



SPYWOLF

Security Audit Report



Audit prepared for
LiftOff

Completed on
December 17, 2024



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 -

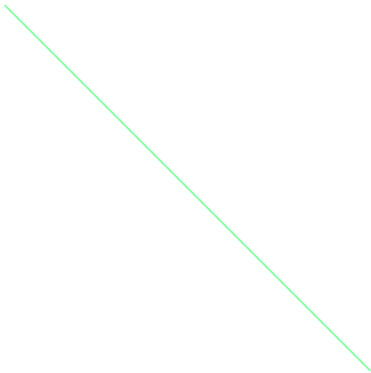
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KEY RESULTS

Cannot mint new tokens	PASSED
Cannot pause trading (honeypot)	PASSED
Cannot blacklist an address	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



LiftOff



PROJECT DESCRIPTION:

LiftOff.monster is a decentralized token launch platform designed to revolutionize the introduction and interaction of digital assets. It leverages blockchain technology to provide a fun, interactive, and innovative method for token creation and distribution, all within a transparent and secure environment. The platform caters to a broad range of users, from developers to community participants, offering opportunities for token discovery and engagement.

Release Date: TBD

Category: Token creator



LiquidityPool.sol INFO

Token Name
Unavailable

Symbol
Unavailable

Contract Address
Assigned on deployment via PoolFactory

Network
Vitruevo

Language
Solidity

Deployment Date
Unavailable

Contract Type
Liquidity pool

Total Supply
Unavailable

Decimals
Unavailable

TAXES

Buy Tax
1%

Sell Tax
1%

*Taxes cannot be changed



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



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.



FOUND THREATS

High Risk

No high risk-level threats found in this contract.

Medium Risk

No medium risk-level threats found in this contract.

Low Risk

No low risk-level threats found in this contract.



FOUND THREATS

Informational

Once liquidity is added to main DEX, the liquidity tokens receiver is factory contract's owner.

```
function transferToNewPool() external onlyOwner lock notMigrated {
    migrated = true;

    token.burn((realTokenBalance / 100) * 75);

    address router = factory.dexRouterAddress();
    uint256 tokenAmount = (realTokenBalance / 100) * 25;

    token.approve(router, tokenAmount);
    wvtru.approve(router, realCoinBalance);

    IPancakeRouter01(router).addLiquidity(
        address(wvtru), address(token), realCoinBalance,
        tokenAmount, 1, 1, factory.owner(), block.timestamp
    );

    _updateReserves();

    emit PoolTransferred();
}
```



PoolFactory INFO

Token Name Unavailable	Symbol Unavailable
Contract Address 0xd81B1450d502a844E1804F3fDa66E752f1EeE9e8	
Network Vitrueo	Language Solidity
Deployment Date Dec 14, 2024	Contract Type Liquidity pool factory
Total Supply Unavailable	Decimals Unavailable

TAXES



*One time tax is charged for creation of new liquidity pools. Current tax per liquidity pool creation is 9.98 wVRT. Creation tax can be changed in future.



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FOUND THREATS

Informational

Owner can set price for new tokens/LP contract creation.

```
function setContractPrice(uint256 _price) public onlyOwner returns (bool) {  
    require(_price > 0, "too low price");  
    contractPrice = _price;  
    return true;  
}
```



Token.sol INFO

Token Name Assigned by deployer	Symbol Assigned by deployer
Contract Address Assigned on deployment via PoolFactory	
Network Vitruevo	Language Solidity
Deployment Date Unavailable	Contract Type Standard token
Total Supply Assigned by deployer	Decimals 18

TAXES



*Taxes cannot be changed



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Low Risk

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FOUND THREATS

Informational

Owner can mint new tokens.

Since owner is the liquidity pool contract, and the mint functionality is used during token's deployment from the liquidity contract, no further tokens can be issued once the token is deployed.

```
function mint(address _to, uint256 _amount) public onlyOwner {  
    _mint(_to, _amount);  
}
```



WEBSITE

Website URL:

https://liftoff.monster

Domain Registry

Private

Domain Expiration

Private

Technical SEO Test

Passed

Security Test

Passed

Design

Very nice color scheme and overall design that attracts the user's attention.

Content

The content gives a good idea of what the project is about. No typos found.

Whitepaper

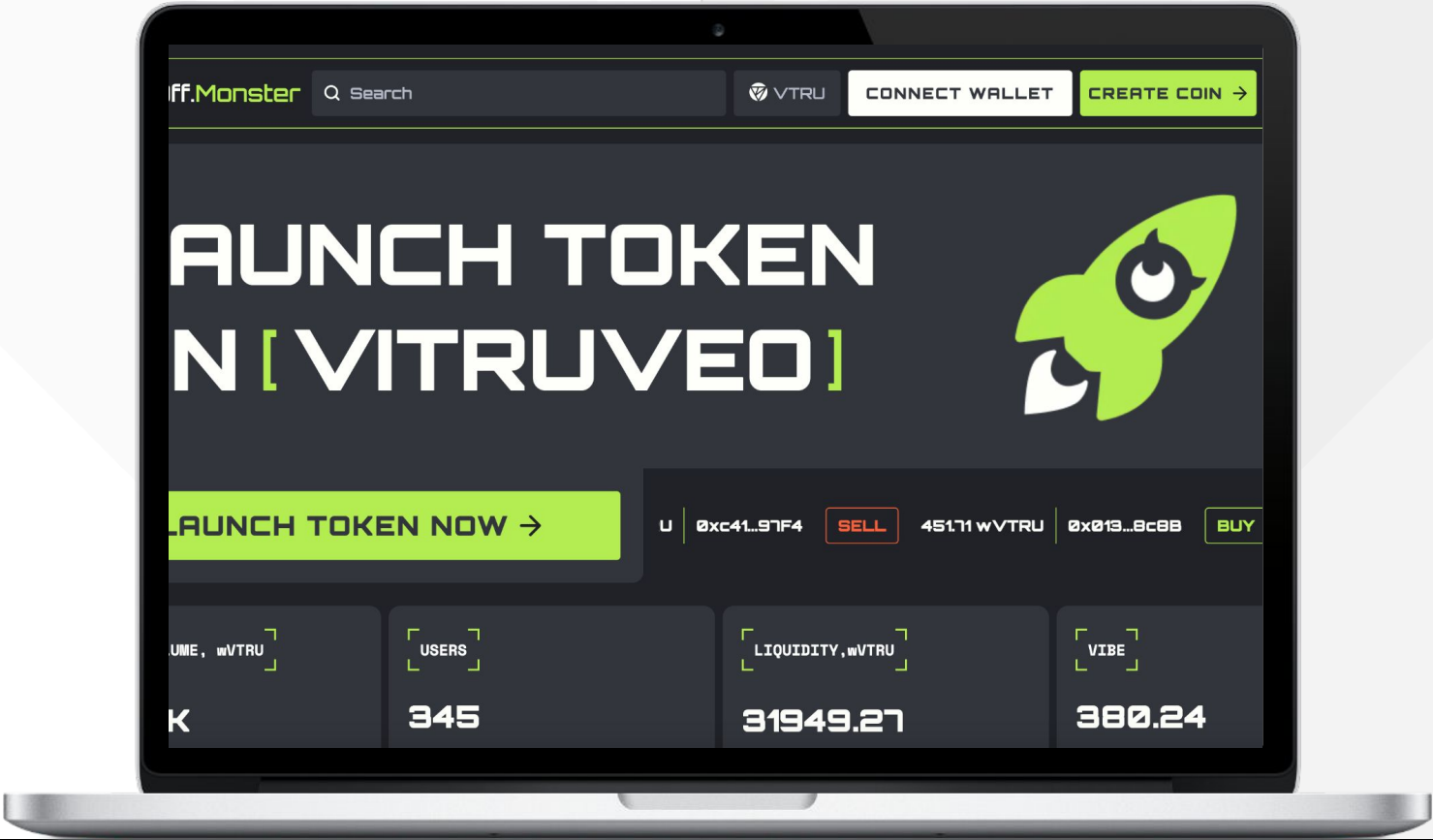
Yes

Roadmap

Yes

Mobile-friendly?

Yes



liftoff.monster

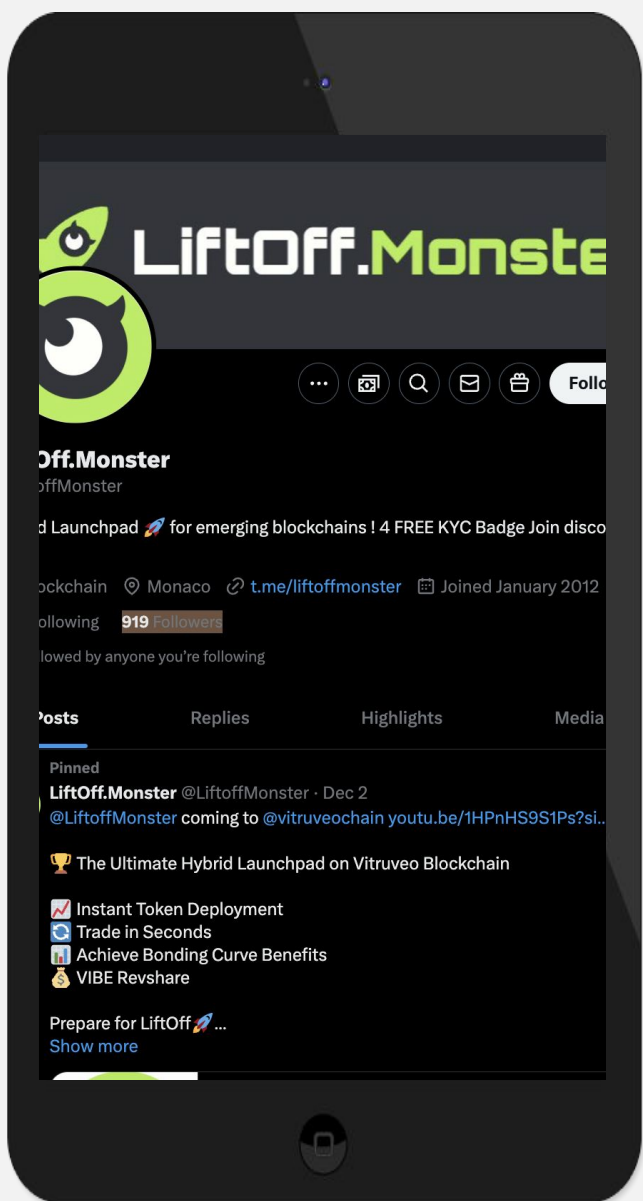
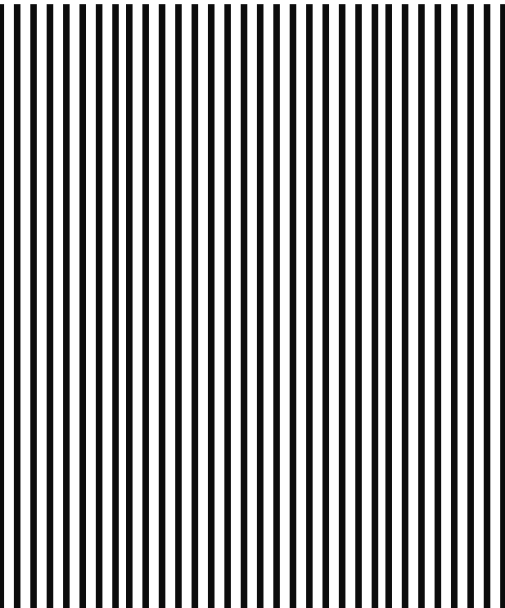


SOCIAL MEDIA



ANALYSIS

The project's social media pages are active with daily posts.



Twitter:

@liftoffmonster

- 919 Followers
- Daily posts



Discord

@qTMEMCC8fZ

- 1346 members



Telegram:

@liftoffmonster

- 1 513 members
- Active members and mods



Medium

Unavailable



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.

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- ✓ MORE THAN 1000 SCAMS EXPOSED
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- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
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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.

