



SPYWOLF

Security Audit Report



Audit prepared for
Cat Token

Completed on
October 15, 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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CAT TOKEN



PROJECT DESCRIPTION:

According to their website:

Catmeme is a cat theme token that focuses on community decentralization and adoption. \$CAT is designed to make memeCoins great again. \$CAT is for the people, always. Fueled by pure meme power, \$CAT will lead the way.

Release Date: October 16, 2024

Launchpad: Pinksale

Category: Meme





KEY RESULTS

Cannot mint new tokens	PASSED
Cannot pause trading (honeypot)	*
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

*Contract may halt if it's cat balances are fraction of a token. When auoswap occurs with fraction of a token if value is less than 5 wei contract may halt. If this happen, it can be solved by sending 1 CAT token to the contract.



CONTRACT INFO

Token Name
Cat Token

Symbol
CAT

Contract Address
0x5971f6eCF4092824ed8229154d97c21317A04764

Network
BSC

Language
Solidity

Deployment Date
Oct 15, 2024

Contract Type
Standard token

Total Supply
420,000,000,000

Decimals
9

TAXES

Buy Tax
5%

Sell Tax
5%

*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



SMART CONTRACT STATS

Calls Count	8
External calls	4
Internal calls	4
Transactions count	5
Last transaction time	2024-10-15 14:53:58 UTC
Deployment Date	2024-10-15 14:34:28 UTC
Create TX	0xca9faa5026f9b1e14074b6ad73c2655b92797a0a586ae911a7ada1a25507bb05
Owner	0x6a983474e35daf0d5ec54ae4a5436ccc7a3df995
Deployer	0x6a983474e35daf0d5ec54ae4a5436ccc7a3df995

TOKEN TRANSFERS STATS

Transfer Count	3
Total Amount	840000000000 CAT
Median Transfer Amount	247501674000 CAT
Average Transfer Amount	280000000000 CAT
First transfer date	2024-10-15
Last transfer date	2024-10-15
Days token transferred	1 Day



FEATURED WALLETS

Owner address	0x6a983474e35daf0d5ec54ae4a5436ccc7a3df995
Marketing fee receiver	0x2c5ee2C6E7dFacAc097233f75fE61DDBed923B91 0x1bc32b76083D629f6A9bfB2aacd08da9227d566a
LP address	Pancakeswap: 0x73f25aD812d6abD5cd90234a627A7Eb96FEf90F9 Liquidity is not added yet

TOP 3 UNLOCKED WALLETS

unavailable	
unavailable	
unavailable	



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: 85%



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

No low risk-level threats found in this contract.



FOUND THREATS

⚠ Low Risk

At time of the audit, marketing and buyback addresses are EOA and not contracts.

Marketing and buyback addresses cannot be changed from the contract's owner.

However, `sendValue()` function requires `.call` be to successful.

If in future, marketing and buyback addresses become contracts that cannot receive BNB, contract may halt.

`.call()` will fail if attempt is made to send BNB from fees to address that cannot receive BNB as it requires the attempt to be successful.

```
function _swapAndTransferFee(uint256 feeAmount, uint256 _tradingFee) private {
    _swapForETH(feeAmount);

    uint256 amount = address(this).balance;
    uint256 amountMkt = amount.mul(rewardMkt).div(_tradingFee);
    uint256 amountBuyBack = amount.sub(amountMkt);

    payable(marketing).sendValue(amountMkt);
    payable(BuyBack).sendValue(amountBuyBack);
}

function sendValue(address payable recipient, uint256 amount) internal {
    require(
        address(this).balance >= amount,
        "Address: insufficient balance"
    );

    (bool success, ) = recipient.call{value: amount}("");
    require(
        success,
        "Address: unable to send value, recipient may have reverted"
    );
}
```



FOUND THREATS

Informational: 1

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function excludeFromFee(address account, bool isExcluded) public onlyOwner {  
    require(isExcludedFromFee[account] != isExcluded, "The wallet is already has that value.");  
    isExcludedFromFee[account] = isExcluded;  
    emit excludeStatus(account, isExcluded);  
}
```



The following tokenomics are based on the project's Pinksale page:

Tokenomics:

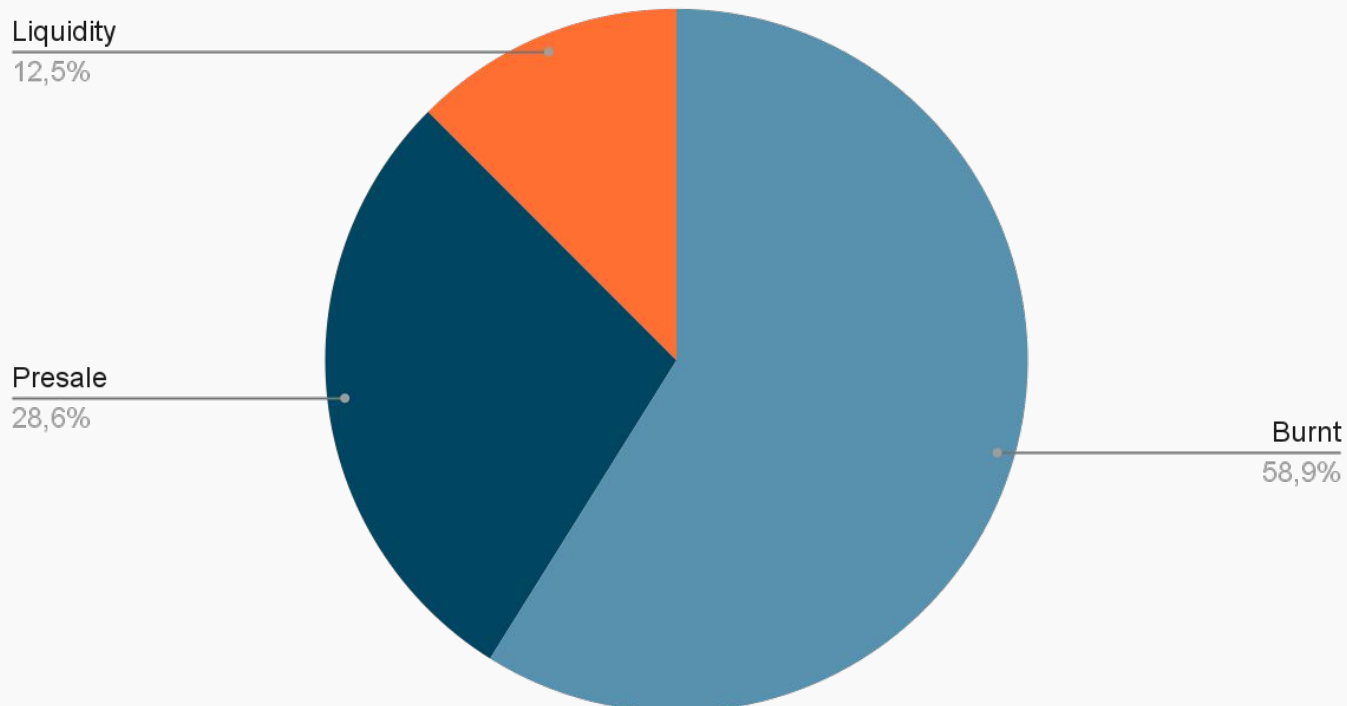
Burnt - 58.9%,

Presale - 28.6%,

Liquidity - 12.5%,

Token Distribution

Tokens distribution



TOKENOMICS



WEBSITE

Website URL:

<https://catmeme.finance/>

Domain Registry

<http://www.namecheap.com>

Domain Expiration

2025-10-11

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design with appropriate color scheme and graphics.

Content

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

Whitepaper

No

Roadmap

Yes, goals set without time frames.

Mobile-friendly?

Yes



Website Score: 100%



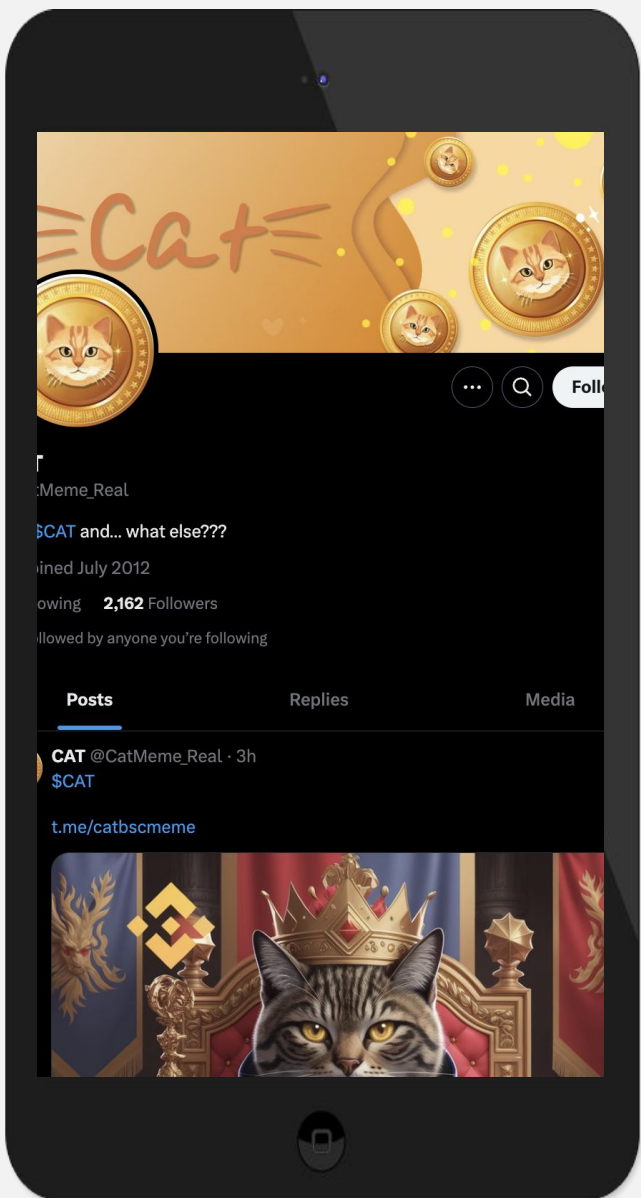
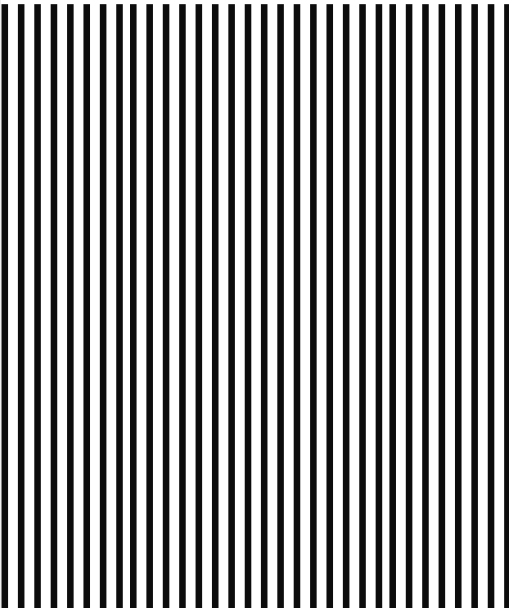
SOCIAL MEDIA

Social Score: 100%



ANALYSIS

Project's social media pages are active



Twitter:

@catmeme_real

- 2 163 followers
- Posts frequently
- Active



Discord

Unavailable



Telegram:

@catbscmeme

- 762 members
- Active members
- Active mods



Medium

Unavailable



SPYWOLF

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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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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.

