



RugFreeCoins Audit



Kermit Koin Token

Smart Contract Security Audit

July 08, 2021

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Audit details



Audited project

Kermit Koin Token



Contract Address

0xbec2f6f12c89785f6f79a852bfc48e0cd11c2ffd



Client contact

Kermit Koin Team



Blockchain

Binance smart chain



Project website

<https://kermitkoin.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 Kermit Koins to perform an audit of the smart contract.

<https://bscscan.com/token/0xbec2f6f12c89785f6f79a852bfc48e0cd11c2ffd>

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

KermitKoin, is purely a meme token, for purposes of fun and its primary use is for holding and mini games.

There will be two core apps:

- ❖ Kermit **K**lub - a place to meet other **K**ermits online in a virtual world.
- ❖ Kermit Olympi**k**s - where all Kermits come together to win prizes.

It will also be included as a secondary NFT Marketplace which allows users to trade and sell skins for these games.

Tokenomics

- 1% of trade goes to holders pockets.
- 1% of trade goes to the burn wallet.
- 1% of trade goes to development and marketing.

Kermit Team



1

Name: Kevin Upton

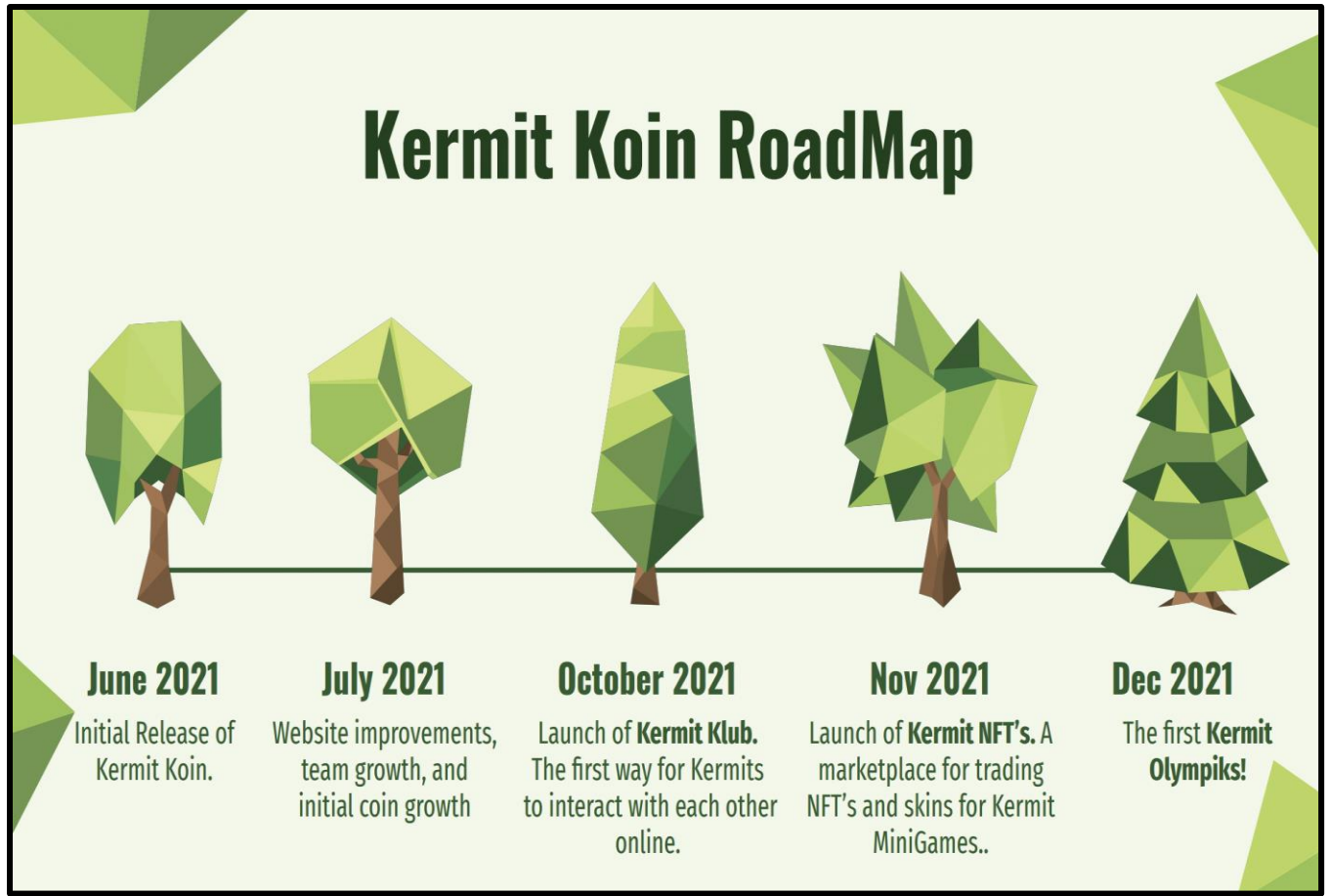
Meme Apprentice - Tech Wizard



2

Name: Tommi Sullivan

Meme Master - Business Expert



Target market and the concept

Target market

- Anyone who's interested in playing fun games and interact with other Kermit users
- Anyone who's interested in playing games and earning.
- Anyone who's interested in creating memes and selling through the upcoming platform.
- Anyone who's interested in owning meme NFTs and Kermit game skins.
- 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.

Core concept

The Kermit project has been built on the word “**K**,” which will be a huge marketing factor in the meme and crypto space. Kermit Koin, the Meme Koin that stands for **K**onsistent, **K**alculated, **K**onfidence.

Kermit Klub

- ❖ Browser game option for Kermits to play games without installing anything and multiplayer option to interact with other Kermit users within the platform.
- ❖ Chat with other Kermit users within the platform about memes or any other related to Kermit.
- ❖ Different exclusive access for the features on the platform based on the Kermit token amount that the user holds.
- ❖ Options to dress up the unique Kermit NFTs purchased from the marketplace.

Kermit NFT Marketplace

- ❖ Kermit NFTs selling place, where anyone can purchase using Kermit as the currency.
- ❖ Artists can sell their own memes through this marketplace.
- ❖ Purchase skins for your kermit, which can be used in Kermit Olympiks and Klub.

Kermit Olympiks

- ❖ A bunch of MiniGames which make up the whole Olympiks through the browser without installing any application.
- ❖ Multiplayer option to play with other Kermit users.
- ❖ Dedicated Kermit Olympiks pool in prizes!
- ❖ Options to dress up the unique Kermit NFTs purchased from the marketplace.

Potential to grow with score points

1.	Project efficiency	8/10
2.	Project uniqueness	8/10
3	Information quality	8/10
4	Service quality	7/10
5	System quality	7/10
6	Impact on the community	8/10
7	Impact on the business	8/10
8	Preparing for the future	5/10
Total Points		7.38/10

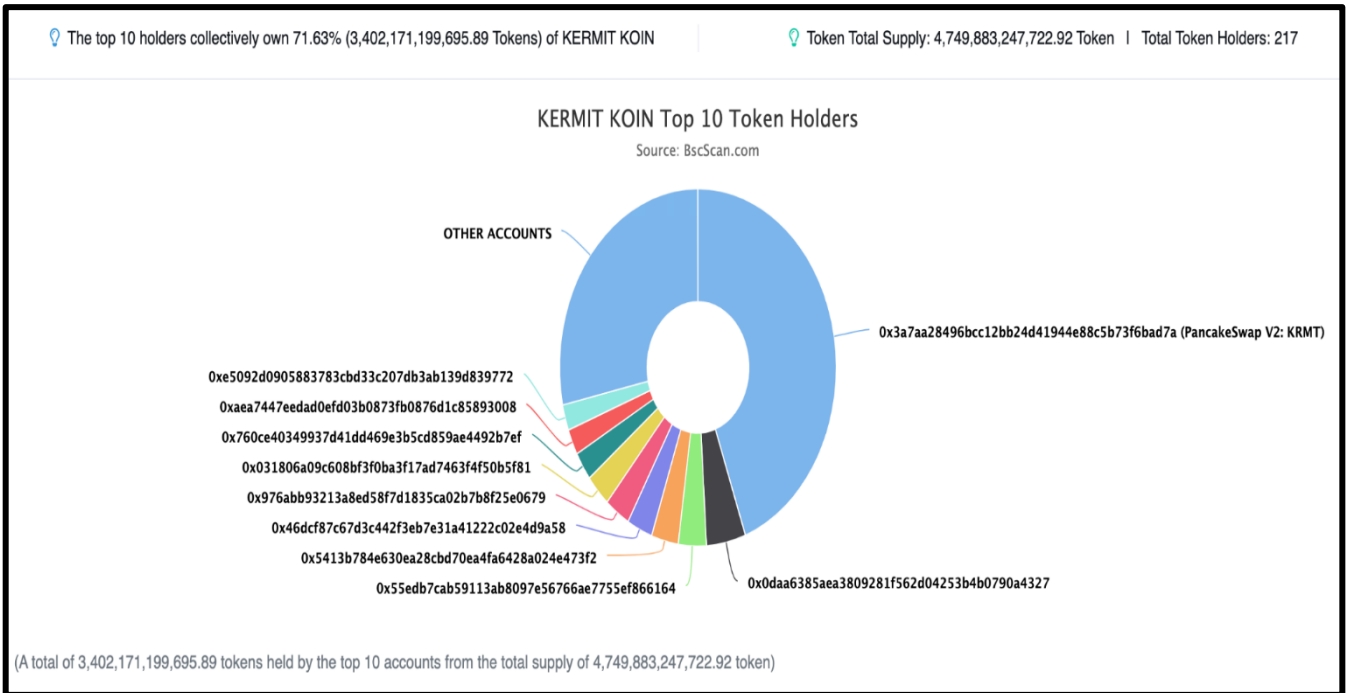
Contract details

Token contract details for 08th July 2021

Contract name	KERMIT KOIN
Contract address	0xbec2f6f12c89785f6f79a852bfc48e0cd11c2ffd
Token supply	4,749,883,247,722.915831
Token ticker	KRMT
Decimals	18
Token holders	217
Transaction count	2747
Top 100% holders dominance	100%
Contract deployer address	0x2cC815BdcE4f773cD7982658BB4DD6cD31938fFB
Contract's current owner address	0x00

Top token holders

Top 10 Token Holders



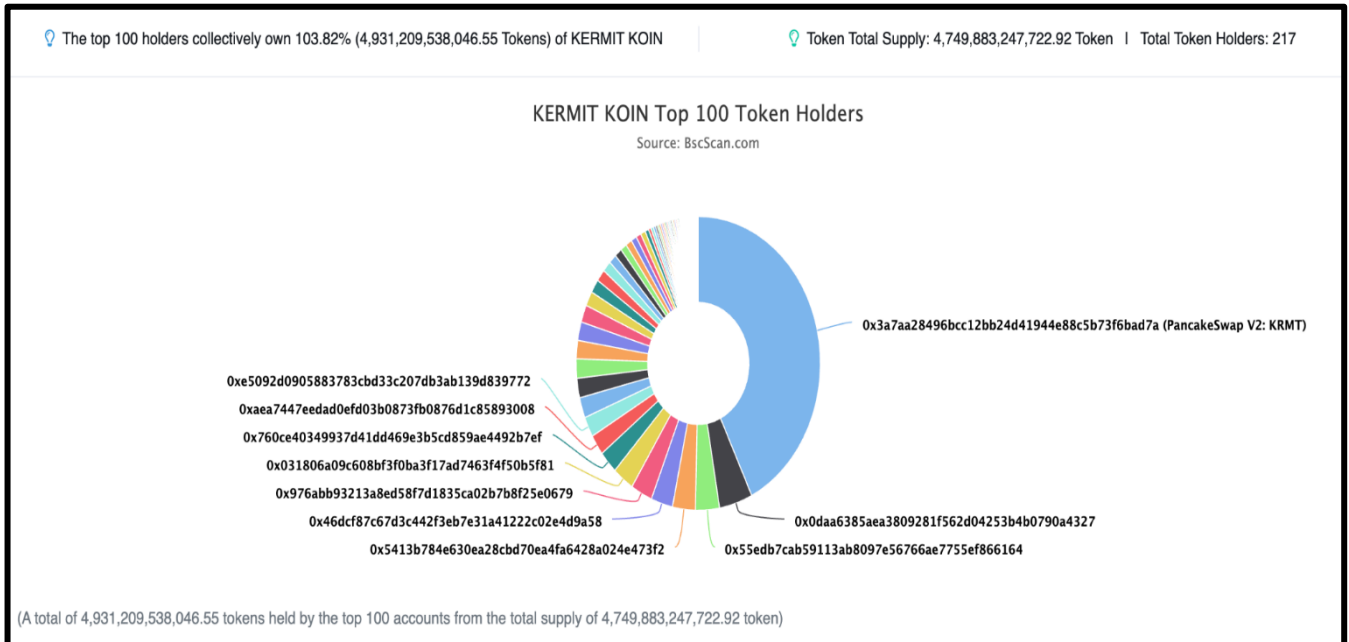
Rank	Address	Quantity (Token)	Percentage
1	PancakeSwap V2: KRMT	2,110,335,200,905.495764897870580107	44.4292%
2	0x0daa6385aea3809281f562d04253b4b0790a4327	217,697,102,352.253958940078588236	4.5832%
3	0x55edb7cab59113ab8097e56766ae7755ef866164	156,267,093,017.462766228892179651	3.2899%
4	0x5413b784e630ea28cbd70ea4fa6428a024e473f2	149,452,059,034.570757095152766104	3.1464%
5	0x46dcf87c67d3c442f3eb7e31a41222c02e4d9a58	142,290,602,708.356403738122855332	2.9957%
6	0x976abb93213a8ed58f7d1835ca02b7b8f25e0679	141,160,744,244.996768642161089345	2.9719%
7	0x031806a09c608bf3f0ba3f17ad7463f4f50b5f81	140,390,280,041.010826157937460124	2.9557%
8	0x760ce40349937d41dd469e3b5cd859ae4492b7ef	123,510,927,544.00087386691960689	2.6003%
9	0xaa7447eedad0efd03b0873fb0876d1c85893008	110,895,830,765.807990732219052428	2.3347%
10	0xe5092d0905883783cbd33c207db3ab139d839772	110,171,359,081.934120625289836728	2.3195%

Token distribution

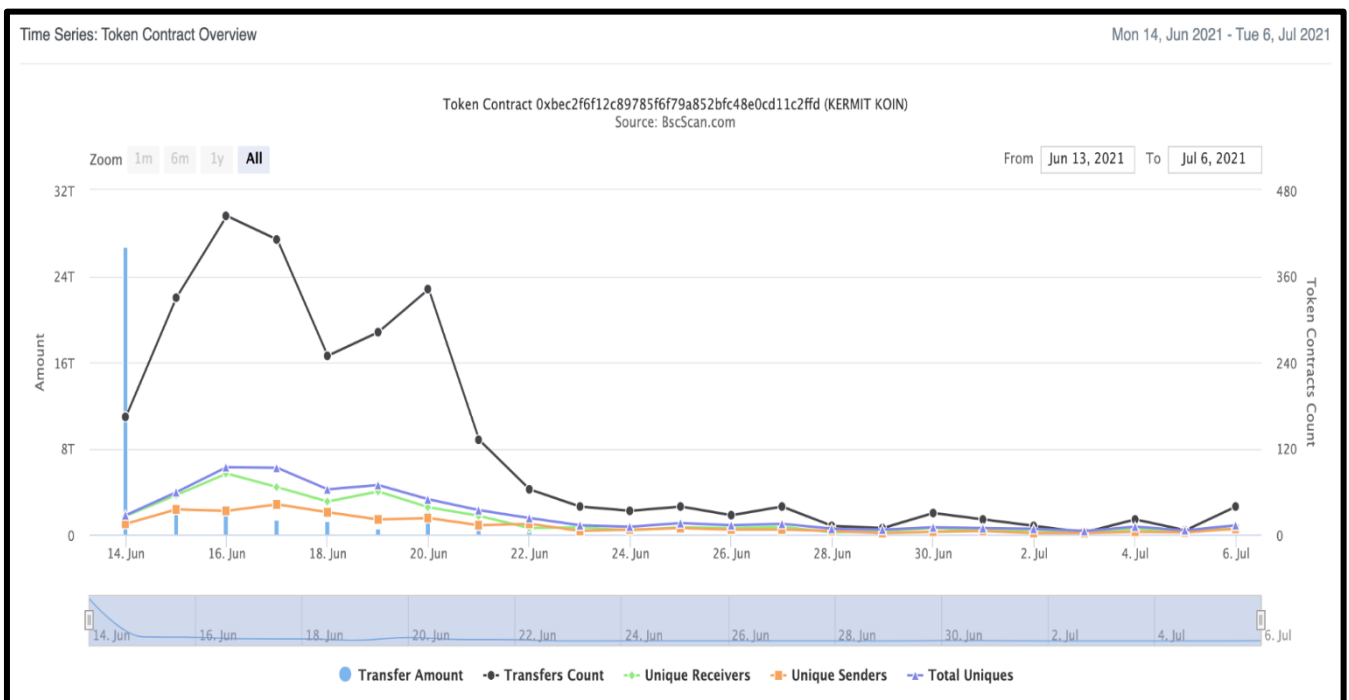
Tokens are distributed as follows:

❖	Burnt	5%
❖	Contract	47%
❖	Dev wallet	3%

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 		
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 
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	functionCallWithValue	Internal 		
L	functionCallWithValue	Internal 		
L	_functionCallWithValue	Private 		
Ownable	Implementation	Context		
L	owner	Public 		NO 
L	renounceOwnership	Public 		onlyOwner
L	transferOwnership	Public 		onlyOwner
KERMITKoin	Implementation	Context, IBEP20, Ownable		
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 

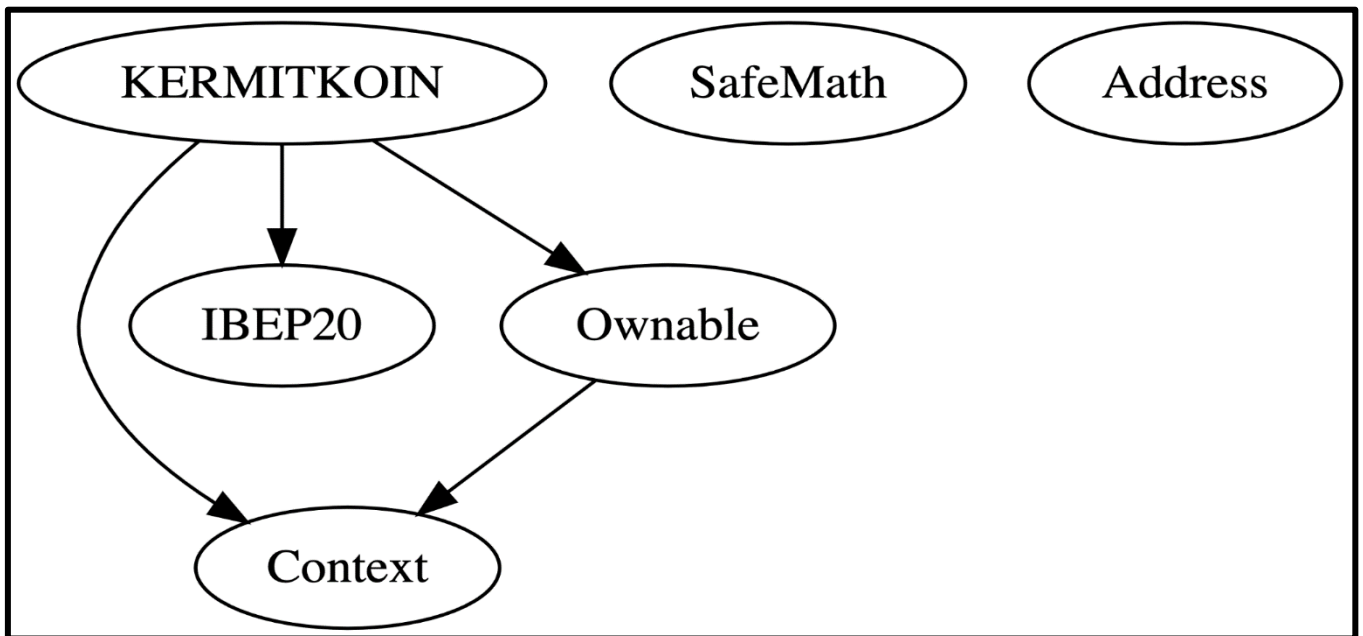
L	transferFrom	Public !		NO !
L	increaseAllowance	Public !		NO !
L	decreaseAllowance	Public !		NO !
L	isExcluded	Public !		NO !
L	isCharity	Public !		NO !
L	totalFees	Public !		NO !
L	totalBurn	Public !		NO !
L	totalCharity	Public !		NO !
L	deliver	Public !		NO !
L	reflectionFromToken	Public !		NO !
L	tokenFromReflection	Public !		NO !
L	excludeAccount	External !		onlyOwner
L	includeAccount	External !		onlyOwner
L	setAsCharityAccount	External !		onlyOwner
L	burn	Public !		NO !
L	_burn	Internal 		
L	_approve	Private 		
L	_transfer	Private 		
L	_transferStandard	Private 		
L	_standardTransferContent	Private 		
L	_transferToExcluded	Private 		
L	_excludedFromTransferContent	Private 		
L	_transferFromExcluded	Private 		
L	_excludedToTransferContent	Private 		

L	_transferBothExclud ed	Private 		
L	_bothTransferContent	Private 		
L	_reflectFee	Private 		
L	_getValues	Private 		
L	_getTBasics	Private 		
L	getTTTransferAmount	Private 		
L	_getRBasics	Private 		
L	_getRTransferAmount	Private 		
L	_getRate	Private 		
L	_getCurrentSupply	Private 		
L	_sendToCharity	Private 		
L	removeAllFee	Private 		
L	restoreAllFee	Private 		
L	_getTaxFee	Private 		

Legend

Symbol	Meaning
	Function can modify state
	Function is payable

Inheritance Hierarchy



Security issue checking status

- ❖ **High severity issues**
No high severity issues found.
- ❖ **Medium severity issues**
No medium severity issues found.
- ❖ **Low severity issues**
No low severity issues found.

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

- ❖ Owner can Include/exclude wallet from fees.

```
ftrace | funcSig
function excludeAccount(address account↑) external onlyOwner() {
    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 includeAccount(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;
        }
    }
}
```

- ❖ Owner can add multiple wallet as charity wallet.

```
ftrace | funcSig
function setAsCharityAccount(address account↑) external onlyOwner() {
    require(!_isCharity[account↑], "Account is already charity account");
    _isCharity[account↑] = true;
    FeeAddress = account↑;
}
```

- ❖ Owner can transfer the ownership.

```
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↑;
}
```

- ❖ Owner can renounce the ownership

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

Audit conclusion

While conducting the audit of the Kermit Token smart contract, it was observed that there is nothing alarming with the code.