

TechRate  
March, 2022



# SMART CONTRACTS SECURITY AUDIT REPORT



Techrate\_audits



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Techrate1

# Audit Details



Audited project

ShitFace Inu



Deployer address

0x06de5b571ba1dcf572748852ca4939ef0db71829



Client contacts:

ShitFace Inu team



Blockchain

Binance Smart Chain



Project website:

<https://shitfaceinu.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 below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

# Background

**TechRate was commissioned by ShitFace Inu to perform an audit of smart contracts:**

<https://bscscan.com/address/0x190984cb2e74332c2c9017f4998e382fc31dc2d5#code>

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

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.

# Contracts Details

## Token contract details for 17.03.2022

**Contract name** ShitFace Inu

**Contract address** 0x190984cB2E74332c2c9017f4998E382fc31DC2D5

**Total supply** 420,000,000,000,000

**Token ticker** SFINU

**Decimals** 18

**Token holders** 1

**Transactions count** 2

**Top 100 holders dominance** 100.00%

**Dividend tracker** 0x9efa6c83ccb51be7e8be2cbe6a46061aedd5ddb

**Base buy fees** 1/4/1/1/3

**Base sell fees** 1/4/1/1/3

**Uniswap V2 pair** 0x0f1da861152131e17bff53b1296ed81cc5faabad

**Contract deployer address** 0x06de5b571ba1dcf572748852ca4939ef0db71829

**Owner address** 0xb83a423fc88602d73eb1402f0325719ae4ed94f2

# ShitFace Inu Token Distribution

The top 100 holders collectively own 100.00% (420,000,000,000,000.00 Tokens) of ShitFace Inu

Token Total Supply: 420,000,000,000,000.00 Token | Total Token Holders: 1

## ShitFace Inu Top 100 Token Holders

Source: BscScan.com



(A total of 420,000,000,000,000.00 tokens held by the top 100 accounts from the total supply of 420,000,000,000,000.00 token)

# ShitFace Inu Contract Interaction Details

Time Series: Token Contract Overview

Tue 8, Mar 2022 - Wed 9, Mar 2022

Token Contract 0x190984cb2e74332c2c9017f4998e382fc31dc2d5 (ShitFace Inu)  
Source: BscScan.com



# ShitFace Inu Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	<a href="#">0xb83a423fc88602d73eb1402f0325719ae4ed94f2</a>	420,000,000,000,000	100.0000%

# Contract functions details

## + Context

- [Int] \_msgSender
- [Int] \_msgData

## + [Int] IUniswapV2Factory

- [Ext] feeTo
- [Ext] feeToSetter
- [Ext] getPair
- [Ext] allPairs
- [Ext] allPairsLength
- [Ext] createPair #
- [Ext] setFeeTo #
- [Ext] setFeeToSetter #

## + [Int] IUniswapV2Router01

- [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

## + [Int] IUniswapV2Router02 (IUniswapV2Router01)

- [Ext] removeLiquidityETHSupportingFeeOnTransferTokens #
- [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens #
- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #



+ [Int] IUniswapV2Pair

- [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 #

+ [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

+ [Int] IERC20Metadata (IERC20)

- [Ext] name
- [Ext] symbol
- [Ext] decimals

+ [Int] DividendPayingTokenInterface

- [Ext] dividendOf

- [Ext] distributeDividends (\$)
- [Ext] withdrawDividend #

+ [Int] DividendPayingTokenOptionalInterface

- [Ext] withdrawableDividendOf
- [Ext] withdrawnDividendOf
- [Ext] accumulativeDividendOf

+ [Lib] SafeMath

- [Int] add
- [Int] sub
- [Int] sub
- [Int] mul
- [Int] div
- [Int] div
- [Int] mod
- [Int] mod

+ [Lib] SafeMathInt

- [Int] mul
- [Int] div
- [Int] sub
- [Int] add
- [Int] abs
- [Int] toUint256Safe

+ [Lib] SafeMathUint

- [Int] toInt256Safe

+ [Lib] IterableMapping

- [Pub] get
- [Pub] getIndexOfKey
- [Pub] getKeyAtIndex
- [Pub] size
- [Pub] set #
- [Pub] remove #

+ Ownable (Context)

- [Pub] <Constructor> #
- [Pub] owner
- [Pub] renounceOwnership #
  - modifiers: onlyOwner
- [Pub] transferOwnership #
  - modifiers: onlyOwner

+ ERC20 (Context, IERC20, IERC20Metadata)

- [Pub] <Constructor> #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Int] \_transfer #
- [Int] \_mint #
- [Int] \_burn #
- [Int] \_approve #
- [Int] \_beforeTokenTransfer #

+ DividendPayingToken (ERC20, Ownable, DividendPayingTokenInterface, DividendPayingTokenOptionalInterface)

- [Pub] <Constructor> #
  - modifiers: ERC20
- [Ext] <Fallback> (\$)
- [Pub] distributeDividends (\$)
  - modifiers: onlyOwner
- [Pub] withdrawDividend #
  - modifiers: onlyOwner
- [Int] \_withdrawDividendOfUser #
- [Prv] swapBNBForTokensAndWithdrawDividend #
- [Pub] dividendOf
- [Pub] withdrawableDividendOf
- [Pub] withdrawnDividendOf
- [Pub] accumulativeDividendOf
- [Int] \_transfer #
- [Int] \_mint #
- [Int] \_burn #
- [Int] \_setBalance #
- [Int] \_setRewardToken #
  - modifiers: onlyOwner
- [Int] \_setUniswapRouter #
  - modifiers: onlyOwner

+ ShitFaceInu (Ownable, ERC20)

- [Pub] <Constructor> #

- modifiers: ERC20
- [Ext] <Fallback> (\$)
- [Pub] decimals
- [Prv] \_getNow
- [Pub] launch #
  - modifiers: onlyOwner
- [Pub] cancelLaunch #
  - modifiers: onlyOwner
- [Pub] activateTrading #
  - modifiers: onlyOwner
- [Pub] deactivateTrading #
  - modifiers: onlyOwner
- [Pub] updateDividendTracker #
  - modifiers: onlyOwner
- [Prv] \_setAutomatedMarketMakerPair #
- [Pub] allowTradingWhenDisabled #
  - modifiers: onlyOwner
- [Pub] excludeFromFees #
  - modifiers: onlyOwner
- [Pub] excludeFromDividends #
  - modifiers: onlyOwner
- [Pub] excludeFromMaxWalletLimit #
  - modifiers: onlyOwner
- [Pub] blockAccount #
  - modifiers: onlyOwner
- [Pub] unblockAccount #
  - modifiers: onlyOwner
- [Pub] setFeeOnWalletTransfers #
  - modifiers: onlyOwner
- [Pub] setWallets #
  - modifiers: onlyOwner
- [Pub] setStakingAddress #
  - modifiers: onlyOwner
- [Pub] setAllFeesToZero #
  - modifiers: onlyOwner
- [Pub] resetAllFees #
  - modifiers: onlyOwner
- [Pub] setBaseFeesOnBuy #
  - modifiers: onlyOwner
- [Pub] setBaseFeesOnSell #
  - modifiers: onlyOwner
- [Pub] setLaunch2FeesOnBuy #
  - modifiers: onlyOwner
- [Pub] setLaunch2FeesOnSell #
  - modifiers: onlyOwner

- [Pub] setLaunch3FeesOnBuy #
    - modifiers: onlyOwner
  - [Pub] setLaunch3FeesOnSell #
    - modifiers: onlyOwner
  - [Pub] setUniswapRouter #
    - modifiers: onlyOwner
  - [Pub] setGasForProcessing #
    - modifiers: onlyOwner
  - [Pub] setMaxWalletAmount #
    - modifiers: onlyOwner
  - [Pub] setMinimumTokensBeforeSwap #
    - modifiers: onlyOwner
  - [Pub] setMinimumTokenBalanceForDividends #
    - modifiers: onlyOwner
  - [Ext] claim #
  - [Ext] claimBNBOverflow #
    - modifiers: onlyOwner
  - [Ext] isInLaunch
  - [Ext] getTotalDividendsDistributed
  - [Pub] withdrawableDividendOf
  - [Pub] dividendTokenBalanceOf
  - [Ext] getAccountDividendsInfo
  - [Ext] getNumberOfDividendTokenHolders
  - [Ext] getBaseBuyFees
  - [Ext] getBaseSellFees
  - [Int] \_transfer #
  - [Prv] \_adjustTaxes #
  - [Prv] \_setCustomSellTaxPeriod #
  - [Prv] \_setCustomBuyTaxPeriod #
  - [Prv] \_swapAndLiquify #
  - [Prv] \_swapTokensForBNB #
  - [Prv] \_addLiquidity #
- + ShitFaceInuDividendTracker (DividendPayingToken)
- [Pub] <Constructor> #
    - modifiers: DividendPayingToken
  - [Ext] setRewardToken #
    - modifiers: onlyOwner
  - [Ext] setUniswapRouter #
    - modifiers: onlyOwner
  - [Int] \_transfer #
  - [Ext] excludeFromDividends #
    - modifiers: onlyOwner
  - [Ext] setTokenBalanceForDividends #
    - modifiers: onlyOwner

- [Ext] updateClaimWait #
  - modifiers: onlyOwner
- [Ext] getLastProcessedIndex
- [Ext] getNumberOfTokenHolders
- [Pub] getAccount
- [Pub] getAccountAtIndex
- [Prv] canAutoClaim
- [Ext] setBalance #
  - modifiers: onlyOwner
- [Pub] process #
  - modifiers: onlyOwner
- [Pub] processAccount #
  - modifiers: onlyOwner

(\$) = payable function

# = non-constant function

# Issues Checking Status

Issue description	Checking status
1. <b>Compiler errors.</b>	Passed
2. <b>Race conditions and Reentrancy. Cross-function race conditions.</b>	Passed
3. <b>Possible delays in data delivery.</b>	Passed
4. <b>Oracle calls.</b>	Passed
5. <b>Front running.</b>	Passed
6. <b>Timestamp dependence.</b>	Passed
7. <b>Integer Overflow and Underflow.</b>	Passed
8. <b>DoS with Revert.</b>	Passed
9. <b>DoS with block gas limit.</b>	Passed
10. <b>Methods execution permissions.</b>	Passed
11. <b>Economy model of the contract.</b>	Passed
12. <b>The impact of the exchange rate on the logic.</b>	Passed
13. <b>Private user data leaks.</b>	Passed
14. <b>Malicious Event log.</b>	Passed
15. <b>Scoping and Declarations.</b>	Passed
16. <b>Uninitialized storage pointers.</b>	Passed
17. <b>Arithmetic accuracy.</b>	Passed
18. <b>Design Logic.</b>	Passed
19. <b>Cross-function race conditions.</b>	Passed
20. <b>Safe Open Zeppelin contracts implementation and usage.</b>	Passed
21. <b>Fallback function security.</b>	Passed

# Security Issues

## ✓ High Severity Issues

No high severity issues found.

## ✓ Medium Severity Issues

No medium severity issues found.

## ✓ Low Severity Issues

No low severity issues found.

### Notes:

- totalBNBFee includes staking fee in \_swapAndLiquify function.



## Owner privileges (In the period when the owner is not renounced)

- Owner can launch/stop the contract.
- Owner can enable/disable trading.
- Owner can change dividend tracker.
- Owner can include addresses in `_isAllowedToTradeWhenDisabled` array.
- Owner can exclude from fees, dividends, max wallet limit.
- Owner can block/unblock accounts.
- Owner can enable/disable `_feeOnWalletTranfers`.
- Owner can change all fees.
- Owner can change fee receivers addresses.
- Owner can change router address.
- Owner can change gas for processing.
- Owner can change `maxWalletAmount`.
- Owner can change `minimumTokensBeforeSwap`.
- Owner can change dividend tracker's token balance for dividends.
- Owner can withdraw contract BNBs.

# Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope. The further transfers and operations with the funds raise are not related to this particular contract.

Liquidity locking details are NOT provided by the team.

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## *TechRate note:*

*Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.*

