



Smart Contract Audit

FOR
Shiba CEO

DATED : 13 MAR 23'



AUDIT SUMMARY

Project name – ShibaCEO

Date: 13 March, 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: **Passed**(Contract developed by Pinksale Safu Dev)

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



USED TOOLS

Tools:

1- Manual Review:

a line by line code review has been performed by audit ace team.

2- BSC Testnet network:

all tests were done on Bsc Testnet network, each test has its transaction has attached to it.

3- Slither : Static Analysis

Testnet Link: all tests were done using this contract, tests are done on BSC Testnet

<https://testnet.bscscan.com/token/0x591c886202597009cC592379B7B88Dd84FAD0eBe#balances>



Token Information

Token Name : Shiba CEO

Token Symbol: ShibaCEO

Decimals: 9

Token Supply: 420,000,000,000,000,000

Token Address:

0xD7701de192b0973f69c310B0063D328cd8eE192a

Checksum:

2d7c64a76f5f92f97d4f45084c7d0c31c350a1a2

Owner:

<https://bscscan.com/address/0x77c8a4bc2f528fbeb39e688c0895929465470125>



TOKEN OVERVIEW

Fees:

Buy Fees: 10%

Sell Fees: 10%

Transfer Fees: 0%

Fees Privilege: None

Ownership : Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: including and excluding from fees and rewards



AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
 - Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
 - Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
 - Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
 - Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
 - Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.
-

VULNERABILITY CHECKLIST

- | | |
|--|---|
|  Return values of low-level calls |  Gasless Send |
|  Private modifier |  Using block.timestamp |
|  Multiple Sends |  Re-entrancy |
|  Using Suicide |  Tautology or contradiction |
|  Gas Limitand Loops |  Timestamp Dependence |
|  Address hardcoded |  Revert/require functions |
|  Exception Disorder |  Use of tx.origin |
|  Using inline assembly |  Integer overflow/underflow |
|  Divide before multiply |  Dangerous strict equalities |
|  Missing Zero Address Validation |  Using SHA3 |
|  Compiler version not fixed |  Using throw |
-



CLASSIFICATION OF RISK

Severity

Description

◆ Critical	These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
◆ High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
◆ Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
◆ Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
◆ Gas Optimization / Suggestion	A vulnerability that has an informational character but is not affecting any of the code.

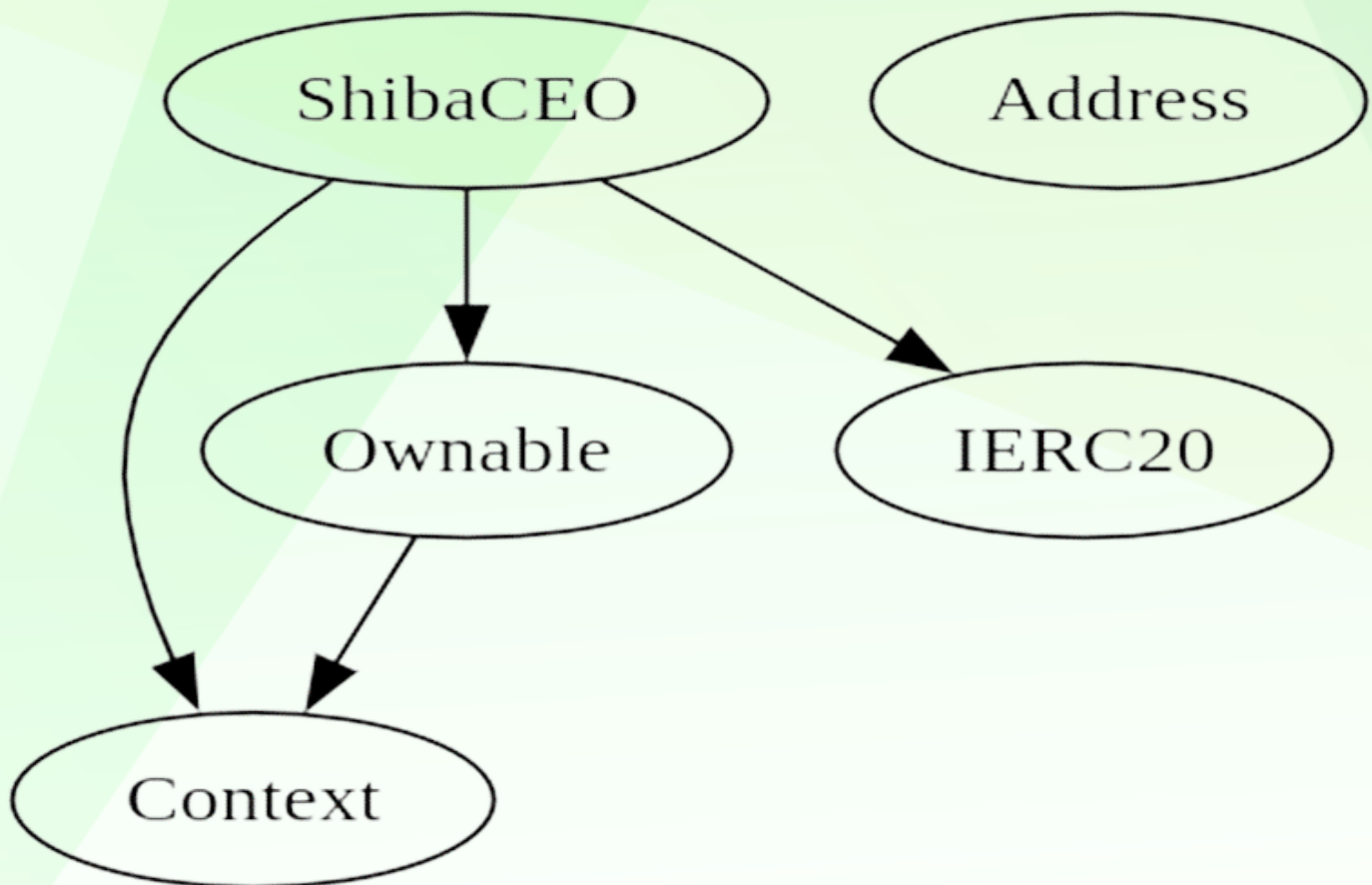
Findings

Severity

Found

◆ Critical	0
◆ High-Risk	0
◆ Medium-Risk	0
◆ Low-Risk	0
◆ Gas Optimization / Suggestions	0

INHERITANCE TREE

























POINTS TO NOTE

- **Owner is not able to change fees
(10% for buy/sell and 0 for transfers)**
 - **Owner is not able to set max buy/sell/transfer/hold amount**
 - **Owner is not able to blacklist an arbitrary wallet**
 - **Owner is not able to disable trades**
 - **Owner is not able to mint new tokens**
-

CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
└	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
Context	Implementation				
└	_msgSender	Internal	🔒		
└	_msgData	Internal	🔒		
Ownable	Implementation	Context			
└	<Constructor>	Public	! 🔴	NO!	
└	owner	Public	!	NO!	
└	renounceOwnership	Public	! 🔴	onlyOwner	
└	transferOwnership	Public	! 🔴	onlyOwner	
IERC20	Interface				
└	totalSupply	External	!	NO!	
└	balanceOf	External	!	NO!	
└	transfer	External	! 🔴	NO!	
└	allowance	External	!	NO!	
└	approve	External	! 🔴	NO!	
└	transferFrom	External	! 🔴	NO!	
Address	Library				
└	isContract	Internal	🔒		
└	sendValue	Internal	🔒	🔴	
└	functionCall	Internal	🔒	🔴	
└	functionCall	Internal	🔒	🔴	
└	functionCallWithValue	Internal	🔒	🔴	
└	functionCallWithValue	Internal	🔒	🔴	
└	_functionCallWithValue	Private	🔒	🔴	
IUniswapV2Factory	Interface				
└	feeTo	External	!	NO!	
└	feeToSetter	External	!	NO!	
└	getPair	External	!	NO!	
└	allPairs	External	!	NO!	
└	allPairsLength	External	!	NO!	
└	createPair	External	! 🔴	NO!	
└	setFeeTo	External	! 🔴	NO!	
└	setFeeToSetter	External	! 🔴	NO!	
IUniswapV2Pair	Interface				

CONTRACT ASSESMENT

```
|  | name | External ! | | NO ! |
|  | symbol | External ! | | NO ! |
|  | decimals | External ! | | NO ! |
|  | totalSupply | External ! | | NO ! |
|  | balanceOf | External ! | | NO ! |
|  | allowance | External ! | | NO ! |
|  | approve | External ! |  | NO ! |
|  | transfer | External ! |  | NO ! |
|  | transferFrom | External ! |  | NO ! |
|  | DOMAIN_SEPARATOR | External ! | | NO ! |
|  | PERMIT_TYPEHASH | External ! | | NO ! |
|  | nonces | External ! | | NO ! |
|  | permit | External ! |  | NO ! |
|  | MINIMUM_LIQUIDITY | External ! | | NO ! |
|  | factory | External ! | | NO ! |
|  | token0 | External ! | | NO ! |
|  | token1 | External ! | | NO ! |
|  | getReserves | External ! | | NO ! |
|  | price0CumulativeLast | External ! | | NO ! |
|  | price1CumulativeLast | External ! | | NO ! |
|  | kLast | External ! | | NO ! |
|  | burn | External ! |  | NO ! |
|  | swap | External ! |  | NO ! |
|  | skim | External ! |  | NO ! |
|  | sync | External ! |  | NO ! |
|  | initialize | External ! |  | NO ! |
| | | |
| **IUniswapV2Router01** | Interface | | |
|  | factory | External ! | | NO ! |
|  | WETH | External ! | | NO ! |
|  | addLiquidity | External ! |  | NO ! |
|  | addLiquidityETH | External ! |  | NO ! |
|  | removeLiquidity | External ! |  | NO ! |
|  | removeLiquidityETH | External ! |  | NO ! |
|  | removeLiquidityWithPermit | External ! |  | NO ! |
|  | removeLiquidityETHWithPermit | External ! |  | NO ! |
|  | swapExactTokensForTokens | External ! |  | NO ! |
|  | swapTokensForExactTokens | External ! |  | NO ! |
|  | swapExactETHForTokens | External ! |  | NO ! |
|  | swapTokensForExactETH | External ! |  | NO ! |
|  | swapExactTokensForETH | External ! |  | NO ! |
```



CONTRACT ASSESMENT

```
|  | swapETHForExactTokens | External ! |  | NO ! |
|  | quote | External ! | | NO ! |
|  | getAmountOut | External ! | | NO ! |
|  | getAmountIn | External ! | | NO ! |
|  | getAmountsOut | External ! | | NO ! |
|  | getAmountsIn | External ! | | NO ! |
|  |  |
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |  |
|  | removeLiquidityETHSupportingFeeOnTransferTokens | External ! |  | NO ! |
|  | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! |  | NO ! |
|  | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! |  | NO ! |
|  | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! |  | NO ! |
|  | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! |  | NO ! |
|  |  |
| **ShibaCEO** | Implementation | Context, IERC20, Ownable |  |
|  | <Constructor> | Public ! |  | NO ! |
|  | name | Public ! | | NO ! |
|  | symbol | Public ! | | NO ! |
|  | decimals | Public ! | | NO ! |
|  | totalSupply | Public ! | | NO ! |
|  | balanceOf | Public ! | | NO ! |
|  | transfer | Public ! |  | NO ! |
|  | allowance | Public ! | | NO ! |
|  | approve | Public ! |  | NO ! |
|  | transferFrom | Public ! |  | NO ! |
|  | increaseAllowance | Public ! |  | NO ! |
|  | decreaseAllowance | Public ! |  | NO ! |
|  | isExcludedFromReward | Public ! | | NO ! |
|  | totalReflectionDistributed | Public ! | | NO ! |
|  | deliver | Public ! |  | NO ! |
|  | reflectionFromToken | Public ! | | NO ! |
|  | tokenFromReflection | Public ! | | NO ! |
|  | excludeFromReward | Public ! |  | onlyOwner |
|  | includeInReward | External ! |  | onlyOwner |
|  | <Receive Ether> | External ! |  | NO ! |
|  | claimStuckTokens | External ! |  | onlyOwner |
|  | _reflectFee | Private  |  |  |
|  | _getValues | Private  |  |  |
|  | _getTValues | Private  |  |  |
|  | _getRValues | Private  |  |  |
|  | _getRate | Private  |  |  |
```

CONTRACT ASSESMENT

	└		_getCurrentSupply		Private	🔒			
	└		_takeLiquidity		Private	🔒		🛑	
	└		_takeMarketing		Private	🔒		🛑	
	└		calculateTaxFee		Private	🔒			
	└		calculateLiquidityFee		Private	🔒			
	└		calculateMarketingFee		Private	🔒			
	└		removeAllFee		Private	🔒		🛑	
	└		setBuyFee		Private	🔒		🛑	
	└		setSellFee		Private	🔒		🛑	
	└		isExcludedFromFee		Public	!		NO!	
	└		_approve		Private	🔒		🛑	
	└		_transfer		Private	🔒		🛑	
	└		swapAndLiquify		Private	🔒		🛑	
	└		swapAndSendMarketing		Private	🔒		🛑	
	└		setSwapTokensAtAmount		External	!		🛑	
	└		setSwapEnabled		External	!		🛑	
	└		_tokenTransfer		Private	🔒		🛑	
	└		_transferStandard		Private	🔒		🛑	
	└		_transferToExcluded		Private	🔒		🛑	
	└		_transferFromExcluded		Private	🔒		🛑	
	└		_transferBothExcluded		Private	🔒		🛑	
	└		excludeFromFees		External	!		🛑	

Legend

	Symbol		Meaning	
	:-----:		-----	
	🛑		Function can modify state	
	💰		Function is payable	



STATIC ANALYSIS

```
Variable ShibaCEO._transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1139) is too similar to ShibaCEO._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1141)
Variable ShibaCEO._getRValues(uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#868) is too similar to ShibaCEO._transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1164)
Variable ShibaCEO._transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1139) is too similar to ShibaCEO._getValues(uint256).tTransferAmount (contracts/Token.sol#824)
Variable ShibaCEO.reflectionFromToken(uint256,bool).rTransferAmount (contracts/Token.sol#758) is too similar to ShibaCEO._getValues(uint256).tTransferAmount (contracts/Token.sol#824)
Variable ShibaCEO._transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1183) is too similar to ShibaCEO._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1141)
Variable ShibaCEO.reflectionFromToken(uint256,bool).rTransferAmount (contracts/Token.sol#758) is too similar to ShibaCEO._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1141)
Variable ShibaCEO._transferStandard(address,address,uint256).rTransferAmount (contracts/Token.sol#1117) is too similar to ShibaCEO._transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1164)
Variable ShibaCEO._transferStandard(address,address,uint256).rTransferAmount (contracts/Token.sol#1117) is too similar to ShibaCEO._getValues(uint256).tTransferAmount (contracts/Token.sol#853)
Variable ShibaCEO._transferStandard(address,address,uint256).rTransferAmount (contracts/Token.sol#1117) is too similar to ShibaCEO._transferBothExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1187)
Variable ShibaCEO._transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1139) is too similar to ShibaCEO._transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1164)
Variable ShibaCEO._transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1139) is too similar to ShibaCEO._getValues(uint256).tTransferAmount (contracts/Token.sol#853)
Variable ShibaCEO._transferFromExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1162) is too similar to ShibaCEO._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1141)
Variable ShibaCEO._getRValues(uint256,uint256,uint256,uint256).rTransferAmount (contracts/Token.sol#868) is too similar to ShibaCEO._transferToExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1141)
Variable ShibaCEO.reflectionFromToken(uint256,bool).rTransferAmount (contracts/Token.sol#758) is too similar to ShibaCEO._transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1164)
Variable ShibaCEO._transferBothExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1183) is too similar to ShibaCEO._transferFromExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1164)
Variable ShibaCEO._transferToExcluded(address,address,uint256).rTransferAmount (contracts/Token.sol#1139) is too similar to ShibaCEO._transferBothExcluded(address,address,uint256).tTransferAmount (contracts/Token.sol#1187)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

ShibaCEO.DEAD (contracts/Token.sol#565) should be constant
ShibaCEO.decimals (contracts/Token.sol#539) should be constant
ShibaCEO.name (contracts/Token.sol#537) should be constant
ShibaCEO.symbol (contracts/Token.sol#538) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

ShibaCEO.tTotal (contracts/Token.sol#542) should be immutable
ShibaCEO.liquidityFeeonBuy (contracts/Token.sol#549) should be immutable
ShibaCEO.liquidityFeeonSell (contracts/Token.sol#550) should be immutable
ShibaCEO.marketingFeeonBuy (contracts/Token.sol#552) should be immutable
ShibaCEO.marketingFeeonSell (contracts/Token.sol#553) should be immutable
ShibaCEO.marketingWallet (contracts/Token.sol#562) should be immutable
ShibaCEO.marketingWalletTwo (contracts/Token.sol#563) should be immutable
ShibaCEO.taxFeeonBuy (contracts/Token.sol#546) should be immutable
ShibaCEO.taxFeeonSell (contracts/Token.sol#547) should be immutable
ShibaCEO.totalBuyFees (contracts/Token.sol#559) should be immutable
ShibaCEO.totalSellFees (contracts/Token.sol#560) should be immutable
ShibaCEO.uniswapV2Pair (contracts/Token.sol#568) should be immutable
ShibaCEO.uniswapV2Router (contracts/Token.sol#567) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

Result => A static analysis of contract's source code has been performed using slither,

No issues found



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

1- Adding Liquidity (**Passed**):

liquidity added on Pancakeswap V2:

<https://testnet.bscscan.com/tx/0x7c83426bed83de613569cfeed38488ce0d6df681b114fd6993e8c98c5ac93a75>

2- Buying from a non-excluded wallet (0% max)(**Passed**):

<https://testnet.bscscan.com/tx/0x3b7ba9d6952863fcdeed8f0f9c22e17e42f4f4e7a5a8334a55f69c1a6c2abeb5>

3- Selling from a non-excluded wallet (0% max)(**Passed**):

<https://testnet.bscscan.com/tx/0xf8a6a6960fae0596034f11b56e4e7db65cadcc9c5071d56c010abdee196abb2c>

4- Transferring when excluded (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x9e4ed6daef99ee3d0c56a2a28037a2b01922a48b7751c3c57665e3dbfaeb0d8b>

5- Buying when not excluded (10% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x170d2edb479f4867dcbcb5d153a3d3385907cd6bd3e4acd864799d1fc413f9f6a>



FUNCTIONAL TESTING

6- Selling when not excluded (10% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x21b640958889a18fbe50fe0f7422936ac8559317b1d3d730f0c46292c22685f6>

7- Transferring when not excluded(10% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x9e4ed6daef99ee3d0c56a2a28037a2b01922a48b7751c3c57665e3dbfaeb0d8b>

8- Internal swap (**passed**):

marketing wallet 2 received ETH

<https://testnet.bscscan.com/address/0x3cde8c587e658c4275a27212b943c865edf1618e#internaltx>

marketing wallet 1 received ETH

<https://testnet.bscscan.com/address/0xc6f92e3f0d46d5418e400c55b97cfb5364f3b3af#internaltx>

9- Reflections (**passed**):

we monitored wallet balances for testing this features, wallets received reflection after trades, they stoped getting reflections after getting excluded from rewards



MANUAL TESTING

No Issues Found



Social Media Overview

**Here are the Social Media Accounts of
Shiba CEO**



<https://t.me/ShibaCEOEN>



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