

RugFreeCoins Audit



Meme Royale Token
Smart Contract Security Audit
December 9th 2022

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Audit details





Contract Address

0xD701a4668ff5c3488aEdceF7BD6647701394cC8b



Client contact

Meme Royale Team



Blockchain

Binance smart chain



Project website

https://www.thememeroyale.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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Overview

- ☑ No mint function found, the owner cannot mint tokens after initial deployment.
- ▼ The owner can set a max sell limit minimum upto 0.5%
- ▼ The owner can't pause trading.
- ▼ The owner can't set fees over 20%
- ▼ The owner can set a max wallet limit minimum upto 1%
- X The owner can claim the contract's balance of its own token.
- X The owner can blacklist wallets.(with pink antibot)

Background

Rugfreecoins was commissioned by the Meme Royale Team to perform an audit of the smart contract.

https://bscscan.com/token/0xD701a4668ff5c3488aEdceF7BD6647701394cC8b

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, and long-term sustainability, and as a guide to improving the smart contract's security posture by remediating the identified issues.

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ROADMAP

Phase 1

- Develope a solid contract for future Certik Audit
- Building community
- Marketing via Tg and twitter crypto influencers
- Presale
- Partner with crypto influencers as brand ambassador
- · Game Developement started
- NFT started

Phase 2

- Marketing
- Building a strong #Defi infrastructure
- MRoyaleSwap
- \$ROYALE staking pool
- ETH bridge
- Dogechain bridge
- CRO bridge
- BRISE bridge

Phase 3

- Marketing
- NFT Launchpad development
- NFT marketplace Development
- Certik Audit

Phase 4

- Marketing
- Game Beta Release
- Lottery for Beta tester get free Legendary items
- Hold Twitch Beta preview and Testing
- Community give away

Tokenomics

8% when buying & selling

- 3% of trade goes to marketing wallet in BNB.
- 2% of trade goes to holders pockets in native tokens.
- 2% of trade goes to the liquidity pool.
- 1% of trade goes to burn wallet.

Target market and the concept

Target market

- Anyone who's interested in the 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 taking part of the Meme Royale ecosystem.
- Anyone who's interested in taking part in the future plans of Meme Royale Token.
- Anyone who's interested in making financial transactions with any other party using Meme Royale Token as the currency.

Potential to grow with score points

1.	Project efficiency	9/10
2.	Project uniqueness	9/10
3	Information quality	9/10
4	Service quality	9/10
5	System quality	9/10
6	Impact on the community	9/10
7	Impact on the business	9/10
8	Preparing for the future	8/10
9	Smart contract security	10/10
10	Smart contract functionality assessment	10/10
Total	9.1/10	

Contract details

Token contract details for 9th of December 2022

Contract name	MemeRoyale
Contract address	0xD701a4668ff5c3488aEdceF7BD6647701394cC8b
Token supply	100,000,000,000,000
Token ticker	ROYALE
Decimals	18
Token holders	1
Transaction count	1
Marketing wallet	0xa3cc159798ff27048d6be496f9571f36d50b2145
Dividend tracker	0x51dda43de237b8800b6f68041415a048bc18f738
Contract deployer address	0x72468F1B96e5c91b035B10f6D9A6b365980837fc
Contract's current owner address	0x0f59012595c820289c07d73b2c25aef70db779e2

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
		Self-destruct function security	pass
3	Business security	Access control of owners	
		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

The 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 their visibility and mutability.

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
MemeRoyale	Implementation	BEP20, Auth		
L		Public !	•	Auth BEP20
L		External !		NO!
L	_transfer	Internal 🔒		
L	_preTransferCheck	Internal 🗎	•	
L	_takeFee	Internal 🔒	•	
L	_shouldTakeFee	Internal 🗎		
L	_shouldSwapBack	Internal 🔒		
L	_swapBack	Internal 🗎	•	
L	_addLiquidity	Private 🔐		
L	_swapForNative	Internal 🔒	•	
L	getCirculatingSupply	Public !		NO!
L	updateClaimWait	External !	•	onlyOwner
L	getClaimWait	External !		NO!
L	updateMinimumTokenBalanceForDi vidends	External !	•	onlyOwner

L	getMinimumTokenBalanceForDivide nds	External !		NO!
L	claim	External !		NO!
L	processDividendTracker	External !		NO!
L	getAccountDividendsInfo	External !		NO!
L	setReflectionExempt	External !		authorized
L	isReflectionExempt	External !		NO!
L	setAntiBot	External !		authorized
L	setSellCooldown	External !		authorized
L	setSellCooldownExempt	External !		authorized
L	setSwapEnabled	External !		authorized
L	setSwapThreshold	External !		authorized
L	setFeeExempt	External !		authorized
L	setMaxWalletSize	External !		authorized
L	setMaxWalletExempt	External !		authorized
L	setMaxSellTxSize	External !		authorized
L	setMaxSellTxSizeExempt	External !		authorized
L	setExempt	External !		authorized
L	setAmm	External !		authorized
L	setMarketingWallet	External !		authorized
L	setFees	External !	•	authorized

L	rescueBalance	External !	•	authorized
L	rescueOwnBalance	External !	•	authorized
L	rescueNativeBalance	External !	•	authorized
SafeMath	Library			
L	tryAdd	Internal 🗎		
L	trySub	Internal 🔒		
L	tryMul	Internal 🗎		
L	tryDiv	Internal 🗎		
L	tryMod	Internal 🗎		
L	add	Internal 🔒		
L	sub	Internal 🗎		
L	mul	Internal 🗎		
L	div	Internal 🗎		
L	mod	Internal 🔒		
L	sub	Internal 🗎		
L	div	Internal 🗎		
L	mod	Internal 🗎		
Auth	Implementation			
L		Public !	•	NO!
L	authorize	Public !	•	onlyOwner

L	unauthorize	Public !		onlyOwner
L	isOwner	Public !		NO!
L	owner	Public !		NO!
L	isAuthorized	Public !		NO!
L	transferOwnership	Public !		onlyOwner
BEP20	Implementation	Context, IBEP20, IBEP20 Metadata		
L		Public !		NO!
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	_transfer	Internal 🔒	•	

L	_mint	Internal 🔒		
L	_burn	Internal 🗎	•	
L	_approve	Internal 🔒		
L	_spendAllowance	Internal 🔒		
L	_beforeTokenTransfer	Internal 🔒		
L	_afterTokenTransfer	Internal 🔒		
	l			
IBEP20	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!
IBEP20 Metadata	Interface	IBEP20		
L	name	External !		NO!
L	symbol	External !		NO!
L	decimals	External !		NO!
IDEXFactory	Interface			
L	createPair	External !		NO!

IDEXRouter	Interface			
L	factory	External !		NO!
L	WETH	External		NO!
L	addLiquidity	External !		NO!
L	addLiquidityETH	External !		NO!
L	swapExactTokensForTokensSuppor tingFeeOnTransferTokens	External !		NO!
L	swapExactETHForTokensSupportin gFeeOnTransferTokens	External !	s	NO!
L	swapExactTokensForETHSupportin gFeeOnTransferTokens	External !	•	NO!
IPinkAntiBot	Interface			
L	setTokenOwner	External !		NO!
L	onPreTransferCheck	External !		NO!
SafeBEP20	Library			
L	safeTransfer	Internal 🔒		
L	safeTransferFrom	Internal 🔒		
L	safeApprove	Internal 🔒		
L	safeIncreaseAllowance	Internal 🔒		
L	safeDecreaseAllowance	Internal 🔒		
L	_callOptionalReturn	Private 🔐		

MemeRoyale Dividend Tracker	Implementation	Auth, Dividend PayingToken		
L		Public !	•	Auth Dividend Paying Token
L	_transfer	Internal 🗎		
L	withdrawDividend	Public !		NO!
L	distributeDividends	External !		onlyOwner
L	excludeFromDividends	External !		onlyOwner
L	includeInDividends	External !		onlyOwner
L	isExcludedFromDividends	Public !		NO!
L	updateClaimWait	External !		onlyOwner
L	updateMinimumTokenBalanceForDi vidends	External !		onlyOwner
L	getLastProcessedIndex	External !		NO!
L	getNumberOfTokenHolders	External !		NO!
L	getAccount	Public !		NO!
L	getAccountAtIndex	Public !		NO!
L	canAutoClaim	Private 🔐		
L	setBalance	External !		onlyOwner
L	process	Public !		NO!
L	processAccount	Public !		onlyOwner

Context	Implementation		
L	_msgSender	Internal 🔒	
L	_msgData	Internal 🔒	
Address	Library		
L	isContract	Internal 🔒	
L	sendValue	Internal 🔒	
L	functionCall	Internal 🔒	
L	functionCall	Internal 🔒	
L	functionCallWithValue	Internal 🔒	
L	functionCallWithValue	Internal 🔒	
L	functionStaticCall	Internal 🔒	
L	functionStaticCall	Internal 🔒	
L	functionDelegateCall	Internal 🔒	
L	functionDelegateCall	Internal 🔒	
L	verifyCallResult	Internal 🔒	
Dividend PayingToken	Implementation	ERC20 Mintable, Idividend PayingToken, Idividend PayingToken Optional	
L		Public !	ERC20Mint able

L	distribute	Internal 🔒	
L	withdrawDividend	Public !	NO!
L	_withdrawDividendOfUser	Internal 🗎	
L	dividendOf	Public !	NO!
L	withdrawableDividendOf	Public !	NO!
L	withdrawnDividendOf	Public !	NO!
L	accumulativeDividendOf	Public !	NO!
L	_transfer	Internal 🔒	
L	_mint	Internal 🔒	
L	_burn	Internal 🔒	
L	_setBalance	Internal 🔒	
lterable Mapping	Library		
L	get	Public !	NO!
L	getIndexOfKey	Public !	NO!
L	getKeyAtIndex	Public !	NO!
L	size	Public !	NO!
L	set	Public !	NO!
L	remove	Public !	NO!

ERC20Preset MinterPauser	Implementation	Context, AccessControl Enumerable, ERC20 Burnable, ERC20 Pausable		
L		Public !		ERC20
L	mint	Public !		NO!
L	pause	Public !		NO!
L	unpause	Public !		NO!
L	_beforeTokenTransfer	Internal 🗎	•	
ERC20 Mintable	Implementation	Context, AccessControl Enumerable, ERC20 Burnable		
L		Public !		ERC20
L	mint	Public !		NO!
SafeMathInt	Library			
L	mul	Internal 🗎		
L	div	Internal 🗎		
L	sub	Internal 🗎		
L	add	Internal 🗎		
L	abs	Internal 🗎		
L	toUint256Safe	Internal 🗎		

SafeMathUint	Library		
L	toInt256Safe	Internal 🔒	
ldividend PayingToken	Interface		
L	dividendOf	External !	NO!
L	withdrawDividend	External !	NO!
		,	
ldividend PayingToken Optional	Interface		
L	withdrawableDividendOf	External !	NO!
L	withdrawnDividendOf	External !	NO!
L	accumulativeDividendOf	External !	NO!
ERC20	Implementation	Context, IERC20, IERC20 Metadata	
L		Public !	NO!
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	_transfer	Internal 🔒	
L	_mint	Internal 🗎	
L	_burn	Internal 🗎	
L	_approve	Internal 🔒	
L	_spendAllowance	Internal 🔒	
L	_beforeTokenTransfer	Internal 🗎	
L	_afterTokenTransfer	Internal 🗎	
ERC20 Burnable	Implementation	Context, ERC20	
L	burn	Public !	NO!
L	burnFrom	Public !	NO!
ERC20 Pausable	Implementation	ERC20, Pausable	
L	_beforeTokenTransfer	Internal 🔒	
			·
AccessControl Enumerable	Implementation	IAccessContro IEnumerable, AccessControl	

L	supportsInterface	Public !		NO!
L	getRoleMember	Public !		NO!
L	getRoleMemberCount	Public !		NO!
L	_grantRole	Internal 🔒		
L	_revokeRole	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!
IERC20 Metadata	Interface	IERC20		
L	name	External !		NO!
L	symbol	External !		NO!
L	decimals	External !		NO!
Pausable	Implementation	Context		
L		Public !		NO!
L	paused	Public!		NO!

L	_requireNotPaused	Internal 🔒		
L	_requirePaused	Internal 角		
L	_pause	Internal 🗎		When NotPaused
L	_unpause	Internal 🗎		When Paused
IAccessContro IEnumerable	Interface	IAccessContro I		
L	getRoleMember	External !		NO!
L	getRoleMemberCount	External !		NO!
,				<u>'</u>
AccessControl	Implementation	Context, laccess Control, ERC165		
L	supportsInterface	Public !		NO!
L	hasRole	Public !		NO!
L	_checkRole	Internal 🗎		
L	_checkRole	Internal 🗎		
L	getRoleAdmin	Public !		NO!
L	grantRole	Public !		onlyRole
L	revokeRole	Public !		onlyRole
L	renounceRole	Public !		NO!
L	_setupRole	Internal 🗎	•	
L	_setRoleAdmin	Internal 🗎	•	
				l

L	_grantRole	Internal 🗎	
L	_revokeRole	Internal 🗎	•
Enumerable Set	Library		
L	_add	Private 🔐	•
L	_remove	Private 🔐	•
L	_contains	Private 🔐	
L	_length	Private 🔐	
L	_at	Private 🔐	
L	_values	Private 🔐	
L	add	Internal 🗎	•
L	remove	Internal 🔓	•
L	contains	Internal 🔒	
L	length	Internal 🗎	
L	at	Internal 🗎	
L	values	Internal 🗎	
L	add	Internal 🔒	•
L	remove	Internal 🗎	•
L	contains	Internal 🗎	
L	length	Internal 🗎	
L	at	Internal 🗎	

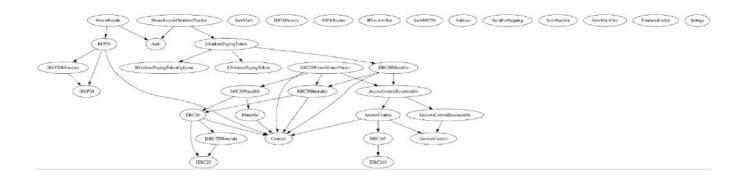
L	values	Internal 👜		
L	add	Internal 🔒		
L	remove	Internal 🔒	•	
L	contains	Internal 🗎		
L	length	Internal 🔒		
L	at	Internal 🔒		
L	values	Internal 🗎		
laccess Control	Interface			
L	hasRole	External !		NO!
L	getRoleAdmin	External !		NO!
L	grantRole	External !		NO!
L	revokeRole	External !		NO!
L	renounceRole	External !		NO!
Strings	Library			
L	toString	Internal 🔒		
		Internal 🔒		
L	toHexString	internal 🔳		
L L	toHexString toHexString	Internal •		

ERC165	Implementation	IERC165	
L	supportsInterface	Public !	NO!
IERC165	Interface		
L	supportsInterface	External !	NO!

Legend

Symbol	Meaning
	Function can modify state
81 D	Function is payable

Inheritance Hierarchy



Security issue checking status

High severity issues

Deposit function is missing in reward contract

Informed and fixed

To calculate dividend there should be a deposit function and that function should call from the token contract when it transfers reward tokens to the reward tracker, and inside deposit function it should calculate dividend per share value, currently dividend per share value is not getting calculated. Hence, rewards are not getting processed.

- Medium severity issues
 No medium severity issues found
- Low severity issues

Duplicating variables

Informed and fixed

When calling _preTransferCheck function it is passing amount and amountAfterFees variables but in this point both amount and amountAfterFees values will always same, no need to pass two variable

```
bool takeFee = _shouldTakeFee(from 1, to 1);
uint256 amountAfterFees = amount 1;
_preTransferCheck(from 1, to 1, amount 1, amountAfterFees);
```

❖ Centralization Risk

Auto LP does not go to an unreachable address

Informed and fixed

```
ftrace | funcSig
function _addLiquidity(uint256 tokenAmount1, uint256 nativeTokenAmount1)
    private
    returns (uint256 spentNative1)
{
        approve(address(this), address(router), tokenAmount1);

        (, spentNative1, ) = router.addLiquidityETH{value: nativeTokenAmount1}(
            address(this),
            tokenAmount1,
            0, // slippage is unavoidable
            0, // slippage is unavoidable
            liquidityReceiver,
            block.timestamp
        );
}
```

Owner privileges

The owner can change minimum waiting period for receive rewards

```
ftrace|funcSig
function updateClaimWait(uint256 claimWait1) external onlyOwner {
    dividendTracker.updateClaimWait(claimWait1);
}
```

❖ The owner can change minimum token amount to have receive rewards

The owner can enclude/exclude wallets from rewards

```
ftrace|funcSig
function setReflectionExempt(address holder1, bool exempt1) external authorized
{
    if (exempt1) {
        dividendTracker.excludeFromDividends(holder1);
    } else {
        dividendTracker.includeInDividends(holder1, balanceOf(holder1));
    }
}
```

The owner can enable/disable pink antibot

```
ftrace|funcSig
function setAntiBot(bool nextEnabled1) external authorized {
    require(pinkAntiBotEnabled!= nextEnabled1, "MRO: value-already-set");
    pinkAntiBotEnabled = nextEnabled1;
}
```

❖ The owner can enable/disable sell cool down and can change sell cool down time maximum upto 1 min

The owner can include/exclude wallets from sell cool down

The owner can change the swap point

```
ftrace|funcSig
function setSwapThreshold(uint256 nextThreshold1) external authorized {
    require(swapThreshold!= nextThreshold1, "MRO: value-already-set");
    swapThreshold = nextThreshold1;
}
```

❖ The owner can change max wallet size minimum upto 1%

```
ftrace|funcSig
function setMaxWalletSize(uint256 nextMaxWalletPerc1) external authorized {
    require(nextMaxWalletPerc1 >= 100, "MRO: max-wallet-lt-1-perc");

    uint256 nextMaxWalletSize = TOTAL_SUPPLY.div(10000).mul(
        nextMaxWalletPerc1
    );
    emit MaxWalletSizeUpdated(maxWalletSize, nextMaxWalletSize);
    maxWalletSize = nextMaxWalletSize;
}
```

❖ The owner can include/exclude wallets from max wallet size

```
ftrace|funcSig
function setMaxWalletExempt(address holder1, bool exempt1)
    external
    authorized
{
    require(_maxWalletExempt[holder1] != exempt1, "MRO: already-set");
    _maxWalletExempt[holder1] = exempt1;
}
```

❖ The owner can change max sell amount maximum upto 0.5%

```
ftrace|funcSig
function setMaxSellTxSize(uint256 nextMaxSellTxSizePerc1)
    external
    authorized
{
    require(nextMaxSellTxSizePerc1 >= 50, "MRO: max-tx-lt-.5-perc");

    uint256 nextMaxSellTxSize = TOTAL_SUPPLY.div(10000).mul(
         nextMaxSellTxSizePerc1
    );
    emit MaxSellTxSizeUpdated(maxSellTxSize, nextMaxSellTxSize);

    maxSellTxSize = nextMaxSellTxSize;
}
```

The owner include/exclude wallets from max sell limit

```
ftrace|funcSig
function setMaxSellTxSizeExempt(address holder1, bool exempt1)
    external
    authorized
{
    require(_maxSellTxSizeExempt[holder1] != exempt1, "MRO: already-set");
    _maxSellTxSizeExempt[holder1] = exempt1;
}
```

The owner can add/remove new pairs

```
ftrace|funcSig
function setAmm(address amm1, bool isMaker1) external authorized {
    require(amms[amm1] != isMaker1, "MRO: already-set");

amms[amm1] = isMaker1;

if (isMaker1) {
    dividendTracker.excludeFromDividends(amm1);
} else {
    dividendTracker.includeInDividends(amm1, balanceOf(amm1));
}
```

The owner can change marketing wallet address

❖ The owner can change all fees, total fees maximum upto 20% and each fees maximum upto 10%

```
function setFees(
   uint256 nextMarketingFee1,
   uint256 nextReflectionFee*,
   uint256 nextBurnFee*,
   uint256 nextLiquidityFee1
) external authorized {
       (nextMarketingFee1 +
           nextReflectionFee* +
           nextBurnFee * *
           nextLiquidityFee1) <= 2000,
       "MRO: fees-exceed-20p"
   require(
       nextMarketingFee↑ <= 1000 &&
           nextReflectionFee   <= 1000 &&
           nextBurnFee↑ <= 1000 &&
           nextLiquidityFee    <= 1000,
       "MRO: single-fee-exceeds-10p"
   marketingFee = nextMarketingFee1;
   reflectionFee = nextReflectionFee1;
   burnFee = nextBurnFee*;
   liquidityFee = nextLiquidityFee1;
   emit FeesUpdated(
       totalFees,
       nextMarketingFee1 +
           nextReflectionFee* +
           nextBurnFee *
           nextLiquidityFee1
   totalFees =
       nextMarketingFee +
       nextReflectionFee* +
       nextBurnFee🛊 🛨
       nextLiquidityFee1;
```

❖ The owner can take any bep20 tokens in the contract

❖ The owner can take native tokens from the contract

```
ftrace|funcSig
function rescueOwnBalance(uint256 percentage1) external authorized {
    require(
        percentage1 >= 0 && percentage1 <= 100,
        "MRO: value-not-between-0-and-100"
    );

    uint256 amount = balanceOf(address(this));

    super._transfer(
        address(this),
        _msgSender(),
        amount.mul(percentage1).div(100)
    );
}</pre>
```

Audit conclusion

RugFreeCoins team has performed in-depth testings, line-by-line manual code review, and automated audit of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, manipulations, and hacks. According to the smart contract audit.

Smart contract functional Status: PASS

Number of risk issues: 0

Solidity code functional issue level: PASS

Number of owner privileges: 16

Centralization risk correlated to the active owner: NONE

Smart contract active ownership: ACTIVE