



# Smart Contract Audit

FOR  
**SBF CEO**

DATED : 26 April 23'



# AUDIT SUMMARY

---

**Project name – SBF CEO**

**Date:** 26 April, 2023

**Scope of Audit-** Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

**Audit Status:** **Passed**

## Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	2	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0

---

# USED TOOLS

---

## Tools:

### 1- Manual Review:

A line by line code review has been performed by audit ace team.

**2- BSC Test Network:** All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

### 3- Slither :

The code has undergone static analysis using Slither.

### Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

<https://testnet.bscscan.com/token/0xb65e03c8ad622a5aeb6819c014065f9235b24ac0>

---



# Token Information

---

**Token Name :** SBF CEO

**Token Symbol:** SBFCEO

**Decimals:** 18

**Token Supply:** 100,000,000,000

**Token Address:**

0x924a65ae058c197ad2f3ad5c38ea50a78ae36b25

**Checksum:**

4d71e52bbcc17b365e19a9661658c05f4397eb29

**Owner:**

0x6a88aAD5547035BDE42020B18CDF4beD566a2e56

**(at time of writing the audit)**

**Deployer:**

0x4265d5b2d553b6C8F0C77E6D7A639c50Ff28796  
5

---



# TOKEN OVERVIEW

---

## **Fees:**

Buy Fees: up to 10%

Sell Fees: up to 10%

Transfer Fees: 0

---

**Fees Privilege:** None

---

**Ownership:** Owned

---

**Minting:** No mint function

---

**Max Tx Amount/ Max Wallet Amount:** No

---

**Blacklist:** No

---

**Other Privileges:** modifying swap threshold - toggling internal swap - excluding wallets from fee - including wallets in fee - modifying fees - changing buyback threshold

---

---



# AUDIT METHODOLOGY

---

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
  - Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
  - Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
  - Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
  - Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
  - Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.
-

# VULNERABILITY CHECKLIST

---

- |  |   |
|--|---|
|  Return values of low-level calls  |  Gasless Send                  |
|  Private modifier                  |  Using block.timestamp         |
|  Multiple Sends                    |  Re-entrancy                   |
|  Using Suicide                    |  Tautology or contradiction   |
|  Gas Limitand Loops              |  Timestamp Dependence        |
|  Address hardcoded               |  Revert/require functions    |
|  Exception Disorder              |  Use of tx.origin            |
|  Using inline assembly           |  Integer overflow/underflow  |
|  Divide before multiply          |  Dangerous strict equalities |
|  Missing Zero Address Validation |  Using SHA3                  |
|  Compiler version not fixed      |  Using throw                 |
-



# CLASSIFICATION OF RISK

## Severity

## Description

◆ Critical	These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
◆ High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
◆ Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
◆ Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
◆ Gas Optimization /Suggestion	A vulnerability that has an informational character but is not affecting any of the code.

## Findings

### Severity

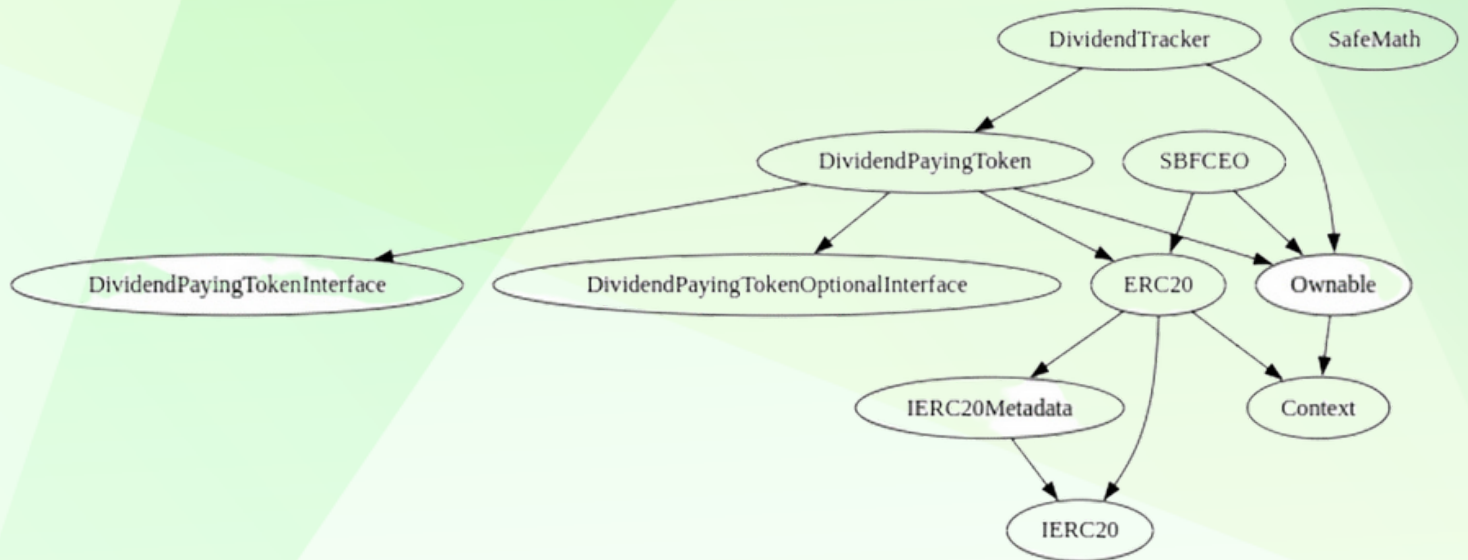
### Found

◆ Critical	0
◆ High-Risk	2
◆ Medium-Risk	0
◆ Low-Risk	0
◆ Gas Optimization / Suggestions	0



# INHERITANCE TREE

---



# POINTS TO NOTE














---

- Owner is able to change buy/sell each one up to 10%
  - Owner is not able to set transfer taxes (0% forever)
  - Owner is not able to set max buy/sell/transfer/hold amount
  - Owner is not able to blacklist an arbitrary wallet
  - Owner is not able to disable trades
  - Owner has to enable trades manually for holders
  - Owner is not able to mint new tokens
  - Token has BNB rewards with auto-distribution
  - Fees are used for rewards (BNB), buyback and marketing
-

# CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
└─	<b>**Function Name**</b>	<b>**Visibility**</b>	<b>**Mutability**</b>	<b>**Modifiers**</b>	
<b>**Context**</b>   Implementation					
└─	_msgSender	Internal	🔒		
└─	_msgData	Internal	🔒		
<b>**Ownable**</b>   Implementation   Context					
└─	<Constructor>	Public	!	🛑	NO!
└─	owner	Public	!		NO!
└─	renounceOwnership	Public	!	🛑	onlyOwner
└─	transferOwnership	Public	!	🛑	onlyOwner
└─	_transferOwnership	Internal	🔒	🛑	
<b>**SafeMath**</b>   Library					
└─	add	Internal	🔒		
└─	sub	Internal	🔒		
└─	sub	Internal	🔒		
└─	mul	Internal	🔒		
└─	div	Internal	🔒		
└─	div	Internal	🔒		
└─	mod	Internal	🔒		
└─	mod	Internal	🔒		
<b>**SafeMathInt**</b>   Library					
└─	mul	Internal	🔒		
└─	div	Internal	🔒		
└─	sub	Internal	🔒		
└─	add	Internal	🔒		
└─	abs	Internal	🔒		
└─	toUint256Safe	Internal	🔒		
<b>**SafeMathUint**</b>   Library					
└─	toInt256Safe	Internal	🔒		
<b>**IterableMapping**</b>   Library					
└─	get	Internal	🔒		
└─	getIndexOfKey	Internal	🔒		
└─	getKeyAtIndex	Internal	🔒		
└─	size	Internal	🔒		
└─	set	Internal	🔒	🛑	
└─	remove	Internal	🔒	🛑	

# CONTRACT ASSESMENT

```
||||| |
| **IUniswapV2Factory** | Interface | |||
|  | feeTo | External ! | |NO! |
|  | feeToSetter | External ! | |NO! |
|  | getPair | External ! | |NO! |
|  | allPairs | External ! | |NO! |
|  | allPairsLength | External ! | |NO! |
|  | createPair | External ! |  |NO! |
|  | setFeeTo | External ! |  |NO! |
|  | setFeeToSetter | External ! |  |NO! |
|||||
| **IUniswapV2Pair** | Interface | |||
|  | name | External ! | |NO! |
|  | symbol | External ! | |NO! |
|  | decimals | External ! | |NO! |
|  | totalSupply | External ! | |NO! |
|  | balanceOf | External ! | |NO! |
|  | allowance | External ! | |NO! |
|  | approve | External ! |  |NO! |
|  | transfer | External ! |  |NO! |
|  | transferFrom | External ! |  |NO! |
|  | DOMAIN_SEPARATOR | External ! | |NO! |
|  | PERMIT_TYPEHASH | External ! | |NO! |
|  | nonces | External ! | |NO! |
|  | permit | External ! |  |NO! |
|  | MINIMUM_LIQUIDITY | External ! | |NO! |
|  | factory | External ! | |NO! |
|  | token0 | External ! | |NO! |
|  | token1 | External ! | |NO! |
|  | getReserves | External ! | |NO! |
|  | price0CumulativeLast | External ! | |NO! |
|  | price1CumulativeLast | External ! | |NO! |
|  | kLast | External ! | |NO! |
|  | mint | External ! |  |NO! |
|  | burn | External ! |  |NO! |
|  | swap | External ! |  |NO! |
|  | skim | External ! |  |NO! |
|  | sync | External ! |  |NO! |
|  | initialize | External ! |  |NO! |
|||||
| **IUniswapV2Router01** | Interface | |||
```

# CONTRACT ASSESMENT

```

|  | factory | External ! | | NO! |
|  | WETH | External ! | | NO! |
|  | addLiquidity | External ! |  | NO! |
|  | addLiquidityETH | External ! |  | NO! |
|  | removeLiquidity | External ! |  | NO! |
|  | removeLiquidityETH | External ! |  | NO! |
|  | removeLiquidityWithPermit | External ! |  | NO! |
|  | removeLiquidityETHWithPermit | External ! |  | NO! |
|  | swapExactTokensForTokens | External ! |  | NO! |
|  | swapTokensForExactTokens | External ! |  | NO! |
|  | swapExactETHForTokens | External ! |  | NO! |
|  | swapTokensForExactETH | External ! |  | NO! |
|  | swapExactTokensForETH | External ! |  | NO! |
|  | swapETHForExactTokens | External ! |  | NO! |
|  | quote | External ! | | NO! |
|  | getAmountOut | External ! | | NO! |
|  | getAmountIn | External ! | | NO! |
|  | getAmountsOut | External ! | | NO! |
|  | getAmountsIn | External ! | | NO! |
|  |  |
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |  |
|  | removeLiquidityETHSupportingFeeOnTransferTokens | External ! |  | NO! |
|  | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! |  | NO! |
|  | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! |  | NO! |
|  | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! |  | NO! |
|  | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! |  | NO! |
|  |  |
| **IERC20** | Interface |  |
|  | totalSupply | External ! | | NO! |
|  | balanceOf | External ! | | NO! |
|  | allowance | External ! | | NO! |
|  | transfer | External ! |  | NO! |
|  | approve | External ! |  | NO! |
|  | transferFrom | External ! |  | NO! |
|  |  |
| **Address** | Library |  |
|  | isContract | Internal  |  |
|  | sendValue | Internal   |  |
|  | functionCall | Internal   |  |
|  | functionCall | Internal   |  |
|  | functionCallWithValue | Internal   |  |

```

# CONTRACT ASSESMENT

```

|  | functionCallWithValue | Internal |  |  | |
|  | _functionCallWithValue | Private |  |  | |
|||||
| **IERC20Metadata** | Interface | IERC20 | |||
|  | name | External |  | | NO! |
|  | symbol | External |  | | NO! |
|  | decimals | External |  | | NO! |
|||||
| **IPinkAntiBot** | Interface | |||
|  | setTokenOwner | External |  |  | NO! |
|  | onPreTransferCheck | External |  |  | NO! |
|||||
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | |||
|  | <Constructor> | Public |  |  | NO! |
|  | name | Public |  | | NO! |
|  | symbol | Public |  | | NO! |
|  | decimals | Public |  | | NO! |
|  | totalSupply | Public |  | | NO! |
|  | balanceOf | Public |  | | NO! |
|  | transfer | Public |  |  | NO! |
|  | allowance | Public |  | | NO! |
|  | approve | Public |  |  | NO! |
|  | transferFrom | Public |  |  | NO! |
|  | increaseAllowance | Public |  |  | NO! |
|  | decreaseAllowance | Public |  |  | NO! |
|  | _transfer | Internal |  |  | |
|  | _mint | Internal |  |  | |
|  | _burn | Internal |  |  | |
|  | _approve | Internal |  |  | |
|  | _beforeTokenTransfer | Internal |  |  | |
|||||
| **DividendPayingTokenInterface** | Interface | |||
|  | dividendOf | External |  | | NO! |
|  | withdrawDividend | External |  |  | NO! |
|||||
| **DividendPayingTokenOptionalInterface** | Interface | |||
|  | withdrawableDividendOf | External |  | | NO! |
|  | withdrawnDividendOf | External |  | | NO! |
|  | accumulativeDividendOf | External |  | | NO! |
|||||
| **DividendPayingToken** | Implementation | ERC20, Ownable, DividendPayingTokenInterface,
DividendPayingTokenOptionalInterface | |||

```

# CONTRACT ASSESMENT

```



| | | <Constructor> | Public ! | 🔴 | ERC20 |
| | | distributeDividends | Public ! | 🔴 | onlyOwner |
| | | withdrawDividend | Public ! | 🔴 | NO! |
| | | _withdrawDividendOfUser | Internal 🔒 | 🔴 | |
| | | dividendOf | Public ! | | NO! |
| | | withdrawableDividendOf | Public ! | | NO! |
| | | withdrawnDividendOf | Public ! | | NO! |
| | | accumulativeDividendOf | Public ! | | NO! |
| | | _transfer | Internal 🔒 | 🔴 | |
| | | _mint | Internal 🔒 | 🔴 | |
| | | _burn | Internal 🔒 | 🔴 | |
| | | _setBalance | Internal 🔒 | 🔴 | |
| | | |
| | | **DividendTracker** | Implementation | Ownable, DividendPayingToken | |
| | | <Constructor> | Public ! | 🔴 | DividendPayingToken |
| | | <Receive Ether> | External ! | 📡 | NO! |
| | | _transfer | Internal 🔒 | | |
| | | withdrawDividend | Public ! | | NO! |
| | | updateMinimumTokenBalanceForDividends | External ! | 🔴 | onlyOwner |
| | | excludeFromDividends | External ! | 🔴 | onlyOwner |
| | | updateClaimWait | External ! | 🔴 | onlyOwner |
| | | setLastProcessedIndex | External ! | 🔴 | onlyOwner |
| | | getLastProcessedIndex | External ! | | NO! |
| | | getNumberOfTokenHolders | External ! | | NO! |
| | | getAccount | Public ! | | NO! |
| | | getAccountAtIndex | Public ! | | NO! |
| | | canAutoClaim | Private 🔒 | | |
| | | setBalance | External ! | 🔴 | onlyOwner |
| | | process | Public ! | 🔴 | NO! |
| | | processAccount | Public ! | 🔴 | onlyOwner |
| | | |
| | | **SBFCEO** | Implementation | ERC20, Ownable | |
| | | <Constructor> | Public ! | 🔴 | ERC20 |
| | | <Receive Ether> | External ! | 📡 | NO! |
| | | claimStuckTokens | External ! | 🔴 | onlyOwner |
| | | excludeFromFees | External ! | 🔴 | onlyOwner |
| | | isExcludedFromFees | Public ! | | NO! |
| | | updateBuyFees | External ! | 🔴 | onlyOwner |
| | | updateSellFees | External ! | 🔴 | onlyOwner |
| | | changeMarketingWallet | External ! | 🔴 | onlyOwner |
| | | enableTrading | External ! | 🔴 | onlyOwner |

```

# CONTRACT ASSESMENT

<sup>L</sup>	\_transfer	Internal 			
<sup>L</sup>	swapAndSendDividends	Private 			
<sup>L</sup>	setSwapEnabled	External 		onlyOwner	
<sup>L</sup>	setBNBValueForBuyBurn	Public 		onlyOwner	
<sup>L</sup>	buyBack	Internal 			
<sup>L</sup>	setSwapTokensAtAmount	External 		onlyOwner	
<sup>L</sup>	updateDividendTracker	Public 		onlyOwner	
<sup>L</sup>	updateGasForProcessing	Public 		onlyOwner	
<sup>L</sup>	updateMinimumBalanceForDividends	External 		onlyOwner	
<sup>L</sup>	updateClaimWait	External 		onlyOwner	
<sup>L</sup>	getClaimWait	External 			NO
<sup>L</sup>	getTotalDividendsDistributed	External 			NO
<sup>L</sup>	withdrawableDividendOf	Public 			NO
<sup>L</sup>	dividendTokenBalanceOf	Public 			NO
<sup>L</sup>	totalRewardsEarned	Public 			NO
<sup>L</sup>	excludeFromDividends	External 		onlyOwner	
<sup>L</sup>	isExcludedFromDividends	Public 			NO
<sup>L</sup>	getAccountDividendsInfo	External 			NO
<sup>L</sup>	getAccountDividendsInfoAtIndex	External 			NO
<sup>L</sup>	processDividendTracker	External 			NO
<sup>L</sup>	claim	External 			NO
<sup>L</sup>	claimAddress	External 		onlyOwner	
<sup>L</sup>	getLastProcessedIndex	External 			NO
<sup>L</sup>	setLastProcessedIndex	External 		onlyOwner	
<sup>L</sup>	getNumberOfDividendTokenHolders	External 			NO

## Legend

Symbol	Meaning
:-----: -----	
	Function can modify state
	Function is payable





# STATIC ANALYSIS

```
Function IUniswapV2Pair.DOMAIN_SEPARATOR() (contracts/Token.sol#303) is not in mixedCase
Function IUniswapV2Pair.PERMIT_TYPEHASH() (contracts/Token.sol#305) is not in mixedCase
Function IUniswapV2Pair.MINIMUM_LIQUIDITY() (contracts/Token.sol#336) is not in mixedCase
Function IUniswapV2Router01.WETH() (contracts/Token.sol#378) is not in mixedCase
Parameter DividendPayingToken.dividendOf(address).owner (contracts/Token.sol#969) is not in mixedCase
Parameter DividendPayingToken.withdrawableDividendOf(address).owner (contracts/Token.sol#974) is not in mixedCase
Parameter DividendPayingToken.withdrawDividendOf(address).owner (contracts/Token.sol#980) is not in mixedCase
Parameter DividendPayingToken.accumulativeDividendOf(address).owner (contracts/Token.sol#986) is not in mixedCase
Constant DividendPayingToken.magnitude (contracts/Token.sol#911) is not in UPPER_CASE_WITH_UNDERSCORES
Parameter DividendTracker.updateMinimumTokenBalanceForDividends(uint256).newMinimumBalance (contracts/Token.sol#1087) is not in mixedCase
Parameter DividendTracker.getAccount(address).account (contracts/Token.sol#1132) is not in mixedCase
Parameter SpongebobInu.updateBuyFees(uint256,uint256,uint256).autoBuybackBurnFeeOnBuy (contracts/Token.sol#1467) is not in mixedCase
Parameter SpongebobInu.updateBuyFees(uint256,uint256,uint256).marketingFeeOnBuy (contracts/Token.sol#1468) is not in mixedCase
Parameter SpongebobInu.updateBuyFees(uint256,uint256,uint256).rewardFeeOnBuy (contracts/Token.sol#1469) is not in mixedCase
Parameter SpongebobInu.updateSellFees(uint256,uint256,uint256).autoBuybackBurnFeeOnSell (contracts/Token.sol#1491) is not in mixedCase
Parameter SpongebobInu.updateSellFees(uint256,uint256,uint256).marketingFeeOnSell (contracts/Token.sol#1492) is not in mixedCase
Parameter SpongebobInu.updateSellFees(uint256,uint256,uint256).rewardFeeOnSell (contracts/Token.sol#1493) is not in mixedCase
Parameter SpongebobInu.changeMarketingWallet(address).marketingWallet (contracts/Token.sol#1517) is not in mixedCase
Parameter SpongebobInu.setSwapEnabled(bool).enabled (contracts/Token.sol#1683) is not in mixedCase
Variable SpongebobInu.DEAD (contracts/Token.sol#1332) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

Variable IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (contracts/Token.sol#383) is too similar to IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/Token.sol#384)
Variable DividendPayingToken._withdrawDividendOfUser(address).withdrawableDividend (contracts/Token.sol#948) is too similar to DividendTracker.getAccount(address).withdrawableDividends (contracts/Token.sol#1140)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

SpongebobInu.setSwapTokensAtAmount(uint256) (contracts/Token.sol#1706-1713) uses literals with too many digits:
- require(bool,string)(newAmount > totalSupply() / 100000,SwapTokensAtAmount must be greater than 0.001% of total supply) (contracts/Token.sol#1707-1710)
SpongebobInu.updateGasForProcessing(uint256) (contracts/Token.sol#1748-1759) uses literals with too many digits:
- require(bool,string)(newValue >= 200000 && newValue <= 500000,gasForProcessing must be between 200,000 and 500,000) (contracts/Token.sol#1749-1752)
SpongebobInu.slitherConstructorVariables() (contracts/Token.sol#1306-1880) uses literals with too many digits:
- gasForProcessing = 300000 (contracts/Token.sol#1345)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits

SafeMathInt.MAX_INT256 (contracts/Token.sol#125) is never used in SafeMathInt (contracts/Token.sol#123-165)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable

ERC20.antiBotEnabled (contracts/Token.sol#722) should be constant
ERC20.pinkAntiBot (contracts/Token.sol#721) should be constant
SpongebobInu.DEAD (contracts/Token.sol#1332) should be constant
SpongebobInu.rewardToken (contracts/Token.sol#1344) should be constant
SpongebobInu.swapWithLimit (contracts/Token.sol#1337) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

ERC20.antiBotEnabled (contracts/Token.sol#722) should be immutable
ERC20.pinkAntiBot (contracts/Token.sol#721) should be immutable
SpongebobInu.uniswapV2Pair (contracts/Token.sol#1330) should be immutable
SpongebobInu.uniswapV2Router (contracts/Token.sol#1329) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

**Result => A static analysis of contract's source code has been performed using slither,**

**No major issues were found in the output**



# FUNCTIONAL TESTING

---

## Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

All the functionalities have been tested, no issues were found

### 1- Adding liquidity (passed):

<https://testnet.bscscan.com/tx/0x8f5472a6b782e67699df95613f0bbc048a6cb1b5b6ffd6e383b9a3c6f5a3627d>

### 2- Buying when excluded (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x82c5d482456553c7385dfbf7b814a7b918e6e593cb67789bcf088347d59ab530>

### 3- Selling when excluded (0% tax) (passed):

<https://testnet.bscscan.com/tx/0xd46d18cc31855c14664fddfc2448ae53a304ea47797e19748838da59708738c>

### 4- Transferring when excluded from fees (0% tax) (passed):

<https://testnet.bscscan.com/tx/0xfbe5f7309cc59e8fb605aac4bd70af8db89d09436ba0b12287d68936ffcfe1a8>

### 5- Buying when not excluded from fees (up to 10% tax) (passed):

<https://testnet.bscscan.com/tx/0xfe379fdf0878a4ee64affe79b51b28ab71c635eca992f07b9c86cf3fe5547893>

### 6- Selling when not excluded from fees (up to 10% tax) (passed):

<https://testnet.bscscan.com/tx/0x3ccdfd89f470c8c43e2a71ea3b24fbbbeb31b612e2898635c24d6d126c27591f0>

---

# FUNCTIONAL TESTING

### 7- Transferring when not excluded from fees (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x0206c6d1e07ee415ebd05afb68957872349a2234dd5733382567a9a16778d73a>

## 8- Internal swap (passed):

marketing wallet received BNB

<https://testnet.bscscan.com/address/0xf21d472cf93acc209087a7d260404246742dcda0#internaltx>

### 9- Buyback (passed):

Buyback happened after reaching the threshold, and tokens were sent to dead wallet

`https://testnet.bscscan.com/token/0xb65e03c8ad622a5aeb6819c014065f9235b24ac0?a=0x00000000000000000000000000000000dead`

# MANUAL TESTING

---

## Logical – Upgradeable dividend tracker

**Severity:** High

**Function:** enableTrading

**Lines:** 1531

**Status:** Not Resolved

### Overview:

Owner of the contract is able to change dividend tracker to another address. If new dividend tracker has issues (spending lots of gas, not compatible with current token implementation etc), buy/sell/transfers would be disabled.

```
function updateDividendTracker(address newAddress) public onlyOwner {
    require(
        newAddress != address(dividendTracker),
        "The dividend tracker already has that address"
    );

    DividendTracker newDividendTracker = DividendTracker(
        payable(newAddress)
    );

    require(
        newDividendTracker.owner() == address(this),
        "The new dividend tracker must be owned by the token contract"
    );

    try
        newDividendTracker.excludeFromDividends(address(newDividendTracker))
    {} catch {}
    try newDividendTracker.excludeFromDividends(address(this)) {} catch {}
    try newDividendTracker.excludeFromDividends(DEAD) {} catch {}
    try
        newDividendTracker.excludeFromDividends(address(uniswapV2Router))
    {} catch {}
    try
        newDividendTracker.excludeFromDividends(address(uniswapV2Pair))
    {} catch {}

    emit UpdateDividendTracker(newAddress, address(dividendTracker));

    dividendTracker = newDividendTracker;
}
```

### Recommendation:

There are several options to mitigate this issue

- renounce the ownership
  - Ensure that dividend tracker is not upgradeable
  - Add additional functions to current dividend tracker so be able to change reward token, router address etc. this means we don't need to create a new dividend tracker later in order to update current one.
-

# MANUAL TESTING

---

## Centralization - Owner Must Enable Trades

**Severity:** High / Informational

**Function:** enableTrading

**Lines:** 1531

**Status:** Not Resolved

### Overview:

The owner is required to enable trading for investors. If trading remains disabled, token holders will not have the ability to buy, sell, or transfer their tokens.

```
function enableTrading() external onlyOwner {  
    tradingEnabled = true;  
}
```

### Recommendation:

While the presence of this function is considered a feature rather than a flaw, it is crucial to highlight the centralization risk it inherently poses. To address this issue and ensure the enablement of trades, one possible solution would be to transfer the contract's ownership to a trusted third party, such as a Pinksale Safu developer. This would help mitigate the centralization risk associated with this function.



# DISCLAIMER

---

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment. Team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed. The Auditace team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Auditace receive a payment to manipulate those results or change the awarding badge that we will be adding in our website. Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token. The Auditace team disclaims any liability for the resulting losses.

---



# ABOUT AUDITACE

---

We specialize in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.



**<https://auditace.tech/>**



**[https://t.me/Audit\\_Ace](https://t.me/Audit_Ace)**



**[https://twitter.com/auditace\\_](https://twitter.com/auditace_)**



**<https://github.com/Audit-Ace>**

---