auditace.tech

AuditAce

FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

Dollar Shiba Inu

DATED : 04 APR 23'

AUDIT SUMMARY

Project name – Ted Inu

Date: 02 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	0	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 Testnet network:
all tests were done on Bsc Testnet network, each test has its transaction has attached to it.

3- Slither : Static Analysis

Testnet Link: Contract has been tested on binance smart chain testnet which can be found in below link:

https://testnet.bscscan.com/address/0xF030fcDDD000eb539DCB7bD42709a566AdA37432#code

Token Information

Token Name : Dollar Shiba Inu

Token Symbol: DShib

Decimals: 9

Token Supply: 1,000,000,000,000,000,000,000

Token Address:
0x3aB414b56590A5376f5Bd18a57f5680736bE4D98

Checksum:
86f31dd4eaabf2f175342ef2820339554c9a3bdb

Owner:
0x0000000000000000000000000000000000000000
(renounced)

TOKEN OVERVIEW

Fees:

Buy Fees: 8%

Sell Fees: 8%

Transfer Fees: 8%

Fees Privilige: none

Ownership : renounced

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: none

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

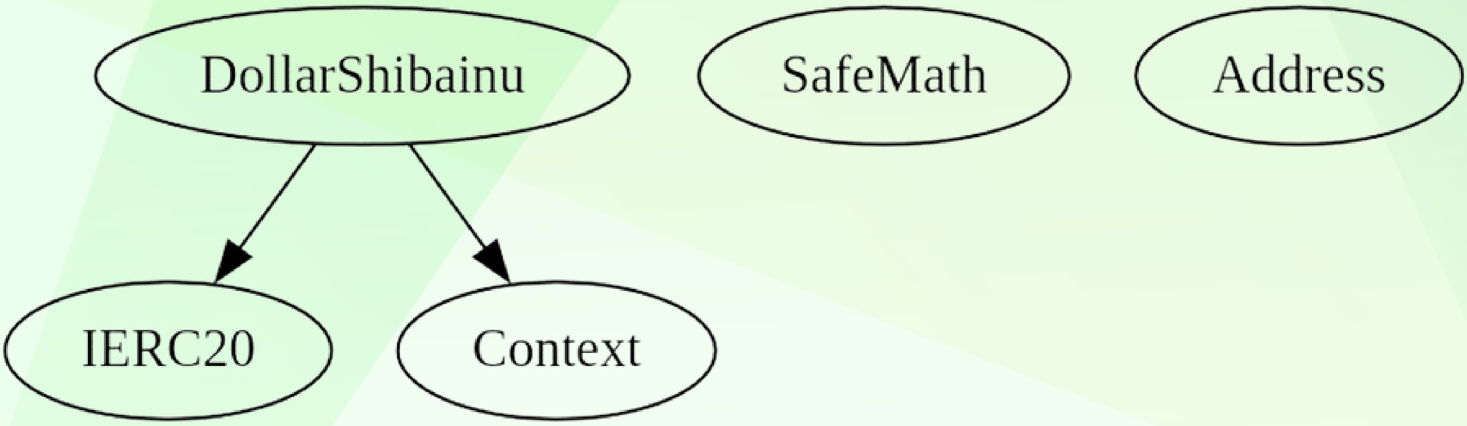
CLASSIFICATION OF RISK

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	0
◆ Medium-Risk	0
◆ Low-Risk	0
◆ Gas Optimization / Suggestions	0

INHERITANCE TREE



POINTS TO NOTE

- **Ownership is renounced, meaning owner has not control over the contract functions**
- Owner is not able to modify buy/sell/transfer fees (8% for each)
- 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 is not able to mint new tokens

CONTRACT ASSESMENT

```
| Contract | Type | Bases | | |
|:----------:|:-------------------:|:----------------:|:----------------:|:---------------:|
| └ | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
||||||
| **IERC20** | Interface | |||
| └ | totalSupply | External ❗ | |NO❗ |
| └ | balanceOf | External ❗ | |NO❗ |
| └ | transfer | External ❗ | 🛑 |NO❗ |
| └ | allowance | External ❗ | |NO❗ |
| └ | approve | External ❗ | 🛑 |NO❗ |
| └ | transferFrom | External ❗ | 🛑 |NO❗ |
||||||
| **SafeMath** | Library | |||
| └ | add | Internal 🔒 | | |
| └ | sub | Internal 🔒 | | |
| └ | mul | Internal 🔒 | | |
| └ | div | Internal 🔒 | | |
| └ | sub | Internal 🔒 | | |
| └ | div | Internal 🔒 | | |
||||||
| **Context** | Implementation | |||
| └ | _msgSender | Internal 🔒 | | |
| └ | _msgData | Internal 🔒 | | |
||||||
| **Address** | Library | |||
| └ | isContract | Internal 🔒 | | |
| └ | sendValue | Internal 🔒 | 🛑 | |
| └ | functionCall | Internal 🔒 | 🛑 | |
| └ | functionCall | Internal 🔒 | 🛑 | |
| └ | functionCallWithValue | Internal 🔒 | 🛑 | |
| └ | functionCallWithValue | Internal 🔒 | 🛑 | |
| └ | functionStaticCall | Internal 🔒 | | |
| └ | functionStaticCall | Internal 🔒 | | |
| └ | functionDelegateCall | Internal 🔒 | 🛑 | |
| └ | functionDelegateCall | Internal 🔒 | 🛑 | |
| └ | _verifyCallResult | Private 🔐 | | |
||||||
| **IUniswapV2Factory** | Interface | |||
| └ | feeTo | External ❗ | |NO❗ |
| └ | feeToSetter | External ❗ | |NO❗ |
| └ | getPair | External ❗ | |NO❗ |
| └ | allPairs | External ❗ | |NO❗ |
```

CONTRACT ASSESMENT

```
| └ | 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❗ |
| └ | burn | External ❗ | 🛑  |NO❗ |
| └ | swap | External ❗ | 🛑  |NO❗ |
| └ | skim | External ❗ | 🛑  |NO❗ |
| └ | sync | External ❗ | 🛑  |NO❗ |
| └ | initialize | External ❗ | 🛑  |NO❗ |
||||||
| **IUniswapV2Router01** | Interface |  |||
| └ | factory | External ❗ |   |NO❗ |
| └ | WETH | External ❗ |   |NO❗ |
| └ | addLiquidity | External ❗ | 🛑  |NO❗ |
| └ | addLiquidityETH | External ❗ | 💵  |NO❗ |
| └ | removeLiquidity | External ❗ | 🛑  |NO❗ |
| └ | removeLiquidityETH | External ❗ | 🛑  |NO❗ |
| └ | removeLiquidityWithPermit | External ❗ | 🛑  |NO❗ |
```

CONTRACT ASSESMENT

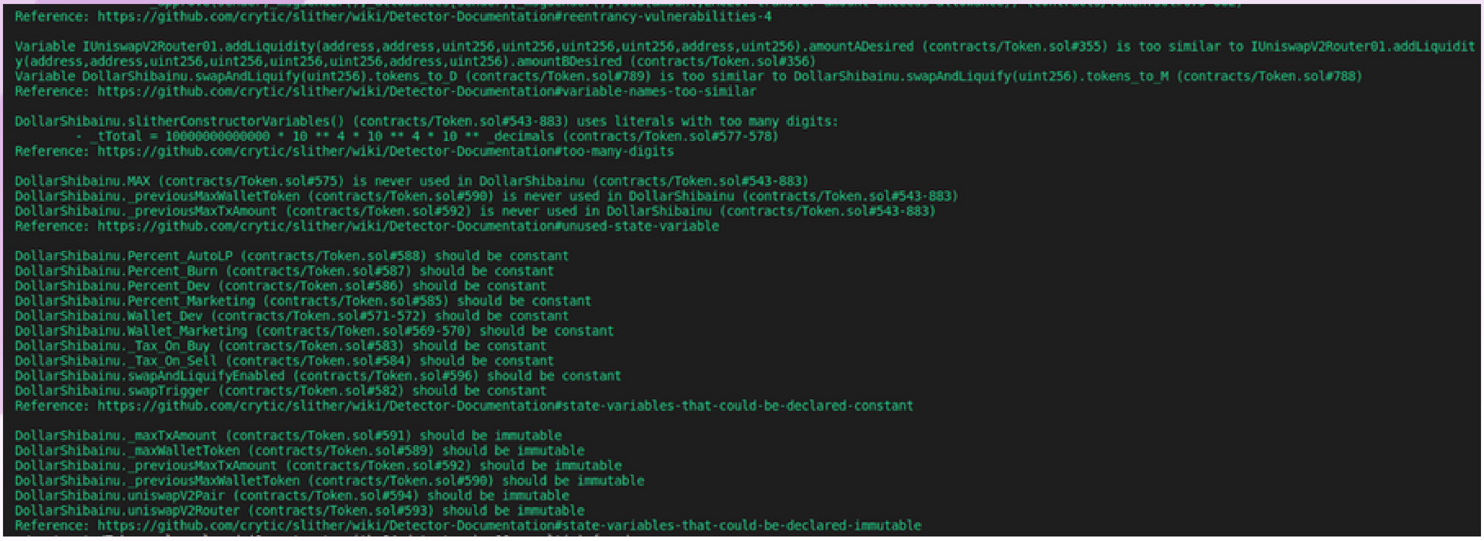
```
| └ | removeLiquidityETHWithPermit | External ❗ | 🛑  |NO❗ |
| └ | swapExactTokensForTokens | External ❗ | 🛑  |NO❗ |
| └ | swapTokensForExactTokens | External ❗ | 🛑  |NO❗ |
| └ | swapExactETHForTokens | External ❗ |  💵 |NO❗ |
| └ | swapTokensForExactETH | External ❗ | 🛑  |NO❗ |
| └ | swapExactTokensForETH | 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❗ |
||||||
| **DollarShibainu** | Implementation | Context, IERC20 |||
| └ | owner | Public ❗ |   |NO❗ |
| └ | renounceOwnership | Public ❗ | 🛑  |NO❗ |
| └ | <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❗ |
| └ | <Receive Ether> | External ❗ |  💵 |NO❗ |
| └ | _getCurrentSupply | Private 🔐 |   | |
| └ | _approve | Private 🔐 | 🛑  | |
| └ | _transfer | Private 🔐 | 🛑  | |
| └ | sendToWallet | Private 🔐 | 🛑  | |
| └ | swapAndLiquify | Private 🔐 | 🛑  | lockTheSwap |
```

└	swapTokensForBNB	Private 🔐	🛑	
└	addLiquidity	Private 🔐	🛑	
└	remove_Random_Tokens	Public ❗️	🛑	NO❗️
└	_tokenTransfer	Private 🔐	🛑	

Legend

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

STATIC ANALYSIS



```
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-4

Variable IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (contracts/Token.sol#355) is too similar to IUniswapV2Router01.addLiquidit
y(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/Token.sol#356)
Variable DollarShibainu.swapAndLiquify(uint256).tokens_to_D (contracts/Token.sol#789) is too similar to DollarShibainu.swapAndLiquify(uint256).tokens_to_M (contracts/Token.sol#788)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

DollarShibainu.slitherConstructorVariables() (contracts/Token.sol#543-883) uses literals with too many digits:
        - _tTotal = 10000000000000 * 10 ** 4 * 10 ** 4 * 10 ** _decimals (contracts/Token.sol#577-578)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits

DollarShibainu.MAX (contracts/Token.sol#575) is never used in DollarShibainu (contracts/Token.sol#543-883)
DollarShibainu._previousMaxWalletToken (contracts/Token.sol#590) is never used in DollarShibainu (contracts/Token.sol#543-883)
DollarShibainu._previousMaxTxAmount (contracts/Token.sol#592) is never used in DollarShibainu (contracts/Token.sol#543-883)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable

DollarShibainu.Percent_AutoLP (contracts/Token.sol#588) should be constant
DollarShibainu.Percent_Burn (contracts/Token.sol#587) should be constant
DollarShibainu.Percent_Dev (contracts/Token.sol#586) should be constant
DollarShibainu.Percent_Marketing (contracts/Token.sol#585) should be constant
DollarShibainu.Wallet_Dev (contracts/Token.sol#571-572) should be constant
DollarShibainu.Wallet_Marketing (contracts/Token.sol#569-570) should be constant
DollarShibainu._Tax_On_Buy (contracts/Token.sol#583) should be constant
DollarShibainu._Tax_On_Sell (contracts/Token.sol#584) should be constant
DollarShibainu.swapAndLiquifyEnabled (contracts/Token.sol#596) should be constant
DollarShibainu.swapTrigger (contracts/Token.sol#582) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

DollarShibainu._maxTxAmount (contracts/Token.sol#591) should be immutable
DollarShibainu._maxWalletToken (contracts/Token.sol#589) should be immutable
DollarShibainu._previousMaxTxAmount (contracts/Token.sol#592) should be immutable
DollarShibainu._previousMaxWalletToken (contracts/Token.sol#590) should be immutable
DollarShibainu.uniswapV2Pair (contracts/Token.sol#594) should be immutable
DollarShibainu.uniswapV2Router (contracts/Token.sol#593) 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 issues found

FUNCTIONAL TESTING

Router (PCS V2):
0xD99D1c33F9fC3444f8101754aBC46c52416550D1

1- Adding Liquidity (Passed):
liquidity added on Pancakeswap V2:

https://testnet.bscscan.com/tx/0x1e8d0c57f074f785d429d1d51f85c2910ea23753bd21d53ff339cce99ad2546c

2- Buying when excluded (0%)(Passed):

https://testnet.bscscan.com/tx/0x4e80f7c73bf18843439c4a06d43602a2fd0ad9944be6c4138a77347d6581bd1c

3- Selling when excluded (0%)(Passed):

https://testnet.bscscan.com/tx/0xe9de80d71697ef9cab5414c997b239729df1e29e203bf66891bb0732c31d4a78

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

https://testnet.bscscan.com/tx/0xb6256d59a93e194899b8307a9fbee5bedfc4e3ebb484c69faeb56a11ba518770

5- Buying when not excluded from fees (8% tax) (passed):

https://testnet.bscscan.com/tx/0x89a840cf9e66dac36ba490ef2abe20e37341d67ba78736885f9b404695860343

FUNCTIONAL TESTING

6- Selling when not excluded from fees (8% tax) (passed):

https://testnet.bscscan.com/tx/0xde8881e63eea20aa0e4a4d1865348cdfcf37448104806e510a951bf7f9b1e922

7- Transferring when not excluded from fees (8% tax) (passed):

https://testnet.bscscan.com/tx/0x088ae891bb23ab3fc805359d9f960ac6ee2f11d1ff48f2ecb011e077de5936ee

MANUAL TESTING

No issues found

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