



Smart Contract Audit

FOR

Baby Shiba Inu

DATED : 30 August 23'



AUDIT SUMMARY

Project name – Baby Shiba Inu

Date: 30 August 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 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/0x6D83f5BD34f7b9120885cA4c0B256848Fa2F0E26>



Token Information

Token Address :

0x1bDf3De5C26D55b61eECEEeAA3A8563b23e76136

Name: Baby Shiba Inu

Symbol: BABYSHIB

Decimals: 18

Netowrk: Ethereum

Token Type: ERC20

Owner: 0xe981a4153C14b2d5892cD373f7FB0130DAE1BdF1
(at time of writing the audit)

Deployer: 0xe981a4153C14b2d5892cD373f7FB0130DAE1BdF1

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

Checksum:

0ac8b43689586ec2f0b310755151bdcd87dba981

Testnet version:

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TOKEN OVERVIEW

buy fee: 0%

Sell fee: 0%

transfer fee: 0%

Fee Privilege: Static fees

Ownership: Owned

Minting: None

Max Tx: No

Blacklist: No

Other Privileges:

- Initial distribution of the tokens



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

0

◆ Medium-Risk

0

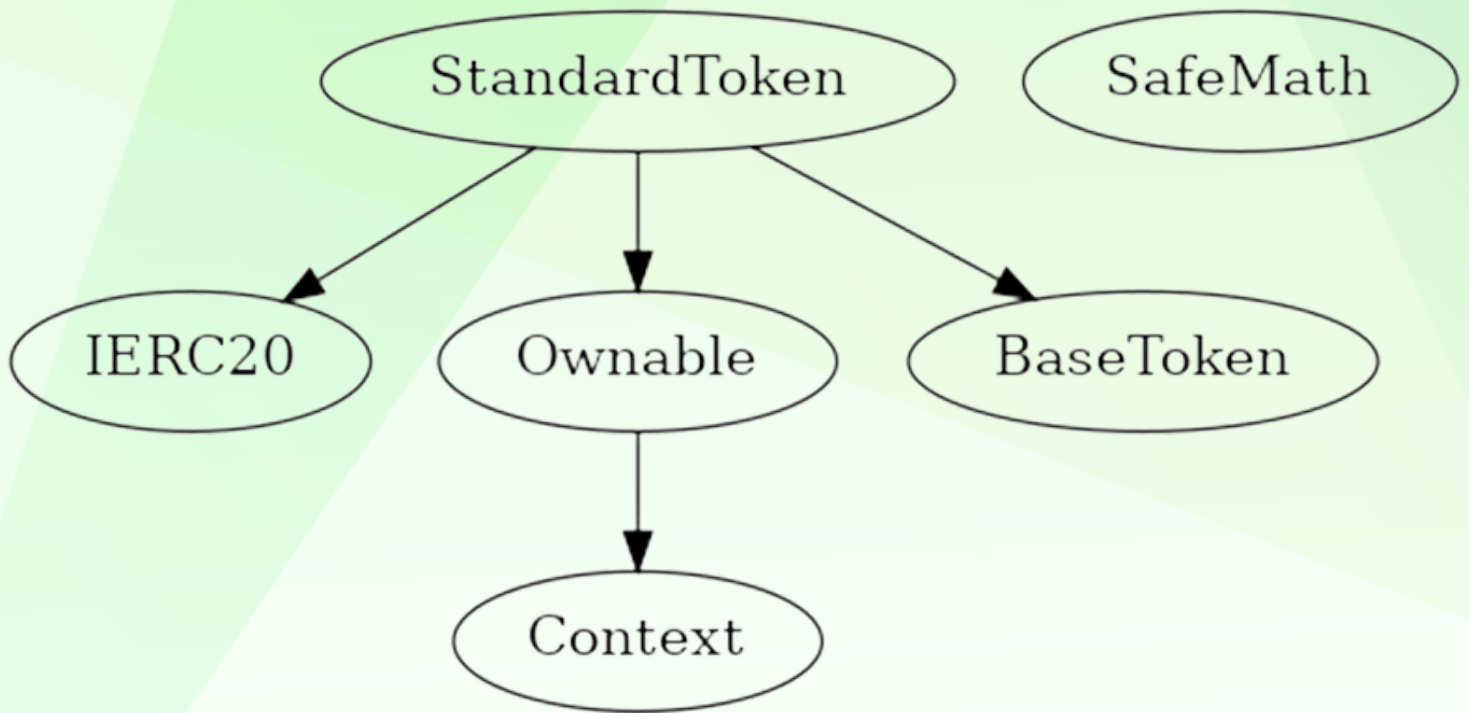
◆ Low-Risk

0

◆ Gas Optimization / Suggestions

0

INHERITANCE TREE



POINTS TO NOTE

- Fees are 0 (static)
 - Owner is not able to blacklist an arbitrary address.
 - Owner is not able to disable trades
 - Owner is not able to limit buy/sell/transfer/wallet amounts
 - Owner is not able to mint new tokens
-



STATIC ANALYSIS

```
StandardToken.allowance(address,address).owner (contracts/Token.sol#571) shadows:
  - Ownable.owner() (contracts/Token.sol#159-161) (function)
StandardToken._approve(address,address,uint256).owner (contracts/Token.sol#765) shadows:
  - Ownable.owner() (contracts/Token.sol#159-161) (function)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing

Context._msgData() (contracts/Token.sol#118-120) is never used and should be removed
SafeMath.div(uint256,uint256) (contracts/Token.sol#349-351) is never used and should be removed
SafeMath.div(uint256,uint256,string) (contracts/Token.sol#405-414) is never used and should be removed
SafeMath.mod(uint256,uint256) (contracts/Token.sol#365-367) is never used and should be removed
SafeMath.mod(uint256,uint256,string) (contracts/Token.sol#431-440) is never used and should be removed
SafeMath.mul(uint256,uint256) (contracts/Token.sol#335-337) is never used and should be removed
SafeMath.sub(uint256,uint256) (contracts/Token.sol#321-323) is never used and should be removed
SafeMath.tryAdd(uint256,uint256) (contracts/Token.sol#221-230) is never used and should be removed
SafeMath.tryDiv(uint256,uint256) (contracts/Token.sol#272-280) is never used and should be removed
SafeMath.tryMod(uint256,uint256) (contracts/Token.sol#287-295) is never used and should be removed
SafeMath.tryMul(uint256,uint256) (contracts/Token.sol#252-265) is never used and should be removed
SafeMath.trySub(uint256,uint256) (contracts/Token.sol#237-245) is never used and should be removed
StandardToken._burn(address,uint256) (contracts/Token.sol#737-749) is never used and should be removed
StandardToken._setupDecimals(uint8) (contracts/Token.sol#783-785) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version^0.8.17 (contracts/Token.sol#469) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
solc-0.8.19 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Variable StandardToken._totalSupply (contracts/Token.sol#487) is too similar to StandardToken.constructor(string,string,uint8,uint256).totalSupply_ (contracts/Token.sol#493)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

StandardToken._name (contracts/Token.sol#484) should be immutable
StandardToken._symbol (contracts/Token.sol#485) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
(contracts/Token.sol analyzed (6 contracts with 84 detectors): 22 issues(s) found)
```

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

No major issues were found in the output



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 !
	Context Implementation				
⌞	_msgSender	Internal	🔒		
⌞	_msgData	Internal	🔒		
	Ownable Implementation Context				
⌞	<Constructor>	Public	!	●	NO !
⌞	owner	Public	!		NO !
⌞	renounceOwnership	Public	!	●	onlyOwner
⌞	transferOwnership	Public	!	●	onlyOwner
⌞	_setOwner	Private	🔒	●	
	SafeMath Library				
⌞	tryAdd	Internal	🔒		
⌞	trySub	Internal	🔒		
⌞	tryMul	Internal	🔒		
⌞	tryDiv	Internal	🔒		
⌞	tryMod	Internal	🔒		
⌞	add	Internal	🔒		
⌞	sub	Internal	🔒		
⌞	mul	Internal	🔒		
⌞	div	Internal	🔒		
⌞	mod	Internal	🔒		
⌞	sub	Internal	🔒		
⌞	div	Internal	🔒		
⌞	mod	Internal	🔒		



CONTRACT ASSESMENT

```
| **BaseToken** | Implementation | |||
|||||
| **StandardToken** | Implementation | IERC20, Ownable, BaseToken |||
|  | <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  |  | |
|  | _setupDecimals | Internal  |  | |
|  | _beforeTokenTransfer | Internal  |  | |
```

Legend

| Symbol | Meaning |

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

| | Function can modify state |

| | Function is payable |



FUNCTIONAL TESTING

1- Adding liquidity (**passed**):

<https://testnet.bscscan.com/tx/0xd6c45f8f158668e5d3eda6d7d94f83fc44aa54b54da06006f14e474f767e186f>

2- Buying (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xeabe844de844673ba0fc2fc5dc1cb9efe52f990ec130a322989edd40400ec010>

3- Selling (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xc139629aeee9d4ae183d550c983aa46d049ac9d5afd9c3757dbe76e439a98550>

4- Transferring 0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x20af781c6964fcab30524fb02b39ca71bcf972d6f98667e7178f40bcb267d67c>



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