



# Smart Contract Audit

FOR

ReelFi

DATED : 30 JAN 23'



# AUDIT SUMMARY

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**Project name** – ReelFi

**Date:** 30 January , 2023

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

**Audit Status:** **Passed** (Contract is developed by Pinksale safu dev)

## Issues Found

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

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# USED TOOLS

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## Tools:

### 1- Manual Review:

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

### 2- BSC Test Network:

all tests were done on BSC Testnet network, each test has its transaction has attached to it. . You can check this tests in “**functionality tests**” section of the report.

### 3- Slither : Static Analysis

**Testnet Link:** all tests were done using this contract, tests are done on BSC Testnet

<https://testnet.bscscan.com/token/0x96aa3598231dc2eec650119f0ed17dc2b73ed075>

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# Token Information

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**Token Name :** ReelFi

**Token Symbol:** Reelfi

**Decimals:** 18

**Token Supply:** 10,000,000

**Token Address:** Not deployed

**Checksum:**

f42f4af79b37608dcf6f7c18e579f93c86437fb8a920  
f082a1d0fb2f3311184d

**Deployer:** not deployed

**Owner:** not deployed

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# TOKEN OVERVIEW

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## **Fees:**

Buy Fees: 0%

Sell Fees: 6%

Transfer Fees: 0%

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**Fees Privilege:** Owner

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**Ownership :** Owned

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**Minting:** No mint function

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**Max Tx Amount:** buys and sells, can not be lesser than 0.1% of total supply

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**Blacklist:** No

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**Other Privileges:** setting max buy & sell amounts

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# AUDIT METHODOLOGY

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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.
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# VULNERABILITY CHECKLIST

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- |  |   |
|--|---|
|  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                 |
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# 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

0

### ◆ Medium-Risk

0

### ◆ Low-Risk

0

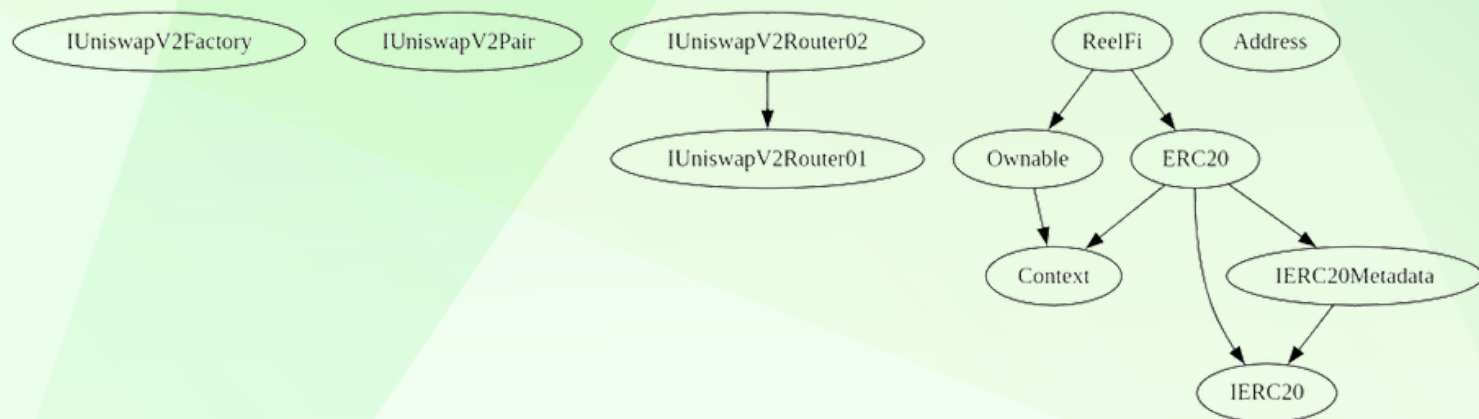
### ◆ Gas Optimization / Suggestions

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# INHERITANCE TREE

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# POINTS TO NOTE

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- **Owner is not able to change taxes (6% sell, 0% buy, 0% transfer)**
  - **Owner is not able to blacklist an arbitrary wallet**
  - **Owner is not able to set max buy/sell/transfer amounts**
  - **Owner is not able to disable trades**
  - **Owner is not able to mint new tokens**
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# CONTRACT ASSESMENT

Contract	Type	Bases			
└──┐	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
**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	!


# CONTRACT ASSESMENT


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| **\*\*IUniswapV2Router01\*\*** | Interface | |||


| | 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! |

| | transfer | External ! |  | NO! |

| | allowance | External ! | | NO! |

| | approve | External ! |  | NO! |

| | transferFrom | External ! |  | NO! |

|||||

| **\*\*IERC20Metadata\*\*** | Interface | IERC20 |||

| | name | External ! | | NO! |

| | symbol | External ! | | NO! |

| | decimals | External ! | | NO! |

|||||

# CONTRACT ASSESMENT

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| **Address** | Library | ||| |
|  | isContract | Internal | | |
|  | sendValue | Internal | | |
|  | functionCall | Internal | | |
|  | functionCall | Internal | | |
|  | functionCallWithValue | Internal | | |
|  | functionCallWithValue | Internal | | |
|  | functionStaticCall | Internal | | |
|  | functionStaticCall | Internal | | |
|  | functionDelegateCall | Internal | | |
|  | functionDelegateCall | Internal | | |
|  | verifyCallResultFromTarget | Internal | | |
|  | verifyCallResult | Internal | | |
|  | _revert | Private | | |
| | | |
| **Context** | Implementation | |||
|  | _msgSender | Internal | | |
|  | _msgData | Internal | | |
| | | |
| **Ownable** | Implementation | Context | |||
|  | <Constructor> | Public | | | NO |
|  | owner | Public | | | NO |
|  | renounceOwnership | Public | | | onlyOwner |
|  | transferOwnership | Public | | | onlyOwner |
| | | |
| **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 | | |

```

# CONTRACT ASSESMENT

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|  | _approve | Internal |  |  | | |
|  | _beforeTokenTransfer | Internal |  |  | |
|  | _afterTokenTransfer | Internal |  |  | |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | **ReelFi** | Implementation | ERC20, Ownable | | |
|  | <Constructor> | Public |  |  | ERC20 |
|  | <Receive Ether> | External |  |  | NO |  |
|  | claimStuckTokens | External |  |  | onlyOwner |
|  | excludeFromFees | External |  |  | onlyOwner |
|  | isExcludedFromFees | Public |  | | NO |  |
|  | changeMarketingWallet | External |  |  | onlyOwner |
|  | changeStakingWallet | External |  |  | onlyOwner |
|  | changeAppRewardWallet | External |  |  | onlyOwner |
|  | enableTrading | External |  |  | onlyOwner |
|  | _transfer | Internal |  |  | |
|  | setSwapEnabled | External |  |  | onlyOwner |
|  | setSwapTokensAtAmount | External |  |  | onlyOwner |
|  | swapAndSendWallets | Private |  |  | |
|  | setEnableMaxTransactionLimit | External |  |  | onlyOwner |
|  | setMaxTransactionAmounts | External |  |  | onlyOwner |
|  | excludeFromMaxTransactionLimit | External |  |  | onlyOwner |
|  | isExcludedFromMaxTransaction | Public |  | | NO |  |

```

| Symbol | Meaning |

| :-----: | ----- |

|  | Function can modify state |

|  | Function is payable |



# STATIC ANALYSIS

ReelFi.constructor().router (contracts/Ace\_Testing\_BSC.sol#830) is a local variable never initialized  
Reference: <https://github.com/cryptic/slither/wiki/Detector-Documentation#uninitialized-local-variables>

Reentrancy in ReelFi.transfer(address,address,uint256) (contracts/Ace\_Testing\_BSC.sol#982-1074):

External calls:

- swapAndSendWalleys(bnbTokens) (contracts/Ace\_Testing\_BSC.sol#1041)
- (success) = recipient.call(value: amount)() (contracts/Ace\_Testing\_BSC.sol#397)
- uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/Ace\_Testing\_BSC.sol#1100-1106)
- address(marketingWallet).sendValue(marketingAmount) (contracts/Ace\_Testing\_BSC.sol#1112)
- address(stakingWallet).sendValue(newBalance - marketingAmount) (contracts/Ace\_Testing\_BSC.sol#1113)

External calls sending eth:

- swapAndSendWalleys(bnbTokens) (contracts/Ace\_Testing\_BSC.sol#1041)
- (success) = recipient.call(value: amount)() (contracts/Ace\_Testing\_BSC.sol#397)

Event emitted after the call(s):

- Transfer(sender,recipient,amount) (contracts/Ace\_Testing\_BSC.sol#741)
- super.transfer(from,address(this),fees) (contracts/Ace\_Testing\_BSC.sol#1070)
- Transfer(sender,recipient,amount) (contracts/Ace\_Testing\_BSC.sol#741)
- super.transfer(from,to,amount) (contracts/Ace\_Testing\_BSC.sol#1073)
- Transfer(sender,recipient,amount) (contracts/Ace\_Testing\_BSC.sol#741)
- super.transfer(from,appRewardWallet,appTokens) (contracts/Ace\_Testing\_BSC.sol#1047)

Reference: <https://github.com/cryptic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3>

Address.revert(bytes,string) (contracts/Ace\_Testing\_BSC.sol#545-560) uses assembly

- INLINE ASM (contracts/Ace\_Testing\_BSC.sol#553-556)

Reference: <https://github.com/cryptic/slither/wiki/Detector-Documentation#assembly-usage>

Address.revert(bytes,string) (contracts/Ace\_Testing\_BSC.sol#545-560) is never used and should be removed

Address.functionCall(address,bytes) (contracts/Ace\_Testing\_BSC.sol#404-415) is never used and should be removed

Address.functionCall(address,bytes,string) (contracts/Ace\_Testing\_BSC.sol#417-423) is never used and should be removed

Address.functionCallWithValue(address,bytes,uint256) (contracts/Ace\_Testing\_BSC.sol#425-437) is never used and should be removed

Address.functionCallWithValue(address,bytes,uint256,string) (contracts/Ace\_Testing\_BSC.sol#439-459) is never used and should be removed

Address.functionDelegateCall(address,bytes) (contracts/Ace\_Testing\_BSC.sol#488-498) is never used and should be removed

Address.functionDelegateCall(address,bytes,string) (contracts/Ace\_Testing\_BSC.sol#500-513) is never used and should be removed

Address.functionStaticCall(address,bytes) (contracts/Ace\_Testing\_BSC.sol#461-471) is never used and should be removed

Address.functionStaticCall(address,bytes,string) (contracts/Ace\_Testing\_BSC.sol#473-486) is never used and should be removed

Address.isContract(address) (contracts/Ace\_Testing\_BSC.sol#387-389) is never used and should be removed

Address.verifyCallResult(bool,bytes,string) (contracts/Ace\_Testing\_BSC.sol#533-543) is never used and should be removed

Address.verifyCallResultFromTarget(address,bool,bytes,string) (contracts/Ace\_Testing\_BSC.sol#515-531) is never used and should be removed

Context.msgData() (contracts/Ace\_Testing\_BSC.sol#568-571) is never used and should be removed

ERC20.burn(address,uint256) (contracts/Ace\_Testing\_BSC.sol#758-773) is never used and should be removed

Reference: <https://github.com/cryptic/slither/wiki/Detector-Documentation#dead-code>

Pragma version0.8.17 (contracts/Ace\_Testing\_BSC.sol#19) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16

solc-0.8.17 is not recommended for deployment

Reference: <https://github.com/cryptic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity>

Low level call in Address.sendValue(address,uint256) (contracts/Ace\_Testing\_BSC.sol#391-402):

- (success) = recipient.call(value: amount)() (contracts/Ace\_Testing\_BSC.sol#397)

Low level call in Address.functionCallWithValue(address,bytes,uint256,string) (contracts/Ace\_Testing\_BSC.sol#439-459):

- (success,returndata) = target.call(value: value)(data) (contracts/Ace\_Testing\_BSC.sol#449-451)

Low level call in Address.functionStaticCall(address,bytes,string) (contracts/Ace\_Testing\_BSC.sol#473-486):

- (success,returndata) = target.staticcall(data) (contracts/Ace\_Testing\_BSC.sol#478)

Low level call in Address.functionDelegateCall(address,bytes,string) (contracts/Ace\_Testing\_BSC.sol#500-513):

- (success,returndata) = target.delegatecall(data) (contracts/Ace\_Testing\_BSC.sol#505)

Reference: <https://github.com/cryptic/slither/wiki/Detector-Documentation#low-level-calls>

Function IUniswapV2Pair.DOMAIN\_SEPARATOR() (contracts/Ace\_Testing\_BSC.sol#81) is not in mixedCase

Function IUniswapV2Pair.PERMIT\_TYPEHASH() (contracts/Ace\_Testing\_BSC.sol#83) is not in mixedCase

Function IUniswapV2Pair.MINIMUM\_LIQUIDITY() (contracts/Ace\_Testing\_BSC.sol#114) is not in mixedCase

Function IUniswapV2Router01.WETH() (contracts/Ace\_Testing\_BSC.sol#154) is not in mixedCase

Event ReelFiappRewardWalletChanged(address) (contracts/Ace\_Testing\_BSC.sol#826) is not in CapWords

Parameter ReelFi.changeMarketingWallet(address).marketingWallet (contracts/Ace\_Testing\_BSC.sol#921) is not in mixedCase

Parameter ReelFi.changeStakingWallet(address).stakingWallet (contracts/Ace\_Testing\_BSC.sol#936) is not in mixedCase

Parameter ReelFi.changeAppRewardWallet(address).appRewardWallet (contracts/Ace\_Testing\_BSC.sol#951) is not in mixedCase

Parameter ReelFi.setSwapEnabled(bool).enabled (contracts/Ace\_Testing\_BSC.sol#1078) is not in mixedCase

Parameter ReelFi.setMaxTransactionAmounts(uint256,uint256).maxTransactionAmountBuy (contracts/Ace\_Testing\_BSC.sol#1144) is not in mixedCase

Parameter ReelFi.setMaxTransactionAmounts(uint256,uint256).maxTransactionAmountSell (contracts/Ace\_Testing\_BSC.sol#1145) is not in mixedCase

Reference: <https://github.com/cryptic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions>

Redundant expression "this (contracts/Ace\_Testing\_BSC.sol#569)" inContext (contracts/Ace\_Testing\_BSC.sol#563-572)

Reference: <https://github.com/cryptic/slither/wiki/Detector-Documentation#redundant-statements>

Variable IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (contracts/Ace\_Testing\_BSC.sol#159) is too similar to IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/Ace\_Testing\_BSC.sol#160)

Reference: <https://github.com/cryptic/slither/wiki/Detector-Documentation#variable-names-too-similar>

ReelFi.appRewardFeeOnSell (contracts/Ace\_Testing\_BSC.sol#812) should be immutable

ReelFi.creator (contracts/Ace\_Testing\_BSC.sol#808) should be immutable

ReelFi.marketingFeeOnSell (contracts/Ace\_Testing\_BSC.sol#810) should be immutable

ReelFi.stakingFeeOnSell (contracts/Ace\_Testing\_BSC.sol#811) should be immutable

ReelFi.uniswapV2Pair (contracts/Ace\_Testing\_BSC.sol#804) should be immutable

ReelFi.uniswapV2Router (contracts/Ace\_Testing\_BSC.sol#803) should be immutable

Reference: <https://github.com/cryptic/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**





# FUNCTIONAL TESTING

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**Router (PCS V2):**

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

**0- Deploying (Passed):**

<https://testnet.bscscan.com/tx/0x79945c3205a4dcfa03c5194dac158039872cfe910362bf9a9976629422b5437b>

**1- Adding Liquidity (Passed):**

**liquidity added on Pancakeswap V2:**

<https://testnet.bscscan.com/tx/0x0f707d84bf8d5c9d9810bc6748e07435064d74657ef974a8520d3f86fba2d376>

**no issue were found on adding liquidity.**

**2- Enabling trade for public (Passed):**

<https://testnet.bscscan.com/tx/0x940ada1067ee05dff5f15898f798a8ae272682e9663e761a0f9ea6a8dc350a96>

**3- Excluding deployer's wallet from taxes (to test taxes)  
(Passed):**

<https://testnet.bscscan.com/tx/0x822169c4349e79124253a3439d7f3e24f7960eacea0bad17a3ae9a360881efa1>

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# FUNCTIONAL TESTING

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## 4- Buying from a non-whitelisted wallet (Passed):

<https://testnet.bscscan.com/tx/0xcd8a3cce90986178d972f925c3f0bf9a99defdc6813153b723c2ca4a5f2ecaae>

0% static tax on buys

## 5- Selling from a non-whitelisted wallet (Passed):

<https://testnet.bscscan.com/tx/0xe79c5a9ee9a1aa4af1e5beb1c2116b55e54ac2f7a0949f065e7358f3c748e965>

6% static tax on sells

## 6- Internal Swap (Passed):

taxes were swapped to BNB and sent to staking and marketing wallets:

### staking:

<https://testnet.bscscan.com/address/0x9fdd17365a2328f29ce04a3d25ebff7035c240a7#internaltx>

### marketing:

<https://testnet.bscscan.com/address/0x70d7fc28a52f7112d9c50e86bdcf6ef4ca167542#internaltx>

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# FUNCTIONAL TESTING

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**7- Transferring tokens from a non-whitelisted wallet to a non-whitelisted wallet (Passed):**

0% static tax on transfers

<https://testnet.bscscan.com/tx/0xac725c2102ab6a832cf92e10683ab06256b2be79f2092d30b044678df1334ebf>

**8- Buying from a limit-excluded wallet (Passed):**

<https://testnet.bscscan.com/tx/0x468cd8e8f5d618f92bf872488dc8ed52e3608a11a86eda363a0797498c574345>

**9 Buying same amount from a limited wallet (failed as expected) :**

<https://testnet.bscscan.com/tx/0x0a0a26a5221193166c46997375a2442f5f253294ffe9c4ebf40a13fde9bde1d7>

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# MANUAL TESTING

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**NO ISSUES WERE FOUND**





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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.



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