



SMART CONTRACT SECURITY AUDIT

Poor Quack

February, 2022

Website: soken.io

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Disclaimer

This is a comprehensive report based on our automated and manual examination of cybersecurity vulnerabilities and framework flaws. We took into consideration smart contract based algorithms, as well. Reading the full analysis report is essential to build your understanding of project's security level. It is crucial to take note, though we have done our best to perform this analysis and report, that you should not rely on the our research and cannot claim what it states or how we created it. Before making any judgments, you have to conduct your own independent research. We will discuss this in more depth in the following disclaimer - please read it fully.

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Security analysis is based only on the smart contracts. No applications or operations were reviewed for security. No product code has been reviewed.

Procedure

Our analysis contains following steps:

1. Project Analysis;

2. Manual analysis of smart contracts:

- Deploying smart contracts on any of the network(Ropsten/Rinkeby) using Remix IDE
- Hashes of all transaction will be recorded
- Behaviour of functions and gas consumption is noted, as well.

3. Unit Testing:

- Smart contract functions will be unit tested on multiple parameters and under multiple conditions to ensure that all paths of functions are functioning as intended.
- In this phase intended behaviour of smart contract is verified.
- In this phase, we would also ensure that smart contract functions are not consuming unnecessary gas.
- Gas limits of functions will be verified in this stage.

4. Automated Testing:

- Mythril
- Oyente
- Manticore
- Solgraph

Terminology

We categorize the finding into 4 categories based on their vulnerability:

- Low-severity issue — less important, must be analyzed
- Medium-severity issue — important, needs to be analyzed and fixed
- High-severity issue — important, might cause vulnerabilities, must be analyzed and fixed
- Critical-severity issue — serious bug causes, must be analyzed and fixed.

Limitations

The security audit of Smart Contract cannot cover all vulnerabilities. Even if no vulnerabilities are detected in the audit, there is no guarantee that future smart contracts are safe. Smart contracts are in most cases safeguarded against specific sorts of attacks. In order to find as many flaws as possible, we carried out a comprehensive smart contract audit. Audit is a document that is not legally binding and guarantees nothing.

Token Contract Details for 05.02.2022

Contract Name: **PoorQuackOT**

Deployed address: **0x682cA13182eCA9e5230d8654215037815288B556**

Total Supply: **100,000,000,000,000**

Token Tracker: **POOR**

Decimals: **18**

Token holders: **1996**

Transactions count: **6977**

Top 100 holders dominance: **99.24%**

Audit Details



Project Name: **Poor Quack**

Language: **Solidity**

Compiler Version: **v0.6.12**

Blockchain: **BSC**

Social Profiles

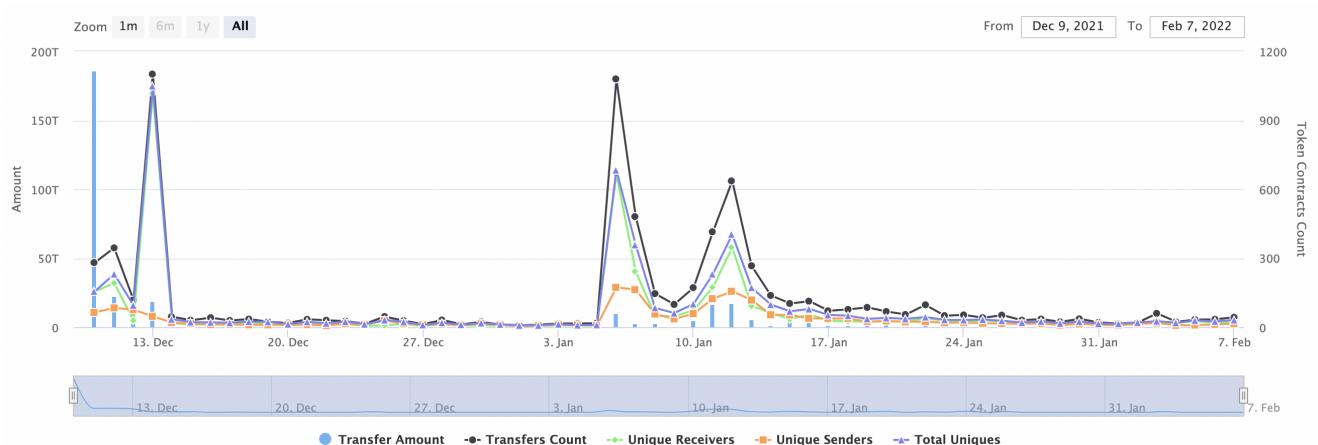
Project Website: <https://www.poorquack.com>

Project Telegram: <https://t.me/PoorQuack>

Project Twitter: <https://twitter.com/PoorQuack>

Project Instagram: <https://www.instagram.com/poorquack/>

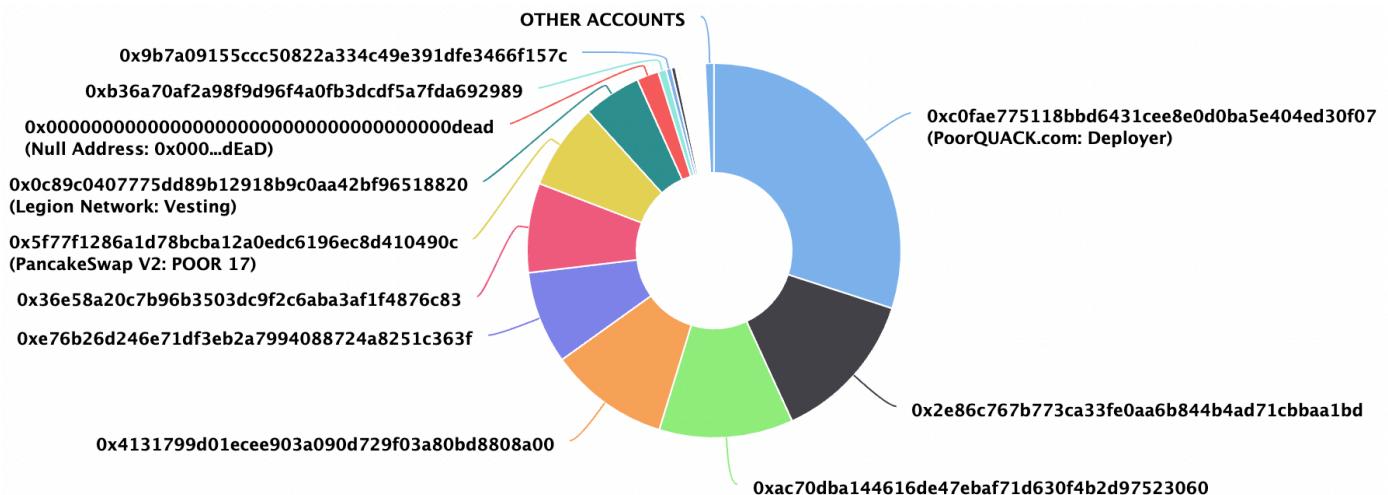
Contract Analytics



KYC Passed

The CEO of Poor Quack project has passed KYC verification on behalf of Soken team. All personal data received from audited company will remain private until any fraudulent activity will happen.

POOR Token Distribution



POOR Top Holders

Rank	Address	Quantity (Token)	Percentage
1	PoorQUACK.com: Deployer	29,999,999,405,674.508789165362487362	30.0000%
2	0x2e86c767b773ca33fe0aa6b844b4ad71cbbaa1bd	13,158,707,976,175.740937090865419305	13.1587%
3	0xac70dba144616de47ebaf71d630f4b2d97523060	11,587,041,647,986.547110550728921356	11.5870%
4	0x4131799d01ecee903a090d729f03a80bd8808a00	10,372,133,424,712.893977489638632785	10.3721%
5	0xe76b26d246e71df3eb2a7994088724a8251c363f	8,000,000,000,000	8.0000%
6	0x36e58a20c7b96b3503dc9f2c6aba3af1f4876c83	7,716,786,098,288.524610145412968527	7.7168%
7	0x5f77f1286a1d78bcba12a0edc6196ec8d410490c (PancakeSwap V2: POOR 17)	7,439,616,032,293.915026991888945319	7.4396%
8	0xLegion Network: Vesting	5,000,000,000,000	5.0000%
9	0xNull Address: 0x000...dEaD	1,892,033,805,733.106515725978824573	1.8920%
10	0xb36a70af2a98f9d96f4a0fb3dcdf5a7fda692989	713,117,368,523.160178499571104592	0.7131%

Note: 0xc0fae775118bbd6431cee8e0d0ba5e404ed30f07 contains 30% of POOR. Tokens on that address are unlocked and its purpose is to fill staking contracts.

Swap Analysis

- ✓ Token is sellable (not a honeypot) at this time
- ✗ Buy fee less than 10% (14%)
- ✗ Sell fee: first 24h = 22%; 24h-72h = 18%; > 72 h = 14%

Contract Analysis

- ✓ Verified contract source
- ✓ No prior similar token contracts
- ✓ Source does not contain a proxy contract
- ✓ Source does not contain a pausable contract
- ✗ Ownership renounced or source does not contain an owner contract.

Contract Analysis

- ✓ Adequate liquidity present (167.21 BNB)
- ✓ At least 95% of liquidity burned/locked (98%)
- ✓ Owner/creator wallet contains less than 5% of liquidity

Liquidity and team tokens is locked with TrustSwap:

POOR Lock Events					
Locked Pancake LPs- 2,965,709.92 Cake-LP (8.41%)					
	LOCKED	Locked 01/19/2022 • Unlocks 03/06/2022	UNLOCK COUNTDOWN	<div style="width: 100%;"><div style="width: 100%;"> </div></div>	VIEW TX ↗
Owner:	0xc0fAE775118Bbd6431cEE8E0D0BA5E404Ed30f07	25D - 19H - 39M - 46S			
Locked Pancake LPs- 2,023,862.33 Cake-LP (5.74%)					
	LOCKED	Locked 01/13/2022 • Unlocks 03/06/2022	UNLOCK COUNTDOWN	<div style="width: 100%;"><div style="width: 100%;"> </div></div>	VIEW TX ↗
Owner:	0xc0fAE775118Bbd6431cEE8E0D0BA5E404Ed30f07	25D - 20H - 22M - 50S			
Locked Pancake LPs- 1,832,831.53 Cake-LP (5.20%)					
	LOCKED	Locked 01/10/2022 • Unlocks 03/06/2022	UNLOCK COUNTDOWN	<div style="width: 100%;"><div style="width: 100%;"> </div></div>	VIEW TX ↗
Owner:	0xc0fAE775118Bbd6431cEE8E0D0BA5E404Ed30f07	26D - 5H - 32M - 27S			
Locked Pancake LPs- 27,658,633.37 Cake-LP (78.39%)					
	LOCKED	Locked 12/10/2021 • Unlocks 03/10/2022	UNLOCK COUNTDOWN	<div style="width: 100%;"><div style="width: 100%;"> </div></div>	VIEW TX ↗
Owner:	0xc0fAE775118Bbd6431cEE8E0D0BA5E404Ed30f07	30D - 5H - 24M - 26S			
Locked PoorQUACK.com Tokens- 5,000,000,000,000.00 POOR					
	LOCKED	Locked 12/10/2021 • Unlocks 06/10/2022	UNLOCK COUNTDOWN	<div style="width: 100%;"><div style="width: 100%;"> </div></div>	VIEW TX ↗
Owner:	0xc0fAE775118Bbd6431cEE8E0D0BA5E404Ed30f07	122D - 3H - 24M - 33S			

[https://www.team.finance/view-coin/
0x682cA13182eCA9e5230d8654215037815288B556?
name=PoorQUACK.com&symbol=POOR](https://www.team.finance/view-coin/0x682cA13182eCA9e5230d8654215037815288B556?name=PoorQUACK.com&symbol=POOR)

Project Website Overview

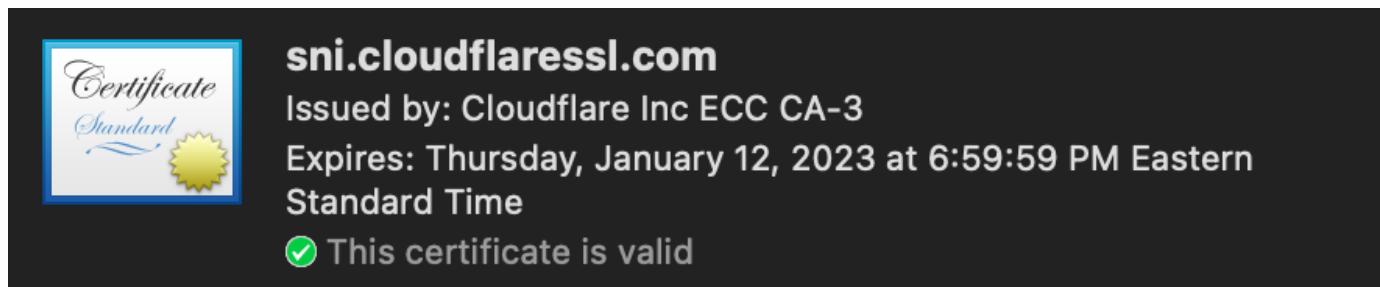


The screenshot shows the homepage of the Poor Quack project. At the top, there's a navigation bar with links: About POOR, Tokenomics, Roadmap, Distribution, Team, Whitepaper, and Dashboard & Staking. Below the navigation, a large banner features a cartoon duck wearing a crown. The text on the banner reads "HELP POOR TO BECOME RICH!" and "Let's quack our way to \$1B market cap!". It also mentions a "Certik Audit in progress". There are buttons for "Buy Now on PancakeSwap" and "View Products". At the bottom of the banner, it says "BSC Contract: 0x682cA13182eCA9e5230d8654215037815288B556".

WHAT IS POOR QUACK

- ✓ JavaScript errors hasn't been found.
- ✓ Malware pop-up windows hasn't been detected.
- ✓ No issues with loading elements, code, or stylesheets.

Project Website SSL Certification



The screenshot shows a certificate from Cloudflare. It includes the text "sni.cloudflaressl.com", "Issued by: Cloudflare Inc ECC CA-3", "Expires: Thursday, January 12, 2023 at 6:59:59 PM Eastern Standard Time", and a green checkmark indicating "This certificate is valid".

Project Website Performance Audit

↗ <https://poorquack.com/>



Performance

Values are estimated and may vary. The [performance score](#) is calculated directly from these metrics. [See calculator.](#)

▲ 0–49 ■ 50–89 ● 90–100



METRICS

[Expand view](#)

● First Contentful Paint

0.7 s

● Speed Index

1.1 s

■ Largest Contentful Paint

1.8 s

● Time to Interactive

0.7 s

● Total Blocking Time

0 ms

● Cumulative Layout Shift

0.003

Project Website Optimization for Mobile

↗ <https://poorquack.com/>



Performance

Values are estimated and may vary. The [performance score](#) is calculated directly from these metrics. [See calculator.](#)

▲ 0–49 ■ 50–89 ● 90–100



METRICS

[Expand view](#)

■ First Contentful Paint

2.9 s

■ Speed Index

5.4 s

▲ Largest Contentful Paint

14.1 s

▲ Time to Interactive

8.7 s

▲ Total Blocking Time

860 ms

■ Cumulative Layout Shift

0.113

Contract Function Details

+ Contract Source Code

- [Ext] feeTo
- [Ext] feeToSetter
- [Ext] getPair
- [Ext] allPairs
- [Ext] allPairsLength
- [Ext] createPair
- [Ext] setFeeTo
- [Ext] setFeeToSetter
- [Ext] name
- [Ext] symbol
- [Ext] decimals
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] allowance
- [Ext] approve
- [Ext] transfer
- [Ext] transferFrom
- [Ext] DOMAIN_SEPARATOR
- [Ext] PERMIT_TYPEHASH
- [Ext] nonces
- [Ext] permit
- [Ext] MINIMUM_LIQUIDITY
- [Ext] factory
- [Ext] token0
- [Ext] token1
- [Ext] getReserves
- [Ext] price0CumulativeLast
- [Ext] price1CumulativeLast
- [Ext] kLast
- [Ext] mint
- [Ext] burn
- [Ext] swap
- [Ext] skim
- [Ext] sync
- [Ext] initialize
- [Ext] factory
- [Ext] WETH
- [Ext] addLiquidity
- [Ext] addLiquidityETH
- [Ext] removeLiquidity
- [Ext] removeLiquidityETH
- [Ext] removeLiquidityWithPermit

- [Ext] removeLiquidityETHWithPermit
- [Ext] swapExactTokensForTokens
- [Ext] swapTokensForExactTokens
- [Ext] swapExactETHForTokens
- [Ext] swapTokensForExactETH
- [Ext] swapExactTokensForETH
- [Ext] swapETHForExactTokens
- [Ext] quote
- [Ext] getAmountOut
- [Ext] getAmountIn
- [Ext] getAmountsOut
- [Ext] getAmountsIn
- [Ext] removeLiquidityETHSupportingFeeOnTransferTokens
- [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens
- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens
- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens
- [Int] isContract
- [Int] sendValue
- [Int] functionCall
- [Int] functionCall
- [Int] functionCallWithValue
- [Int] functionCallWithValue
- [Int] functionStaticCall
- [Int] functionStaticCall
- [Prv] _verifyCallResult
- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer
- [Ext] allowance
- [Ext] approve
- [Ext] transferFrom
- [Int] _msgSender
- [Int] _msgData
- [Pub] owner
- [Pub] renounceOwnership
- [Pub] transferOwnership

- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer
- [Pub] allowance
- [Pub] approve
- [Pub] transferFrom
- [Pub] increaseAllowance
- [Pub] decreaseAllowance
- [Pub] isExcluded
- [Pub] totalFees
- [Prv] removeTax
- [Prv] restoreTax
- [Pub] reflect
- [Pub] reflectionFromToken
- [Pub] tokenFromReflection
- [Ext] excludeAccount
- [Ext] includeAccount
- [Prv] _approve
- [Prv] _isBuy
- [Prv] _transfer
- [Prv] _transferStandard
- [Prv] _transferToExcluded
- [Prv] _transferFromExcluded
- [Prv] _transferBothExcluded
- [Prv] _reflectFee
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply
- [Ext] setMaxTrans
- [Ext] _setTotalTax
- [Ext] _set24Tax
- [Ext] _set72Tax
- [Ext] _setRefPer
- [Ext] _setMegaPumpPer
- [Ext] _setAutoLiqPer
- [Ext] _setBuyBacksPer
- [Ext] _setMarketingPer
- [Ext] _setMinTokensForLiquidity
- [Ext] _setLockLiquiditiesEnabled
- [Ext] _setAutoTaxEnabled

- [Pub] _doTokenomics
- [Prv] _doLiquidity
- [Prv] _doMegaPump
- [Prv] _doBuyBack
- [Prv] _doMarketing
- [Prv] _findPercent
- [Prv] swapTokensForEth
- [Prv] addLiquidity
- [Pub] marketingFallBack
- [Pub] setRouterAddress
- [Pub] setMegaPumpWallet
- [Pub] setBuyBackWallet
- [Pub] setMarketingWallet

Vulnerabilities checking

Issue Description	Checking Status
Compiler Errors	Completed
Delays in Data Delivery	Completed
Re-entrancy	Completed
Transaction-Ordering Dependence	Completed
Timestamp Dependence	Completed
Shadowing State Variables	Completed
DoS with Failed Call	Completed
DoS with Block Gas Limit	Completed
Outdated Complier Version	Completed
Assert Violation	Completed
Use of Deprecated Solidity Functions	Completed
Integer Overflow and Underflow	Completed
Function Default Visibility	Completed
Malicious Event Log	Completed
Math Accuracy	Completed
Design Logic	Completed
Fallback Function Security	Completed
Cross-function Race Conditions	Completed
Safe Zeppelin Module	Completed

Security Issues

1) Owner Privileges

The contract contains ownership functionality and ownership is not renounced which allows the creator or current owner to modify contract behaviour (for example, disable selling or mint new tokens).

2) Volatile Code:

The return values of functions

`swapExactTokensForETHSupportingFeeOnTransferTokens` and

`addLiquidityETH` are not properly handled.

Recommendation:

We recommend using variables to receive the return value of the functions mentioned above and handle both success and failure cases if needed by the business logic.

Conclusion

Low-severity issues exist within smart contracts. Smart contracts are free from any critical or high-severity issues.

NOTE: Please check the disclaimer above and note, that audit makes no statements or warranties on business model, investment attractiveness or code sustainability.

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