



RugFreeCoins Audit



Chisai Doge Token Audit
Smart Contract Security Audit
August 07, 2021

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Audit details



Audited project

Chisai Doge Token



Contract Address

0x3c25fe68ba725c0dde20cb7ab9fa6ec7b3ed83cb



Client contact

Chisai Doge Team



Blockchain

Binance smart chain



Project website

<https://chisaidoge.com/>

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the 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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Background

Rugfreecoins was commissioned by Chisai Doge to perform an audit of the smart contract.

<https://bscscan.com/token/0x3c25fe68ba725c0dde20cb7ab9fa6ec7b3ed83cb>

The focus of this audit is to verify that the smart contract is secure, resilient and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, long term sustainability and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

About the project

Chisai DogeCoin is a BEP20 token launched on the Binance Blockchain July 19th, 2021 to be a meme project for the community by the community. Chisai's mission is to give back by donating to those in need through reputable charity organizations across the world to make the world a better place through humanitarianism. Each transaction incurs a 10% fee when buying and selling.

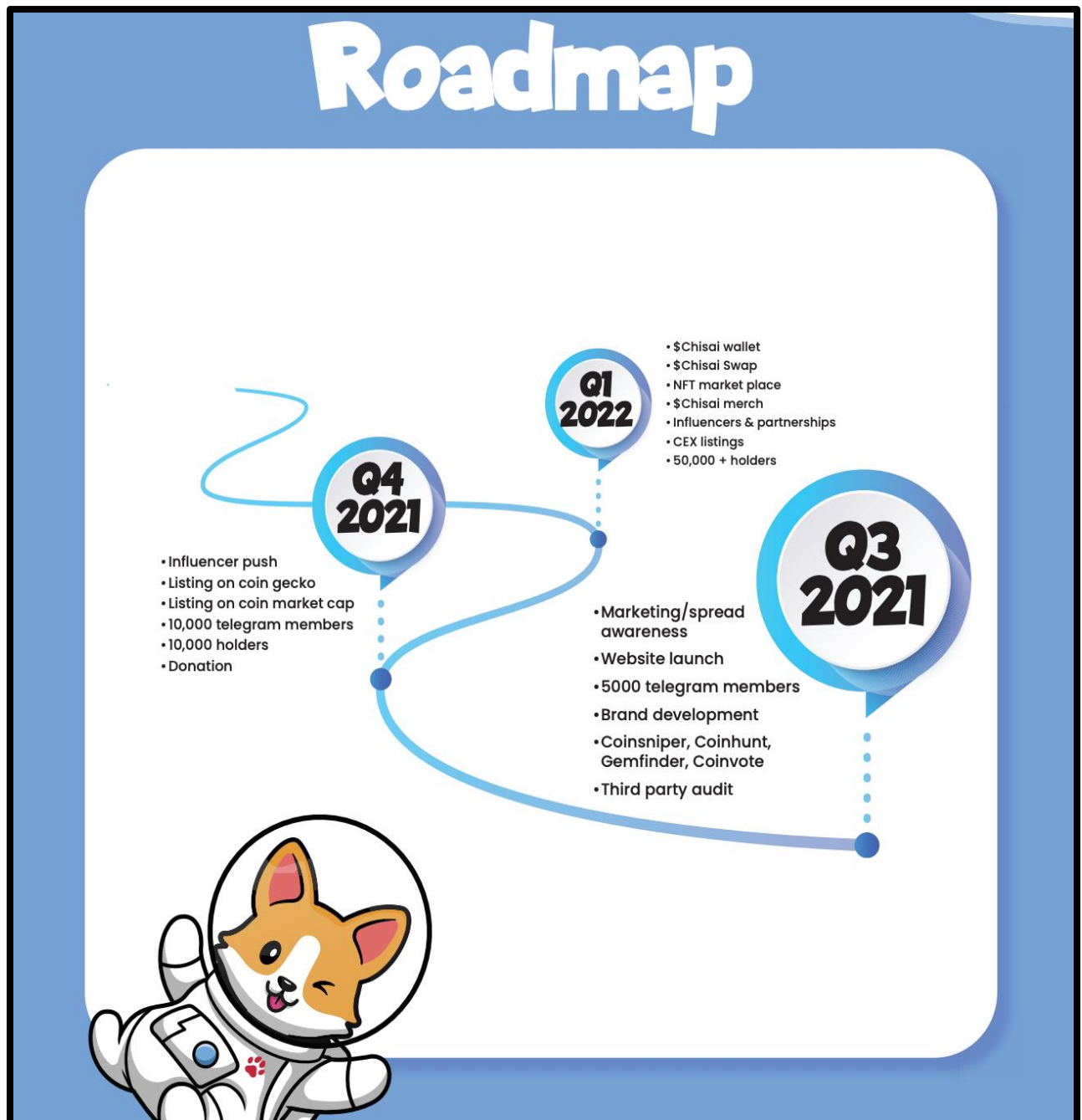
Features:

- ❖ The **automatic token reward of 4%** will be distributed among every holder proportional to how many tokens each individual holds.
- ❖ The burn fee of 2% per transaction will be sent to the burn wallet, where the total supply in circulation will be reduced by keeping the market price stable.
- ❖ The **sustainability fee of 4% marketing and charity** is what allows Chisai Doge to hold the aforementioned promise. Tokens will be swapped into BNBs and will be sent to a marketing wallet per transaction. This way, Chisai Doge will have enough funds for charity and to promote the coin and spend for future development without selling tokens as the traditional way.

Tokenomics

10% tax fee when buying and selling

- 4% of every trade goes to holders pockets in tokens.
- 4% of every trade goes to the marketing wallet.
- 2% of every trade goes to the burn wallet.



Target market and the concept

Target market

- ❖ Anyone who's interested in Crypto space with long term investment plans.
- ❖ Anyone who's ready to earn a passive income by holding tokens.
- ❖ Anyone who's interested in trading tokens.
- ❖ Anyone who's interested in supporting a good cause. (Charity)
- ❖ Anyone who's interested in taking part with Chisai Doge future plans.
- ❖ Anyone who's interested in making financial transactions with any other party using **Chisai Doge** as the currency.

Core concept

The reward system

4% of each transaction when buying and selling gets sent amongst all holders in tokens. The holders will be eligible to receive tokens, whenever a transaction occurs, and rewards are proportional to how many tokens each individual holds.

Sustainable mechanism

2% of each transaction when buying and selling is getting burnt, where the total supply in circulation is getting reduced with the time, which is able to keep the market price stable.

The fee of 4% marketing and charity is what allows Chisai Doge to use them for charity and to promote the token and use funds to further development of the platform. Tokens will be swapped into BNBs and will be sent to a marketing wallet per transaction. This way, Daddy will have access to the funds without selling tokens as the traditional way, which will enable them to consume funds without hurting the project.

Anti-whale strategy

The Chisai Doge contract includes a function that stops anyone holding more than 10 trillion tokens. This keeps investors safe from large dumps.

Future Plan

CHISAI SWAP

Chisai SWAP will be a decentralized exchange where users can swap any BEP20 token for another. Chisai Team also plans to add further functionality to ensure the platform is unique in the marketplace.

CHISAI DOGE WALLET

To assist the development of Chisai SWAP, the team is planning to develop a Chisai Wallet which will further provide holders advanced security features to ensure their coins are safe allowing users to spend, receive and trade with peace of mind.

CHISAI APPAREL

High quality merchandise to differentiate from other meme coins which holders can pay using cryptocurrency. The proceeds support further Chisai DogeCoin development and charities.

Potential to grow with score points

1.	Project efficiency	7/10
2.	Project uniqueness	6/10
3	Information quality	6/10
4	Service quality	7/10
5	System quality	7/10
6	Impact on the community	7/10
7	Impact on the business	7/10
8	Preparing for the future	6/10
Total Points		6.63/10

Contract details

Token contract details for 07th August 2021

Contract name	Chisai Doge Token
Contract address	0x3c25fe68ba725c0dde20cb7ab9fa6ec7b3ed83cb
Token supply	961,539,483,378,112.27
Token ticker	Chisai Doge
Decimals	9
Token holders	486
Transaction count	2,679
Top 100% holders dominance	75.48%
Marketing address	0x5b40fd0ca37d592bc7e197ca07b12e0c711ff429
Contract deployer address	0x852E13a2fb682A96130FFceD444d31262d5C7b87
Contract's current owner address	0x00

Top token holders

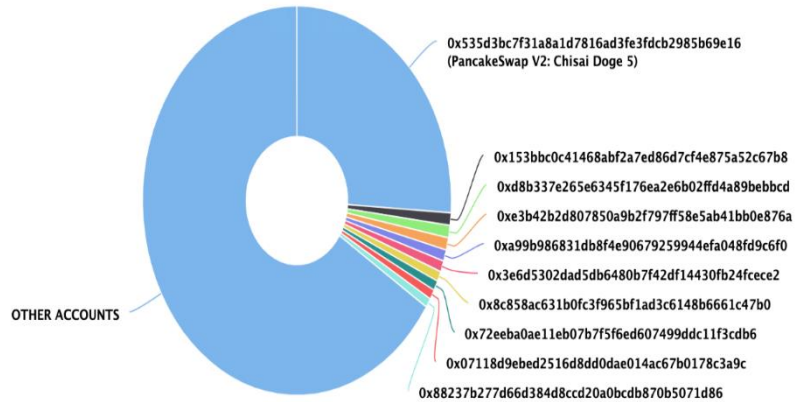
Top 10 Token Holders

The top 10 holders collectively own 34.19% (328,782,626,252,969.00 Tokens) of Chisai Doge


Token Total Supply: 961,503,668,487,099.26 Token | Total Token Holders: 490

Chisai Doge Top 10 Token Holders

Source: BscScan.com



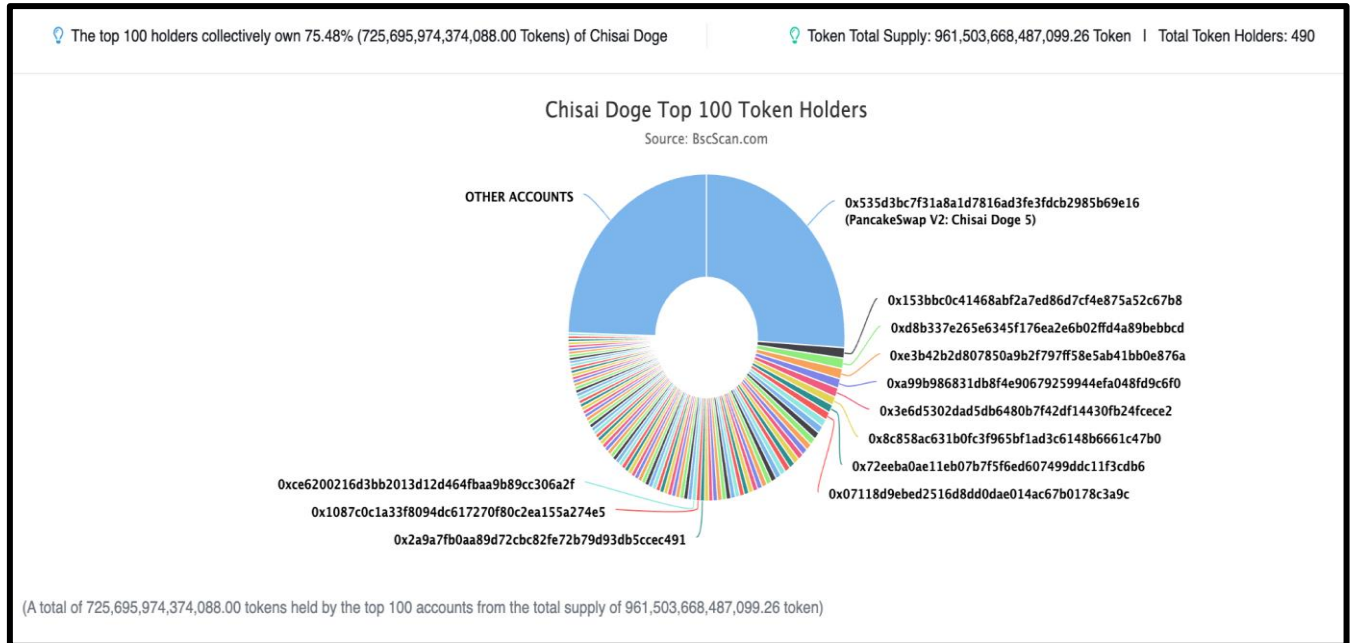
(A total of 328,782,626,252,969.00 tokens held by the top 10 accounts from the total supply of 961,503,668,487,099.26 token)

Rank	Address	Quantity (Token)	Percentage
1	 PancakeSwap V2: Chisai Doge 5	249,988,016,947,682.717990466	25.9997%
2	0x153bbc0c41468abf2a7ed86d7cf4e875a52c67b8	9,999,294,966,300.635640144	1.0400%
3	0xd8b337e265e6345f176ea2e6b02ffd4a89bebbcd	9,993,132,354,421.546288762	1.0393%
4	0xe3b42b2d807850a9b2f797ff58e5ab41bb0e876a	9,786,020,282,080.476044886	1.0178%
5	0xa99b986831db8f4e90679259944efa048fd9c6f0	9,000,022,256,987.036963325	0.9360%
6	0x3e6d5302dad5db6480b7f42df14430fb24fcede2	8,768,503,497,240.247736087	0.9120%
7	0x8c858ac631b0fc3f965bf1ad3c6148b6661c47b0	8,200,438,442,172.970072828	0.8529%
8	0x72eeba0ae11eb07b7f5f6ed607499ddc11f3cdb6	7,822,724,415,906.610956098	0.8136%
9	0x07118d9ebd2516d8dd0dae014ac67b0178c3a9c	7,732,936,548,698.93006873	0.8043%
10	0x88237b277d66d384d8ccd20a0bcdb870b5071d86	7,491,536,541,477.323867086	0.7791%

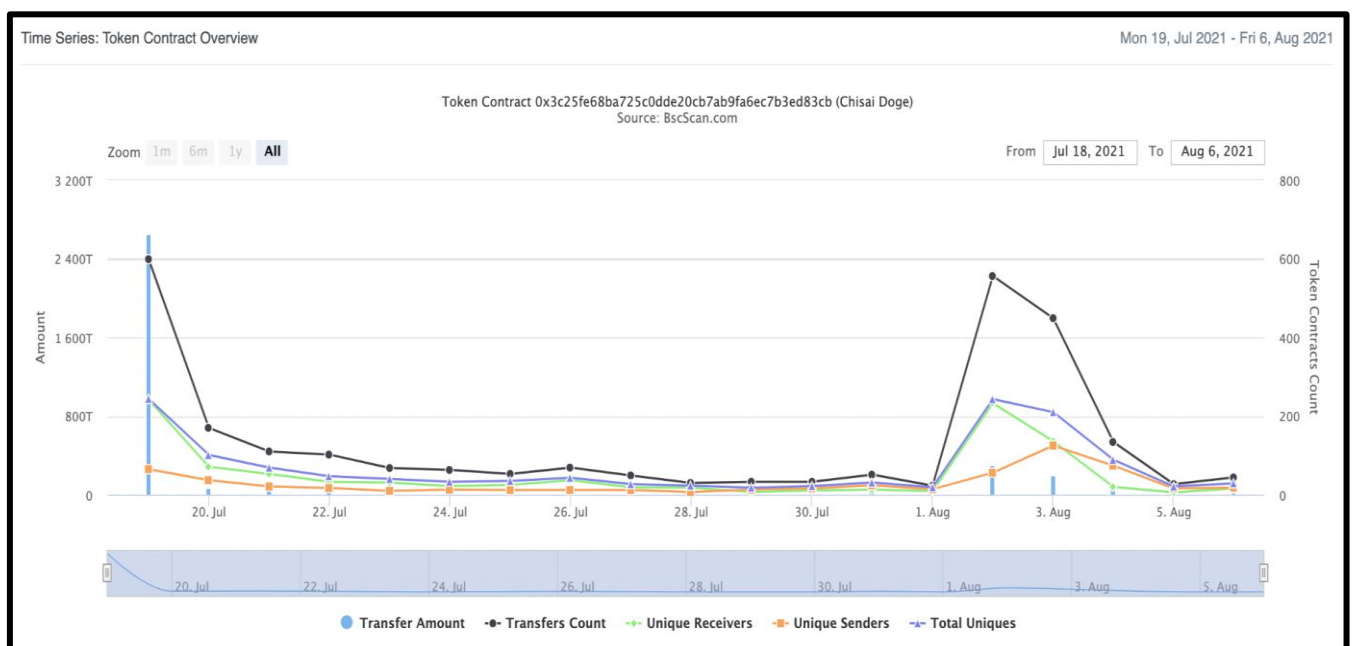
Token distribution

Tokens are distributed as follows:

Top 100 Token Holders



Contract interaction details































































Contract code function details








No	Category	Item	Result
1	Coding conventions	BRC20 Token standards	pass
		compile errors	pass
		Compiler version security	pass
		visibility specifiers	pass
		Gas consumption	pass
		SafeMath features	pass
		Fallback usage	pass
		tx.origin usage	pass
		deprecated items	pass
		Redundant code	pass
		Overriding variables	pass
2	Function call audit	Authorization of function call	pass
		Low level function (call/delegate call) security	pass
		Returned value security	pass
		Selfdestruct function security	pass
3	Business security	Access control of owners	pass
		Business logics	pass
		Business implementations	pass
4	Integer overflow/underflow		pass
5	Reentrancy		pass
6	Exceptional reachable state		pass
7	Transaction ordering dependence		pass
8	Block properties dependence		pass
9	Pseudo random number generator (PRNG)		pass
10	DoS (Denial of Service)		pass
11	Token vesting implementation		pass
12	Fake deposit		pass
13	Event security		pass


























































Contract description table




































Below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions and implementations with its visibility and mutability.





















































Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	Internal 		
IERC20	Interface			
L	totalSupply	External 		NO 
L	balanceOf	External 		NO 
L	transfer	External 		NO 
L	allowance	External 		NO 
L	approve	External 		NO 
L	transferFrom	External 		NO 
SafeMath	Library			
L	add	Internal 		
L	sub	Internal 		
L	sub	Internal 		
L	mul	Internal 		
L	div	Internal 		
L	div	Internal 		
L	mod	Internal 		







































L	mod	Internal 		
Address	Library			
L	isContract	Internal 		
L	sendValue	Internal 		
L	functionCall	Internal 		
L	functionCall	Internal 		
L	functionCallWithV alue	Internal 		
L	functionCallWithV alue	Internal 		
L	_functionCallWith Value	Private 		
Ownable	Implementation	Context		
L		Internal 		
L	owner	Public 		NO 
L	renounceOwnershi p	Public 		onlyOwner
L	transferOwnership	Public 		onlyOwner
L	getUnlockTime	Public 		NO 
L	getTime	Public 		NO 
IUniswapV2Factory	Interface			
L	feeTo	External 		NO 
L	feeToSetter	External 		NO 
L	getPair	External 		NO 
L	allPairs	External 		NO 
L	allPairsLength	External 		NO 







L	createPair	External ¶		NO¶
L	setFeeTo	External ¶		NO¶
L	setFeeToSetter	External ¶		NO¶
IUniswapV2Pair	Interface			
L	name	External ¶		NO¶
L	symbol	External ¶		NO¶
L	decimals	External ¶		NO¶
L	totalSupply	External ¶		NO¶
L	balanceOf	External ¶		NO¶
L	allowance	External ¶		NO¶
L	approve	External ¶		NO¶
L	transfer	External ¶		NO¶
L	transferFrom	External ¶		NO¶
L	DOMAIN_SEPARATOR	External ¶		NO¶
L	PERMIT_TYPEHASH	External ¶		NO¶
L	nonces	External ¶		NO¶
L	permit	External ¶		NO¶
L	MINIMUM_LIQUIDITY	External ¶		NO¶
L	factory	External ¶		NO¶
L	token0	External ¶		NO¶
L	token1	External ¶		NO¶
L	getReserves	External ¶		NO¶
L	price0CumulativeLast	External ¶		NO¶

L	price1CumulativeLast	External 		NO 
L	kLast	External 		NO 
L	burn	External 		NO 
L	swap	External 		NO 
L	skim	External 		NO 
L	sync	External 		NO 
L	initialize	External 		NO 
IUniswapV2Router01	Interface			
L	factory	External 		NO 
L	WETH	External 		NO 
L	addLiquidity	External 		NO 
L	addLiquidityETH	External 		NO 
L	removeLiquidity	External 		NO 
L	removeLiquidityETH	External 		NO 
L	removeLiquidityWithPermit	External 		NO 
L	removeLiquidityETHWithPermit	External 		NO 
L	swapExactTokensForTokens	External 		NO 
L	swapTokensForExactTokens	External 		NO 
L	swapExactETHForTokens	External 		NO 
L	swapTokensForExactETH	External 		NO 
L	swapExactTokensForETH	External 		NO 



L	swapETHForExactTokens	External 		NO 
L	quote	External 		NO 
L	getAmountOut	External 		NO 
L	getAmountIn	External 		NO 
L	getAmountsOut	External 		NO 
L	getAmountsIn	External 		NO 
IUniswapV2Router02	Interface	IUniswapV2Router01		
L	removeLiquidityETHSupportingFeeOnTransferTokens	External 		NO 
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External 		NO 
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External 		NO 
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External 		NO 
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External 		NO 
ChisaiDoge	Implementation	Context, IERC20, Ownable		
L		Public 		NO 
L	setWalletlimit	External 		onlyOwner
L	name	Public 		NO 

L	symbol	Public 		NO 
L	decimals	Public 		NO 
L	totalSupply	Public 		NO 
L	balanceOf	Public 		NO 
L	transfer	Public 		NO 
L	allowance	Public 		NO 
L	approve	Public 		NO 
L	transferFrom	Public 		NO 
L	increaseAllowance	Public 		NO 
L	decreaseAllowance	Public 		NO 
L	isExcludedFromReward	Public 		NO 
L	totalFees	Public 		NO 
L	totalBurn	Public 		NO 
L	minimumTokensBeforeSwapAmount	Public 		NO 
L	deliver	Public 		NO 
L	reflectionFromToken	Public 		NO 
L	tokenFromReflection	Public 		NO 
L	excludeFromReward	Public 		onlyOwner
L	includeInReward	External 		onlyOwner
L	_approve	Private 		
L	_transfer	Private 		
L	swapAndLiquify	Private 		lockTheSwap
L	swapTokensForEth	Private 		

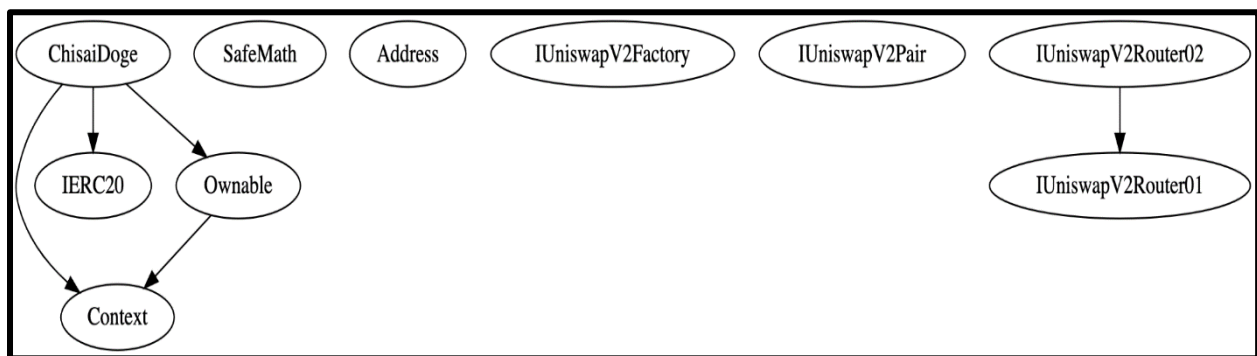
L	_tokenTransfer	Private 		
L	_transferStandard	Private 		
L	_transferToExcluded	Private 		
L	_transferFromExcluded	Private 		
L	_transferBothExcluded	Private 		
L	_reflectFee	Private 		
L	_getValues	Private 		
L	_getTValues	Private 		
L	_getRValues	Private 		
L	_getRate	Private 		
L	_getCurrentSupply	Private 		
L	_takeLiquidity	Private 		
L	calculateTaxFee	Private 		
L	calculateBurnFee	Private 		
L	calculateLiquidityFee	Private 		
L	removeAllFee	Private 		
L	restoreAllFee	Private 		
L	isExcludedFromFee	Public 		NO 
L	excludeFromFee	Public 		onlyOwner
L	includeInFee	Public 		onlyOwner
L	setTaxFeePercent	External 		onlyOwner
L	setBurnFeePercent	External 		onlyOwner
L	setDonationFeePercent	External 		onlyOwner

L	setMaxTxPercent	External !		onlyOwner
L	setNumTokensSell ToAddToLiquidity	External !		onlyOwner
L	setSwapAndLiquifyEnabled	Public !		onlyOwner
L	TransferMarketing ETH	Private 		
L		External !		NO!

Legend

Symbol	Meaning
	Function can modify state
	Function is payable

Inheritance Hierarchy



Security issue checking status

❖ High severity issues

No medium severity issues found.

❖ Medium severity issues

No medium severity issues found.

❖ Low severity issues

_donationFee name is misleading

Donation fee variable value is used to take marketing fee and there is no donation happening in the contract. Hence, the variable name should be marketing Fee.

Owner privileges

Ownership has been renounced and the owner doesn't have any privileges and has no authority to make any changes now.

Ownership privileges owner had

- ❖ The owner can transfer and renounce the ownership.

```
ftrace | funcSig
function renounceOwnership() public virtual onlyOwner {
    emit OwnershipTransferred(_owner, address(0));
    _owner = address(0);
}

ftrace | funcSig
function transferOwnership(address newOwner) public virtual onlyOwner {
    require(newOwner != address(0), "Ownable: new owner is the zero address");
    emit OwnershipTransferred(_owner, newOwner);
    _owner = newOwner;
}
```

- ❖ The owner can change the max wallet limit.

```
ftrace | funcSig
function setWalletLimit(uint256 _walletLimit) external onlyOwner() {
    walletLimit = _walletLimit;
}
```

- ❖ The owner can include/exclude wallets from rewards.

```
ftrace | funcSig
function excludeFromReward(address account) public onlyOwner() {
    // require(account != 0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D, 'We can not exclude Uniswap router.');
```

```
    require(!_isExcluded[account], "Account is already excluded");
    if(_rOwned[account] > 0) {
        _tOwned[account] = tokenFromReflection(_rOwned[account]);
    }
    _isExcluded[account] = true;
    _excluded.push(account);
}

ftrace | funcSig
function includeInReward(address account) external onlyOwner() {
    require(!_isExcluded[account], "Account is already excluded");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account) {
            _excluded[i] = _excluded[_excluded.length - 1];
            _tOwned[account] = 0;
            _isExcluded[account] = false;
            _excluded.pop();
            break;
        }
    }
}
```

- ❖ The owner can include/exclude wallets from fees.

```
ftrace | funcSig
function excludeFromFee(address account↑) public onlyOwner {
    _isExcludedFromFee[account↑] = true;
}

ftrace | funcSig
function includeInFee(address account↑) public onlyOwner {
    _isExcludedFromFee[account↑] = false;
}
```

- ❖ The owner can change the tax fee, burn Fee and marketing fee.

```
ftrace | funcSig
function setTaxFeePercent(uint256 taxFee↑) external onlyOwner() {
    _taxFee = taxFee↑;
}

ftrace | funcSig
function setBurnFeePercent(uint256 burnFee↑) external onlyOwner() {
    _burnFee = burnFee↑;
}

ftrace | funcSig
function setDonationFeePercent(uint256 DonationFee↑) external onlyOwner() {
    _donationFee = DonationFee↑;
}
```

- ❖ The owner can change the maximum transaction amount.

```
ftrace | funcSig
function setMaxTxPercent(uint256 maxTxPercent↑, uint256 maxTxDecimals↑) external onlyOwner() {
    _maxTxAmount = _tTotal.mul(maxTxPercent↑).div(
        10**((uint256(maxTxDecimals↑) + 2)
    );
}
```

Audit conclusion

While conducting the audit of the Chisai Doge Token smart contract, it was observed that there is nothing alarming with the code but a low severity issue.