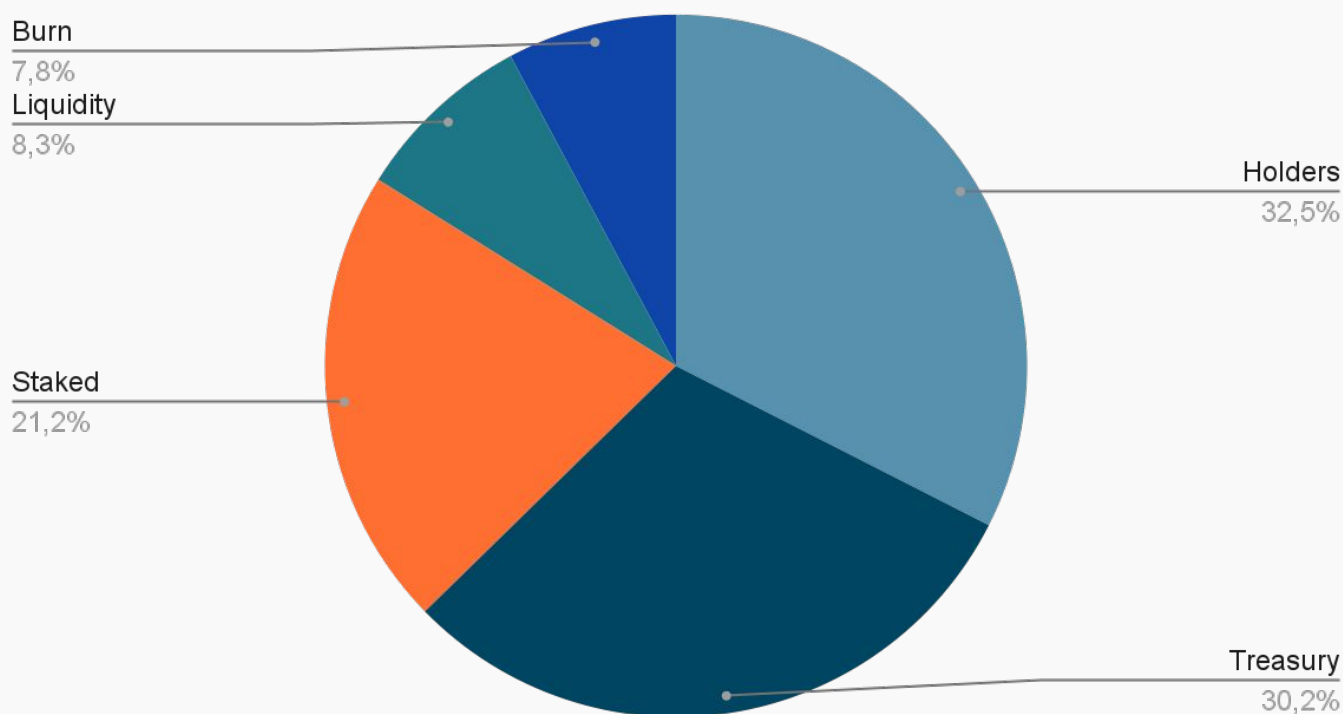
Staked - 21.21%,

Liquidity - 8.3%,

Burn - 7.81%,

## Tokens Distribution

Tokens distribution



TOKENOMICS



# WEBSITE

**Website URL:**  
<https://houdiniswap.com/>

**Domain Registry**  
<https://www.godaddy.com>

**Domain Expiration**  
2025-04-12

**Technical SEO Test**  
Passed

**Security Test**  
Passed. SSL certificate present

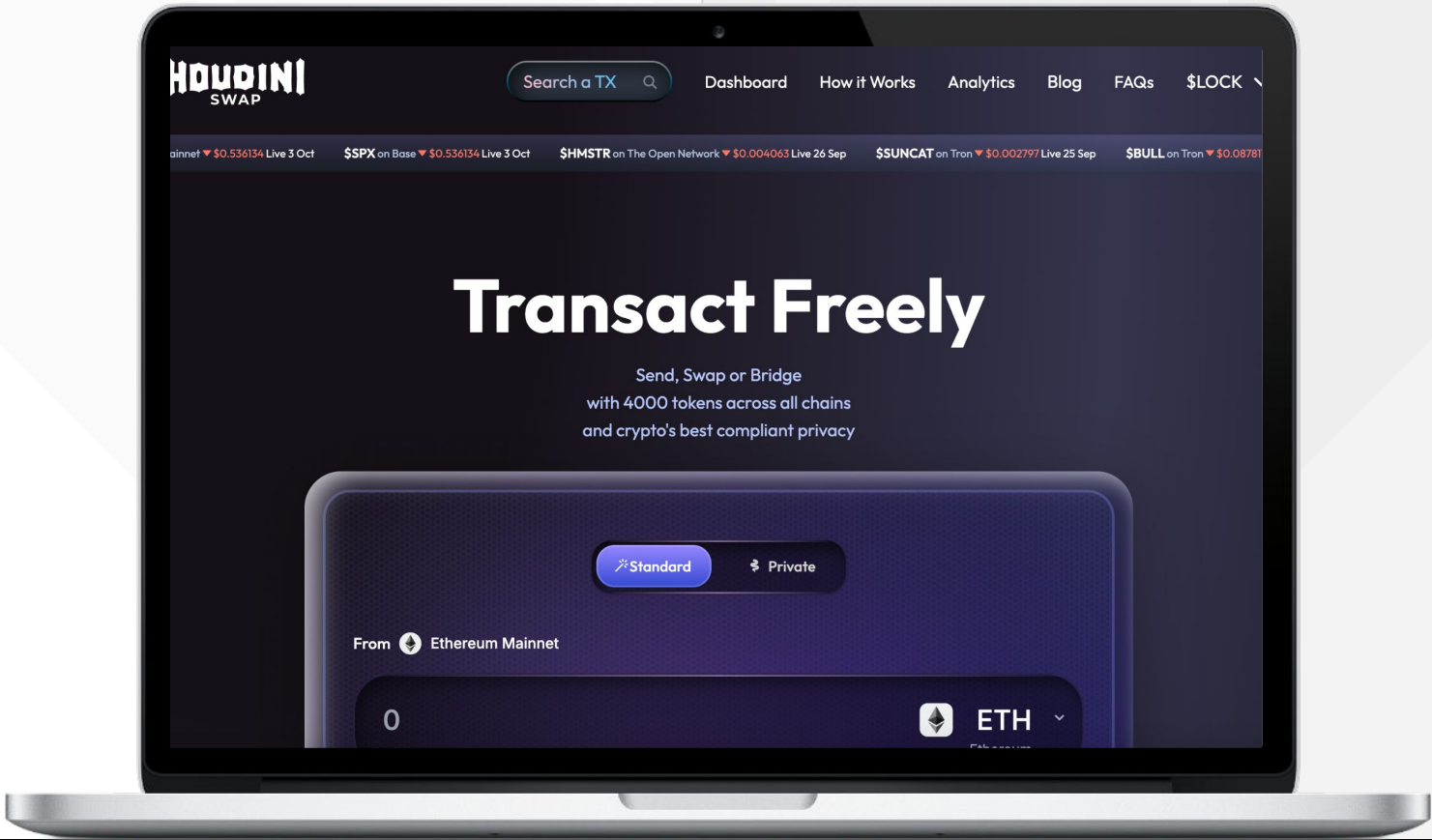
**Design**  
Very nice color scheme and overall layout.

**Content**  
The information helps new investors understand what the product does right away. No grammar mistakes found.

**Whitepaper**  
Well written, explanatory.

**Roadmap**  
Yes

**Mobile-friendly?**  
Yes



Website Score: 100%



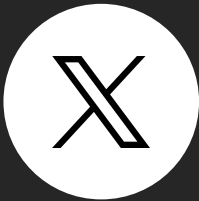
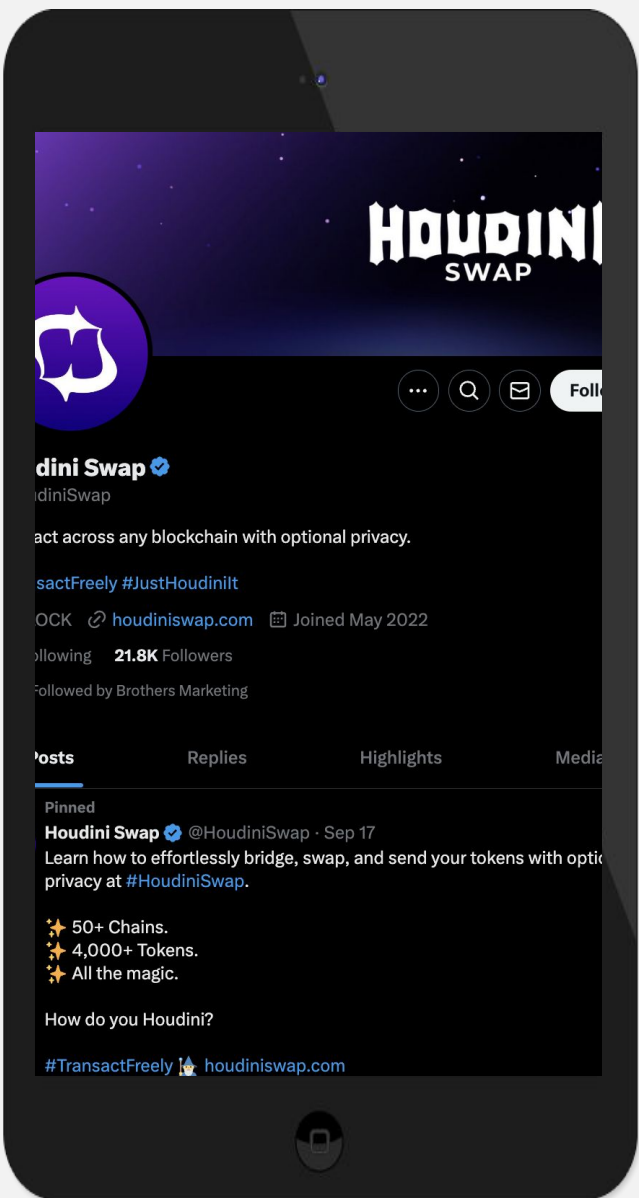
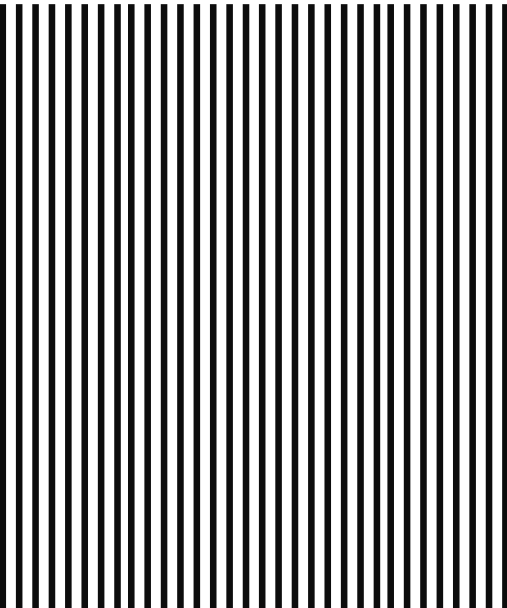
# SOCIAL MEDIA

Social Score: 100%



## ANALYSIS

Project's social media pages are active



Twitter:

@houdiniswap

- 21 900 followers
- Posts regularly
- Active



Discord

unavailable



Telegram:

@houdiniswap

- 5 021 members
- Active members
- Active mods



Medium

houdiniswap.medium.com

- 96 Followers
- 70+ articles
- Active



# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

# ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 700 SUCCESSFUL CLIENTS
- ✓ MORE THAN 1000 SCAMS EXPOSED
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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.

