



# **RugFreeCoins Audit**

**Queef Token**

**Smart Contract Security Audit**

**05<sup>th</sup> June 2021**



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# Audit details



## **Audited project**

Queef Token



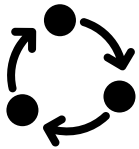
## **Deployer Address**

0x9bfbCf792FaA47A66aEd94CddC2793F3Fb1e7B47



## **Client contact**

Queef Token Team



## **Blockchain**

Binance smart chain



## **Project website**

<http://queeftoken.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 Queef Token to perform an audit of the smart contract.

<https://bscscan.com/address/0xee40498eb660383722d7cc07b4bce40d9e51a13f>

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, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

# About the project

QFT is a disruptive digital currency created to bring more inclusivity into the fold of cryptocurrency by creating an opportunity for women and women-run businesses to come together. There is also a targeted emphasis on promoting women in the music and art world. Described as female empowerment crypto, QFT is becoming increasingly popular, as more women business owners are accepting cryptocurrency as payment.

QFT is aiming to be a trailblazer and leader in inclusive cryptocurrency designed to meet the needs of entrepreneurs. The brain behind QFT is looking to make a difference, self-funding the project while also staying true to the conventional goal of cryptocurrency and blockchain technology.

QFT offers a holistic approach that seeks to focus on the needs of female-owned businesses as well as creating a path to bring the most inclusive crypto in the game.

In addition to helping business owners ease the process of accepting payment from their customers, the token was also created as a cryptocurrency that aids veterans and front-line workers. The Queef token's an all-inclusive ecosystem, with the community coming together to choose the most suitable cause to receive donations for firefighters, police, EMTs, and veterans.

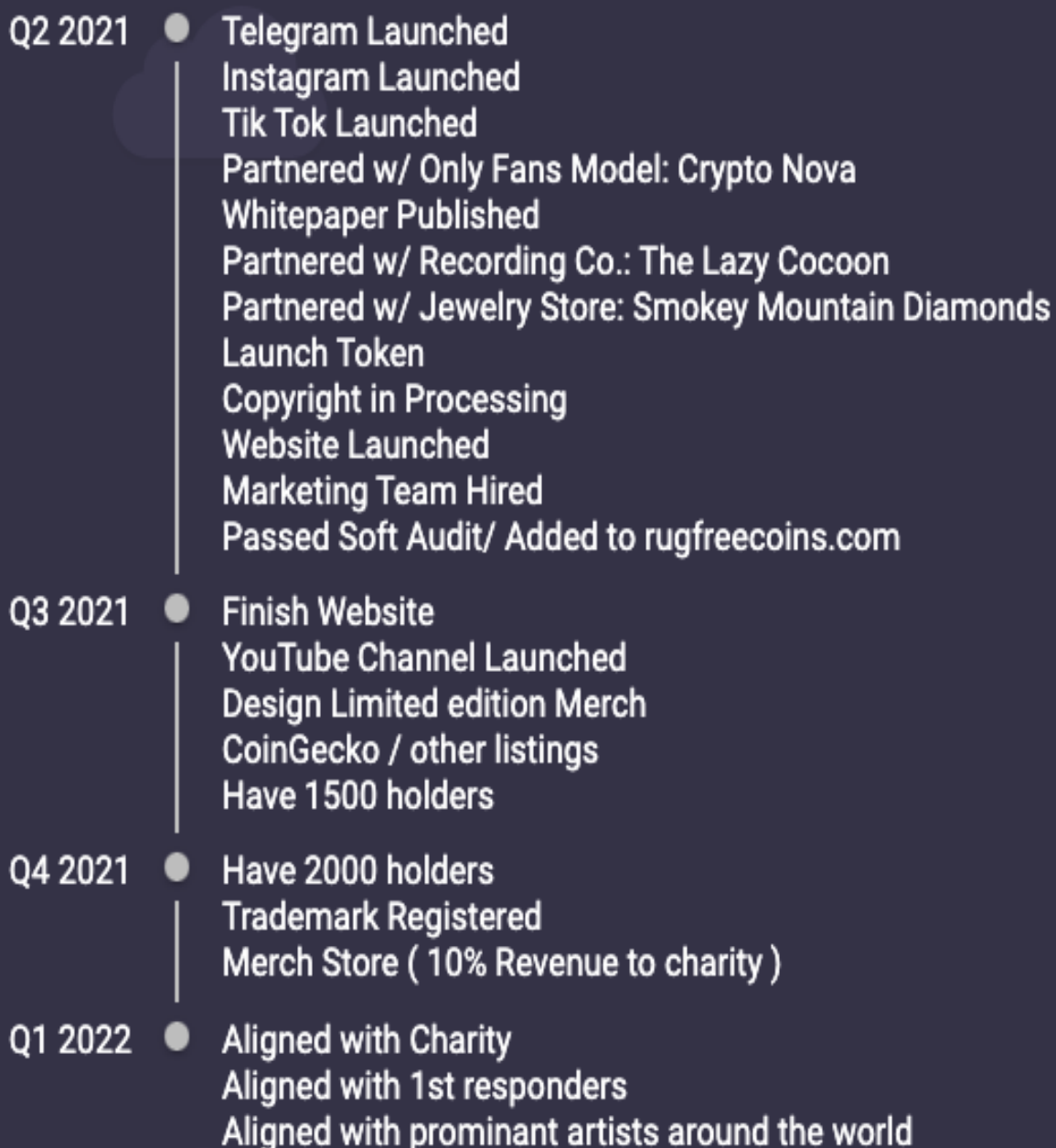
QFT also looks to help artists get their due royalties for every project put on digital platforms, such as iTunes and Spotify.

The token as well as the entire QFT ecosystem is open to everyone, regardless of their color, orientation, gender, background or belief.

## Tokenomics

- 4% of every trade goes to Liquidity Pool.
- 4% goes into HODLer pockets.

## Roadmap

- 
- A vertical timeline roadmap on a dark blue background. It features a central vertical line with circular markers at each quarter. To the left of the line are the time periods: Q2 2021, Q3 2021, Q4 2021, and Q1 2022. To the right of the line are lists of tasks and milestones for each period. The background has faint, stylized cloud shapes at the bottom.
- Q2 2021**
    - Telegram Launched
    - Instagram Launched
    - Tik Tok Launched
    - Partnered w/ Only Fans Model: Crypto Nova
    - Whitepaper Published
    - Partnered w/ Recording Co.: The Lazy Cocoon
    - Partnered w/ Jewelry Store: Smokey Mountain Diamonds
    - Launch Token
    - Copyright in Processing
    - Website Launched
    - Marketing Team Hired
    - Passed Soft Audit/ Added to rugfreecoins.com
  - Q3 2021**
    - Finish Website
    - YouTube Channel Launched
    - Design Limited edition Merch
    - CoinGecko / other listings
    - Have 1500 holders
  - Q4 2021**
    - Have 2000 holders
    - Trademark Registered
    - Merch Store ( 10% Revenue to charity )
  - Q1 2022**
    - Aligned with Charity
    - Aligned with 1st responders
    - Aligned with prominent artists around the world

# Target market, concept and the plan

## Target market

- Any entrepreneur/ business owner
- The main target market is women and women-run businesses.
- Anyone who is interested to get onboard regardless of their color, orientation, gender, background or belief.
- Investors to support the ecosystem

## Core concept

- To help business owners/entrepreneurs ease the process of accepting payment from the customers.
- To promote women in the music and art world.
- To aid veterans and front-line workers (firefighters, police, EMTs, and veterans)
- To help artists get their due royalties for every project put on digital platforms, such as iTunes and Spotify.

QFT is designed to create an artist-promoter-fan network and functionality. Open to everyone (color, orientation, gender, belief, culture). Ultimately, it will become the driving force (asset) behind SOS. Artists (musicians, performing artists, painters, sculptors, photographers, videographers, graphics designers, etc) who qualify (eligibility factors to be further established) can receive a certain amount of tokens, with which they can use to access events, services, deals, promotion, distribution, possibly even booking/touring support.

A lot of the artist - promoter networking will happen within the Queef app/web ecosystem. Music/art publishers, bloggers, booking agents, galleries, record companies would receive QFT to provide services to QFT holders. Fundraisers, NFT Art auctions, etc, can be purchased and held in QFT. Bands can also agree to sell their art, merchandise, tickets, etc in QFT as well as FIAT.

Encourage fans to tip artists in QFT during their performances, or as they are streaming their music on different platforms (Spotify, YouTube, etc). If not, the team is planning to develop a plug-in. When a user is playing a song in Spotify, the plugin would get the name of the artist and the song name, then allow the user to send a tip directly to, artist's wallet with a tap of a button, maybe accompanied with a message. Fans could get backstage passes and VIP access during shows, special content, etc.

Fans could reap rewards when holding QFT, tipping and purchasing items/art, and possibly win VIP/backstage access tickets to shows, festivals, coupons for associated retailers, or simply - OFT. Artists (musicians, performing artists, painters, sculptors, photographers, videographers,



graphics designers, etc) who qualify (eligibility factors to be further established) can receive a certain amount of tokens, with which they can use to access events, services, deals, promotion, distribution, possibly even booking/touring support.

A lot of the artist - promoter networking will happen within the Queef app/web ecosystem. Music/art publishers, bloggers, booking agents, galleries, record companies would receive QFT to provide services to QFT holders. Fundraisers, NFT Art auctions, etc, can be purchased and held in QFT.

Bands can also agree to sell their art, merchandise, tickets, etc in QFT as well as FIAT. Encourage fans to tip artists in QFT during their performances, or as they are streaming their music on different platforms (Spotify, YouTube, etc). If not, we could develop a plug-in. When a user is playing a song in Spotify, the plugin would get the name of the artist and the song name, then allow the user to send a tip directly to the artist's wallet with a tap of a button, maybe accompanied with a message. Fans could get backstage passes and vip access during shows, special content, etc. Fans could reap rewards when holding QFT, tipping and purchasing items/art, and possibly win VIP/backstage access tickets to shows, festivals, coupons for associated retailers, or simply - QFT.

## Potential to grow with score points

1. Project efficiency	8/10
2. Project uniqueness	9/10
3. Information quality	6/10
4. Service quality	7/10
5. System quality	6/10
6. Impact on the community	9/10
7. Impact on the business	9/10
8. Preparing for the future	9/10

**Total Points:** **7.875/10**

# Contract details

## Token contract details for 03.06.2021

<b>Contract name</b>	Queef Token
<b>Contract address</b>	0xee40498eb660383722d7cc07b4bce40d9e51a13f
<b>Token supply</b>	69, 696, 420, 420 QFT
<b>Token ticker</b>	QFT
<b>Decimals</b>	9
<b>Token holders</b>	795 addresses
<b>Transaction count</b>	3,739
<b>Top 100% holders dominance</b>	88.62%
<b>Contract deployer address</b>	0x9bfbCf792FaA47A66aEd94CddC2793F3Fb1e7B47
<b>Contract's current owner address</b>	0x7aeee86ec8756f49668b5b91b1eb979d506dd1b6

# Top token holders

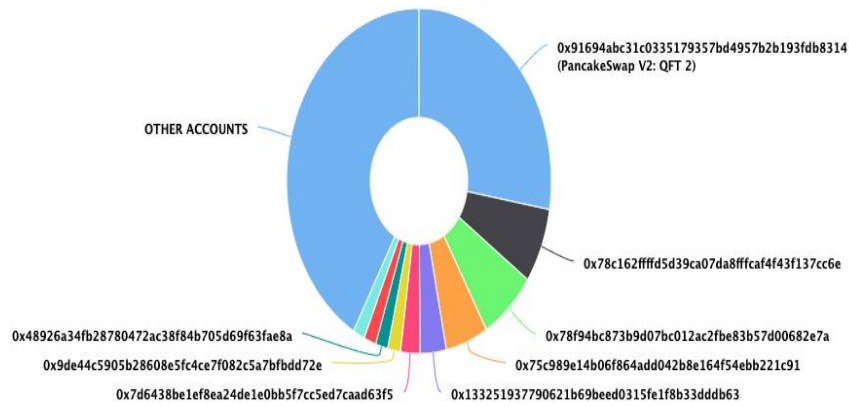
## Top 10 Token Holders

The top 10 holders collectively own 58.24% (40,593,845,298.24 Tokens) of Queef Token

Token Total Supply: 69,696,420,420.00 Token | Total Token Holders: 795

Queef Token Top 10 Token Holders

Source: BscScan.com



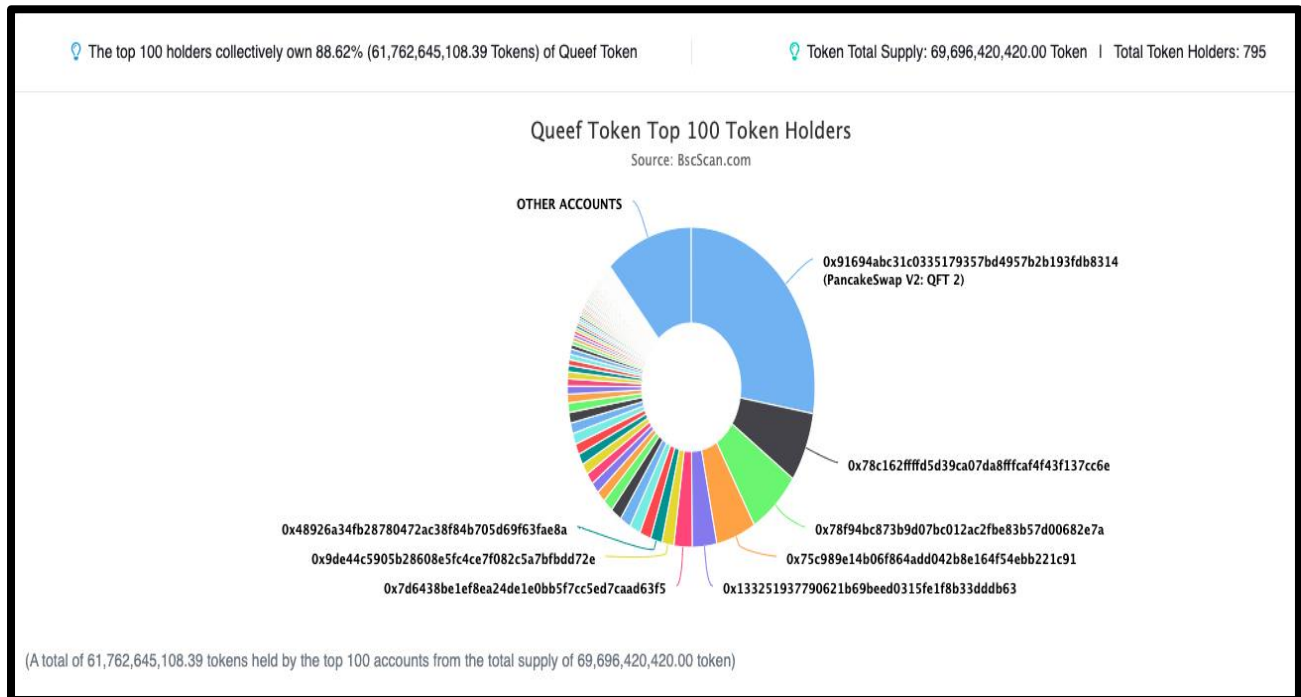
(A total of 40,593,845,298.24 tokens held by the top 10 accounts from the total supply of 69,696,420,420.00 token)

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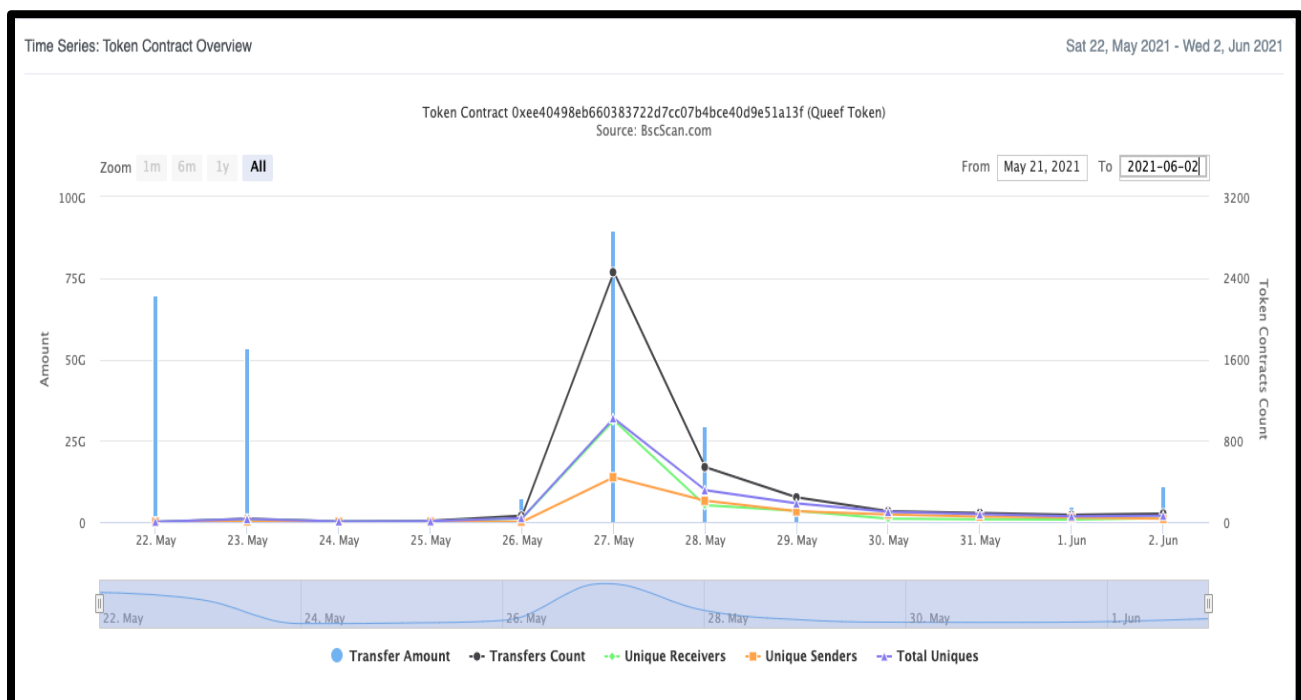
Rank	Address	Quantity (Token)	Percentage
1	<a href="#">PancakeSwap V2: QFT 2</a>	19,279,894,947.660952805	27.6627%
2	<a href="#">0x78c162fffd5d39ca07da8ffcaf4f43f137cc6e</a>	4,902,521,446.972064356	7.0341%
3	<a href="#">0x78f94bc873b9d07bc012ac2fbc83b57d00682e7a</a>	4,739,552,196.548733044	6.8003%
4	<a href="#">0x75c989e14b06f864add042b8e164f54ebb221c91</a>	3,624,213,329.629452535	5.2000%
5	<a href="#">0x133251937790621b69beed0315fe1f8b33ddb63</a>	2,220,392,171.7738	3.1858%
6	<a href="#">0x7d6438be1ef8ea24de1e0bb5f7cc5ed7caad63f5</a>	1,652,436,427.804844105	2.3709%
7	<a href="#">0x9de44c5905b28608e5fc4ce7f082c5a7bfbdd72e</a>	1,090,602,709.2965	1.5648%
8	<a href="#">0x48926a34fb28780472ac38f84b705d69f63fae8a</a>	1,044,344,250.7145	1.4984%
9	<a href="#">0xf9f989549f5db568cd0e852790b99b651a98ccf0</a>	1,039,887,817.839466359	1.4920%
10	<a href="#">0x4ad81951bf67d61c3b1bfd80834fb8ee0eda0ce1</a>	1,000,000,000	1.4348%

# Token distribution

## 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	Low Risk
		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	
3	Business security	Access control of owners	pass
		Business logics	pass
		Business implementations	pass
4	Integer overflow/underflow		Low risk
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




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
<b>IERC20</b>	<b>Interface</b>			
L	totalSupply	External !		NO!
L	balanceOf	External !		NO!
L	transfer	External !		NO!
L	allowance	External !		NO!
L	approve	External !		NO!
L	transferFrom	External !		NO!
<b>SafeMath</b>	<b>Library</b>			
L	add	Internal 		
L	sub	Internal 		









L	sub	Internal 		
L	mul	Internal 		
L	div	Internal 		
L	div	Internal 		
L	mod	Internal 		
L	mod	Internal 		
<b>Context</b>	<b>Implementation</b>			
L	_msgSender	Internal 		
L	_msgData	Internal 		
<b>Address</b>	<b>Library</b>			
L	isContract	Internal 		
L	sendValue	Internal 		
L	functionCall	Internal 		











L	functionCall	Internal 		
L	functionCallWithValue	Internal 		
L	functionCallWithValue	Internal 		
L	_functionCallWithValue	Private 		
<b>Ownable</b>	<b>Implementation</b>	<b>Context</b>		
L	owner	Public !		NO !
L	renounceOwnership	Public !		onlyOwner
L	transferOwnership	Public !		onlyOwner
L	geUnlockTime	Public !		NO !
L	lock	Public !		onlyOwner
L	unlock	Public !		NO !
<b>IUniswapV2Factory</b>	<b>Interface</b>			
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!
<b>IUniswapV2Pair</b>	<b>Interface</b>			
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	mint	External !		NO!
L	burn	External !		NO!
L	swap	External !		NO!
L	skim	External !		NO!
L	sync	External !		NO!
L	initialize	External !		NO!
<b>IUniswapV2Router01</b>	<b>Interface</b>			
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!
<b>IUniswapV2Router02</b>	<b>Interface</b>	<b>IUniswapV2Router01</b>		
L	removeLiquidityETHSupportingFeeOnTransferTokens	External !		NO!
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External !		NO!
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !		NO!
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External !		NO!
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External !		NO!
<b>CoinToken</b>	<b>Implementation</b>	<b>Context, IERC20, Ownable</b>		
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	isExcludedFromReward	Public !		NO !
L	totalFees	Public !		NO !
L	deliver	Public !		NO !
L	reflectionFromToken	Public !		NO !
L	tokenFromReflection	Public !		NO !
L	excludeFromReward	Public !		onlyOwner
L	includeInReward	External !		onlyOwner
L	_transferBothExcluded	Private 		



L	excludeFromFee	Public !		onlyOwner
L	includeInFee	Public !		onlyOwner
L	setTaxFeePercent	External !		onlyOwner
L	setLiquidityFeePercent	External !		onlyOwner
L	setNumTokensSellToAddToLiquidity	Public !		onlyOwner
L	setMaxTxPercent	Public !		onlyOwner
L	setSwapAndLiquifyEnabled	Public !		onlyOwner
L		External !		NO !
L	_reflectFee	Private 		
L	_getValues	Private 		
L	_getTValues	Private 		
L	_getRValues	Private 		
L	_getRate	Private 		
L	_getCurrentSupply	Private 		

L	_takeLiquidity	Private 		
L	claimTokens	Public !		onlyOwner
L	calculateTaxFee	Private 		
L	calculateLiquidityFee	Private 		
L	removeAllFee	Private 		
L	restoreAllFee	Private 		
L	isExcludedFromFee	Public !		NO !
L	_approve	Private 		
L	_transfer	Private 		
L	swapAndLiquify	Private 		lockTheSwap
L	swapTokensForEth	Private 		
L	addLiquidity	Private 		
L	_tokenTransfer	Private 		
L	_transferStandard	Private 		

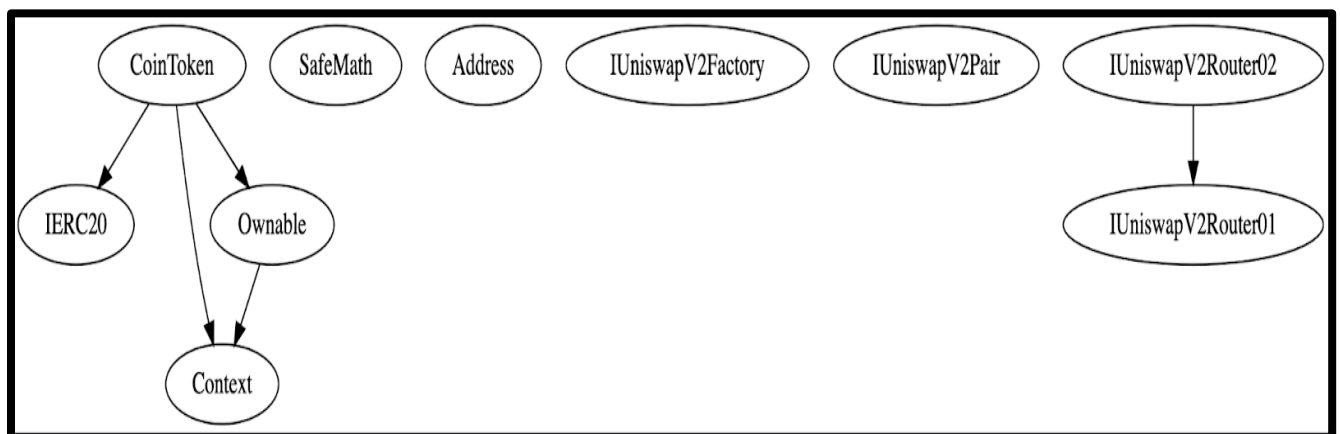


L	<code>_transferToExcluded</code>	Private 		
L	<code>_transferFromExcluded</code>	Private 		

### 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

### 1. Out of gas

#### Issue:

- The function `includeInReward()` uses the loop to find and remove addresses from the `_excluded` list. Function will be aborted with `OUT_OF_GAS` exception if there will be a long excluded addresses list.

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

ftrace | funcSig
function setLiquidityFeePercent(uint256 liquidityFee↑) external onlyOwner() {
    _liquidityFee = liquidityFee↑;
}
```

- The function `_getCurrentSupply` also uses the loop for evaluating total supply. It also could be aborted with `OUT_OF_GAS` exception if there will be a long excluded addresses list.

```
ftrace | funcSig
function _getCurrentSupply() private view returns (uint256, uint256) {
    uint256 rSupply = _rTotal;
    uint256 tSupply = _tTotal;
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (
            _rOwned[_excluded[i]] > rSupply ||
            _tOwned[_excluded[i]] > tSupply
        ) return (_rTotal, _tTotal);
        rSupply = rSupply.sub(_rOwned[_excluded[i]]);
        tSupply = tSupply.sub(_tOwned[_excluded[i]]);
    }
    if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
    return (rSupply, tSupply);
}
```

#### Recommendation:

Check that the excluded array length is not too big.

# Owner privileges

(In the period when the owner is not renounced)

- ❖ Owner can change the tax and liquidity fee

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

ftrace | funcSig
function setLiquidityFeePercent(uint256 liquidityFee↑) external onlyOwner() {
    _liquidityFee = liquidityFee↑;
}
```

- ❖ Owner can change the maximum transaction amount

```
ftrace | funcSig
function setMaxTxPercent(uint256 maxTxPercent↑) public onlyOwner {
    _maxTxAmount = maxTxPercent↑ * 10 ** _decimals;
}
```

- ❖ Owner can exclude from the fee

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

ftrace | funcSig
```

- ❖ Owner can lock and unlock. BTW using these functions the owner could leave as owner ever after the ownership was renounced. Once the ownership is transferred to the new owner the transfer state saves the timestamp of the ownership transferred action. Within the 7 days of the time period owner can not initiate another ownership transfer action.

```
//Locks the contract for owner for the amount of time provided
ftrace | funcSig
function lock(uint256 time↑) public virtual onlyOwner {
    _previousOwner = _owner;
    _owner = address(0);
    _lockTime = now + time↑;
    emit OwnershipTransferred(_owner, address(0));
}

//Unlocks the contract for owner when _lockTime is exceeds
ftrace | funcSig
function unlock() public virtual {
    require(
        _previousOwner == msg.sender,
        "You don't have permission to unlock"
    );
    require(now > _lockTime, "Contract is locked until 7 days");
    emit OwnershipTransferred(_owner, _previousOwner);
    _owner = _previousOwner;
}
}
```

# Audit conclusion

While conducting the audit of the Queef Token smart contract, it was observed that the contract contains only low severity issues.

Liquidity locking details provided by the team can be found through this link.

<https://dxsale.app/app/pages/dxlockview?id=0&add=0x7AeEE86EC8756f49668b5b91b1EB979d506dD1b6&type=lplock&chain=BSC>

