



Smart Contract Audit

FOR

BunnyX

DATED : 4 august 23'



AUDIT SUMMARY

Project name -BunnyX

Date: 4 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	1	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/0xe6be4BE9f6Ec0AE2c26238E3592752d23253194a>



Token Information

Token Name : Bunny

Token Symbol: BunnyX

Decimals: 18

Token Supply: 1,000,000,000

Token Address:

0xD7637A91e6042A230Eb51c15FAa1E259D01a8fd

Checksum:

42abad87538bce881eb83c4cf83893748c052f6

Owner:

0x03dba69ED4D7C30582b45305FF2E14ac1F57EB82

(at time of writing the audit)

Deployer:

0x03dba69ED4D7C30582b45305FF2E14ac1F57EB82



TOKEN OVERVIEW

Fees:

Buy Fees: 0-25%

Sell Fees: 0-25%

Transfer Fees: 0-25%

Fees Privilege: Owner

Ownership: owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: no

Blacklist: No

Other Privileges: Initial distribution of the tokens

Modifying fees



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 Limit and 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



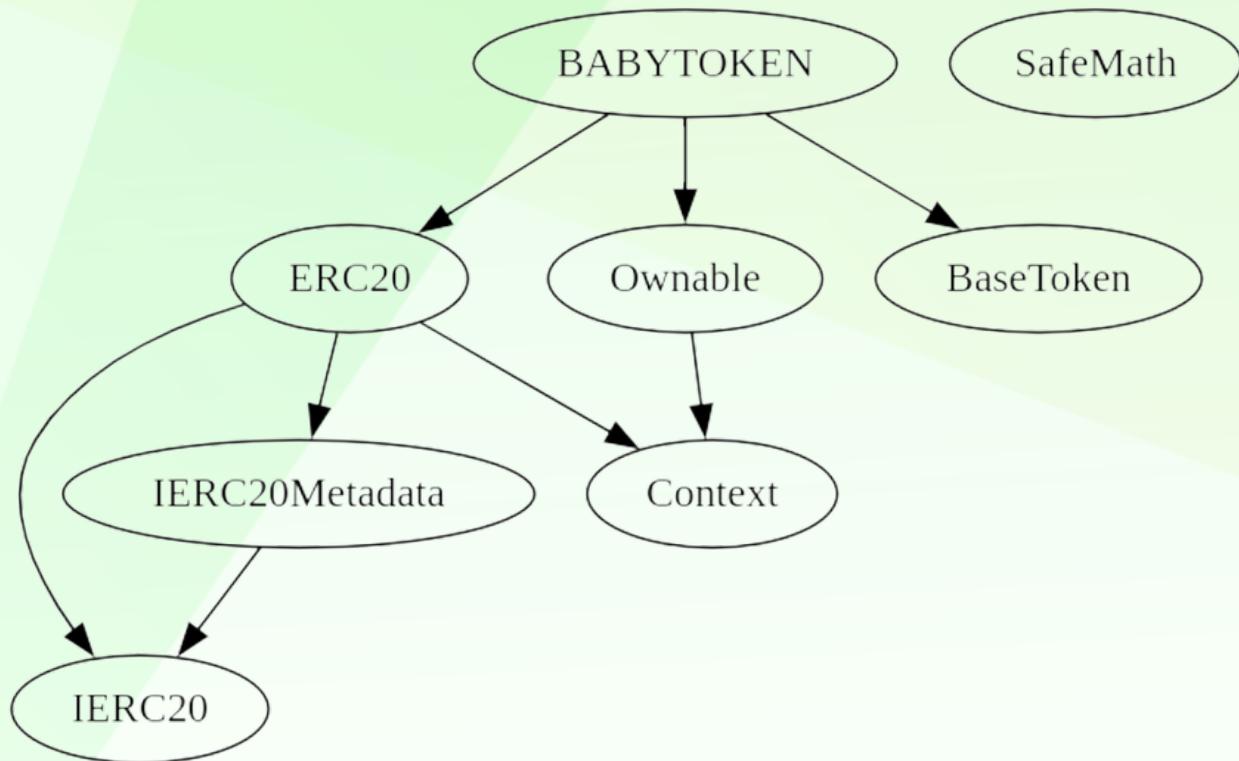
CLASSIFICATION OF RISK

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	1
◆ Low-Risk	0
◆ Gas Optimization / Suggestions	0

INHERITANCE TREE





POINTS TO NOTE

- Owner is able to change buy/sell/transfer fees within 0-25%
- 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 ASSESSMENT

Contract	Type	Bases			
L	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
IERC20 Interface					
L totalSupply External ! NO !					
L balanceOf External ! NO !					
L transfer External ! 🔒 NO !					
L allowance External ! NO !					
L approve External ! 🔒 NO !					
L transferFrom External ! 🔒 NO !					
...					
IERC20Metadata Interface IERC20					
L name External ! NO !					
L symbol External ! NO !					
L decimals External ! NO !					
...					
Context Implementation					
L _msgSender Internal 🔒					
L _msgData Internal 🔒					
ERC20 Implementation Context, IERC20, IERC20Metadata					
L <Constructor> Public ! 🔒 NO !					
L name Public ! NO !					
L symbol Public ! NO !					
L decimals Public ! NO !					
L totalSupply Public ! NO !					
L balanceOf Public ! NO !					
L transfer Public ! 🔒 NO !					
L allowance Public ! NO !					
L approve Public ! 🔒 NO !					
L transferFrom Public ! 🔒 NO !					
L increaseAllowance Public ! 🔒 NO !					
L decreaseAllowance Public ! 🔒 NO !					
L _transfer Internal 🔒 🔒					

CONTRACT ASSESSMENT

```

| L | _mint | Internal 🔒 | ⚡ ||

| L | _burn | Internal 🔒 | ⚡ ||

| L | _approve | Internal 🔒 | ⚡ ||

| L | _beforeTokenTransfer | Internal 🔒 | ⚡ ||

| L | _afterTokenTransfer | Internal 🔒 | ⚡ ||

|||||  

| **Ownable** | Implementation | Context |||  

| L | <Constructor> | Public ! | ⚡ | NO ! |  

| L | owner | Public ! | NO ! |  

| L | renounceOwnership | Public ! | ⚡ | onlyOwner |  

| L | transferOwnership | Public ! | ⚡ | onlyOwner |  

| L | _setOwner | Private 🔒 | ⚡ ||

|||||  

| **SafeMath** | Library | |||  

| L | tryAdd | Internal 🔒 | |||  

| L | trySub | Internal 🔒 | |||  

| L | tryMul | Internal 🔒 | |||  

| L | tryDiv | Internal 🔒 | |||  

| L | tryMod | Internal 🔒 | |||  

| L | add | Internal 🔒 | |||  

| L | sub | Internal 🔒 | |||  

| L | mul | Internal 🔒 | |||  

| L | div | Internal 🔒 | |||  

| L | mod | Internal 🔒 | |||  

| L | sub | Internal 🔒 | |||  

| L | div | Internal 🔒 | |||  

| L | mod | Internal 🔒 | |||  

|||||  

| **Clones** | Library | |||  

| L | clone | Internal 🔒 | ⚡ |||  

| L | cloneDeterministic | Internal 🔒 | ⚡ |||  

| L | predictDeterministicAddress | Internal 🔒 | |||  

| L | predictDeterministicAddress | Internal 🔒 | |||  

|||||  

| **Address** | Library | |||  

| L | isContract | Internal 🔒 | |||  

| L | sendValue | Internal 🔒 | ⚡ |||

```

CONTRACT ASSESSMENT

```

|_-| functionCall | Internal | 🔒 | 🚫 ||

|_-| functionCall | Internal | 🔒 | 🚫 ||

|_-| functionCallWithValue | Internal | 🔒 | 🚫 ||

|_-| functionCallWithValue | Internal | 🔒 | 🚫 ||

|_-| functionStaticCall | Internal | 🔒 | ||

|_-| functionStaticCall | Internal | 🔒 | ||

|_-| functionDelegateCall | Internal | 🔒 | 🚫 ||

|_-| functionDelegateCall | Internal | 🔒 | 🚫 ||

|_-| verifyCallResult | Internal | 🔒 | ||

|||||  

| **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 ! |  

|||||  

| **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 ! |

```

CONTRACT ASSESSMENT

```

| L | getAmountOut | External ! | NO ! | |
| L | getAmountIn | External ! | NO ! |
| L | getAmountsOut | External ! | NO ! |
| L | getAmountsIn | External ! | NO ! |
||||
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 ||
| L | removeLiquidityETHSupportingFeeOnTransferTokens | External ! | 🔴 | NO ! |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! | 🔴 | NO ! |
|
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | 🔴 | NO ! |
| L | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | 🔴 | NO ! |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | 🔴 | NO ! |
||||
| **IERC20Upgradeable** | Interface | ||
| L | totalSupply | External ! | NO ! |
| L | balanceOf | External ! | NO ! |
| L | transfer | External ! | 🔴 | NO ! |
| L | allowance | External ! | NO ! |
| L | approve | External ! | 🔴 | NO ! |
| L | transferFrom | External ! | 🔴 | NO ! |
||||
| **IERC20MetadataUpgradeable** | Interface | IERC20Upgradeable ||
| L | name | External ! | NO ! |
| L | symbol | External ! | NO ! |
| L | decimals | External ! | NO ! |
||||
| **Initializable** | Implementation | ||
||||
| **ContextUpgradeable** | Implementation | Initializable ||
| L | __Context_init | Internal 🔒 | 🔴 | initializer |
| L | __Context_init_unchained | Internal 🔒 | 🔴 | initializer |
| L | _msgSender | Internal 🔒 | ||
| L | _msgData | Internal 🔒 | ||
||||
| **ERC20Upgradeable** | Implementation | Initializable, ContextUpgradeable,
IERC20Upgradeable, IERC20MetadataUpgradeable ||
| L | __ERC20_init | Internal 🔒 | 🔴 | initializer |

```

CONTRACT ASSESSMENT

```

| L | __ERC20_init_unchained | Internal 🔒 | 🚫 | initializer |
| L | name | Public ! | |NO ! | 
| L | symbol | Public ! | |NO ! | 
| L | decimals | Public ! | |NO ! | 
| L | totalSupply | Public ! | |NO ! | 
| L | balanceOf | Public ! | |NO ! | 
| L | transfer | Public ! | 🚫 |NO ! | 
| L | allowance | Public ! | |NO ! | 
| L | approve | Public ! | 🚫 |NO ! | 
| L | transferFrom | Public ! | 🚫 |NO ! | 
| L | increaseAllowance | Public ! | 🚫 |NO ! | 
| L | decreaseAllowance | Public ! | 🚫 |NO ! | 
| L | _transfer | Internal 🔒 | 🚫 || 
| L | _mint | Internal 🔒 | 🚫 || 
| L | _burn | Internal 🔒 | 🚫 || 
| L | _approve | Internal 🔒 | 🚫 || 
| L | _beforeTokenTransfer | Internal 🔒 | 🚫 || 
| L | _afterTokenTransfer | Internal 🔒 | 🚫 || 
|||||
| **OwnableUpgradeable** | Implementation | Initializable, ContextUpgradeable ||| 
| L | __Ownable_init | Internal 🔒 | 🚫 | initializer | 
| L | __Ownable_init_unchained | Internal 🔒 | 🚫 | initializer | 
| L | owner | Public ! | |NO ! | 
| L | renounceOwnership | Public ! | 🚫 | onlyOwner | 
| L | transferOwnership | Public ! | 🚫 | onlyOwner | 
| L | _setOwner | Private 🔒 | 🚫 || 
|||||
| **IUniswapV2Pair** | Interface | ||| 
| L | name | External ! | |NO ! | 
| L | symbol | External ! | |NO ! | 
| L | decimals | External ! | |NO ! | 
| L | totalSupply | External ! | |NO ! | 
| L | balanceOf | External ! | |NO ! | 
| L | allowance | External ! | |NO ! | 
| L | approve | External ! | 🚫 |NO ! | 
| L | transfer | External ! | 🚫 |NO ! | 

```

CONTRACT ASSESSMENT

```

| L | transferFrom | External ! | 🔴 | NO ! | |
| L | DOMAIN_SEPARATOR | External ! | | NO ! |
| L | PERMIT_TYPEHASH | External ! | | NO ! |
| L | nonces | External ! | NO ! |
| L | permit | External ! | 🔴 | NO ! |
| L | MINIMUM_LIQUIDITY | External ! | | NO ! |
| L | factory | External ! | | NO ! |
| L | token0 | External ! | NO ! |
| L | token1 | External ! | NO ! |
| L | getReserves | External ! | NO ! |
| L | price0CumulativeLast | External ! | NO ! |
| L | price1CumulativeLast | External ! | NO ! |
| L | kLast | External ! | NO ! |
| L | mint | External ! | 🔴 | NO ! |
| L | burn | External ! | 🔴 | NO ! |
| L | swap | External ! | 🔴 | NO ! |
| L | skim | External ! | 🔴 | NO ! |
| L | sync | External ! | 🔴 | NO ! |
| L | initialize | External ! | 🔴 | NO ! |
|||||
| **SafeMathInt** | Library | ||
| L | mul | Internal 🔒 | |||
| L | div | Internal 🔒 | |||
| L | sub | Internal 🔒 | |||
| L | add | Internal 🔒 | |||
| L | abs | Internal 🔒
| L | toUint256Safe | Internal 🔒 | |||
|||||
| **SafeMathUint** | Library | ||
| L | toInt256Safe | Internal 🔒 | |||
|||||
| **IterableMapping** | Library | ||
| L | get | Internal 🔒 | |||
| L | getIndexOfKey | Internal 🔒 | |||
| L | getKeyAtIndex | Internal 🔒 | |||
| L | size | Internal 🔒 | |||
| L | set | Internal 🔒 | 🔴

```

CONTRACT ASSESSMENT

```

| L | remove | Internal 🔒 | ⚡ ||

||||| |
| **DividendPayingTokenInterface** | Interface | ||
| L | dividendOf | External ! | NO ! |
| L | withdrawDividend | External ! | ⚡ | NO ! |
|||||
| **DividendPayingTokenOptionalInterface** | Interface | ||
| L | withdrawableDividendOf | External ! | NO ! |
| L | withdrawnDividendOf | External ! | NO ! |
| L | accumulativeDividendOf | External ! | NO ! |
|||||
| **DividendPayingToken** | Implementation | ERC20Upgradeable, OwnableUpgradeable,
DividendPayingTokenInterface, DividendPayingTokenOptionalInterface ||
| L | _DividendPayingToken_init | Internal 🔒 | ⚡ | initializer |
| L | distributeCAKEDividends | Public ! | ⚡ | onlyOwner |
| L | withdrawDividend | Public ! | ⚡ | NO ! |
| L | _withdrawDividendOfUser | Internal 🔒 | ⚡ ||

| L | dividendOf | Public ! | NO ! | |
| L | withdrawableDividendOf | Public ! | NO ! |
| L | withdrawnDividendOf | Public ! | NO ! |
| L | accumulativeDividendOf | Public ! | NO ! |
| L | _transfer | Internal 🔒 | ⚡ ||

| L | _mint | Internal 🔒 | ⚡ ||

| L | _burn | Internal 🔒 | ⚡ ||

| L | _setBalance | Internal 🔒 | ⚡ ||

|||||
| **BABYTOKENDividendTracker** | Implementation | OwnableUpgradeable,
DividendPayingToken |
| L | initialize | External ! | ⚡ | initializer |
| L | _transfer | Internal 🔒 | ||

| L | withdrawDividend | Public ! | NO ! | |
| L | excludeFromDividends | External ! | ⚡ | onlyOwner |
| L | isExcludedFromDividends | Public ! | NO ! |
| L | updateClaimWait | External ! | ⚡ | onlyOwner |
| L | updateMinimumTokenBalanceForDividends | External ! | ⚡ | onlyOwner |
| L | getLastProcessedIndex | External ! | NO ! |
| L | getNumberOfTokenHolders | External ! | NO ! |
| L | getAccount | Public ! | NO ! |

```

CONTRACT ASSESSMENT

```

| L | getAccountAtIndex | Public ! | NO ! | | |
| L | canAutoClaim | Private 🔒 |
| L | setBalance | External ! | 🔑 | onlyOwner |
| L | process | Public ! | 🔑 | NO ! |
| L | processAccount | Public ! | 🔑 | onlyOwner |
|||
| **BaseToken** | Implementation | ||
|||
| **BABYTOKEN** | Implementation | ERC20, Ownable, BaseToken ||
| L | <Constructor> | Public ! | 📄 | ERC20 |
| L | <Receive Ether> | External ! | 📄 | NO ! |
| L | setSwapTokensAtAmount | External ! | 🔑 | onlyOwner |
| L | excludeFromFees | External ! | 🔑 | onlyOwner |
| L | excludeMultipleAccountsFromFees | External ! | 🔑 | onlyOwner |
| L | setMarketingWallet | External ! | 🔑 | onlyOwner |
| L | setTokenRewardsFee | External ! | 🔑 | onlyOwner |
| L | setLiquiditFee | External ! | 🔑 | onlyOwner |
| L | setMarketingFee | External ! | 🔑 | onlyOwner |
| L | _setAutomatedMarketMakerPair | Private 🔒 | 🔑 |||
| L | updateGasForProcessing | Public ! | 🔑 | onlyOwner |
| L | updateClaimWait | External ! | 🔑 | onlyOwner |
| L | getClaimWait | External ! | NO ! |
| L | updateMinimumTokenBalanceForDividends | External ! | 🔑 | onlyOwner |
| L | getMinimumTokenBalanceForDividends | External ! | NO ! |
| L | getTotalDividendsDistributed | External ! | NO ! |
| L | isExcludedFromFees | Public ! | NO ! |
| L | withdrawableDividendOf | Public ! | NO ! |
| L | dividendTokenBalanceOf | Public ! | NO ! |
| L | excludeFromDividends | External ! | 🔑 | onlyOwner |
| L | isExcludedFromDividends | Public ! | NO ! |
| L | getAccountDividendsInfo | External ! | NO ! |
| L | getAccountDividendsInfoAtIndex | External ! | NO ! |
| L | processDividendTracker | External ! | 🔑 | NO ! |
| L | claim | External ! | 🔑 | NO ! |
| L | getLastProcessedIndex | External ! | NO ! |
| L | getNumberOfDividendTokenHolders | External ! | NO ! |

```

CONTRACT ASSESSMENT

	L	_transfer	Internal			
	L	swapAndSendToFee	Private			
	L	swapAndLiquify	Private			
	L	swapTokensForEth	Private			
	L	swapTokensForCake	Private			
	L	addLiquidity	Private			
	L	swapAndSendDividends	Private			

Legend

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



STATIC ANALYSIS

```
Function OwnableUpgradable._Ownable_init() (contracts/Token.sol#2087-2090) is not in mixedCase
Function OwnableUpgradable._Ownable_init_unchained() (contracts/Token.sol#2092-2094) is not in mixedCase
Variable OwnableUpgradable._gap (contracts/Token.sol#2140) is not in mixedCase
Function IUniswapV2Pair.DOMAIN_SEPARATOR() (contracts/Token.sol#2176) is not in mixedCase
Function IUniswapV2Pair.PERMIT_TYPEHASH() (contracts/Token.sol#2178) is not in mixedCase
Function IUniswapV2Pair.MINIMUM_LIQUIDITY() (contracts/Token.sol#2209) is not in mixedCase
Function DividendPayingToken._DividendPayingToken_init(address,string,string) (contracts/Token.sol#2507-2515) is not in mixedCase
Parameter DividendPayingToken._DividendPayingToken_init(address,string,string)._rewardToken (contracts/Token.sol#2508) is not in mixedCase
Parameter DividendPayingToken._DividendPayingToken_init(address,string,string).name (contracts/Token.sol#2509) is not in mixedCase
Parameter DividendPayingToken._DividendPayingToken_init(address,string,string).symbol (contracts/Token.sol#2510) is not in mixedCase
Parameter DividendPayingToken.dividendOf(address,.owner) (contracts/Token.sol#2568) is not in mixedCase
Parameter DividendPayingToken.withdrawableOf(address,.owner) (contracts/Token.sol#2576) is not in mixedCase
Parameter DividendPayingToken.withdrawnDividendOf(address,.owner) (contracts/Token.sol#2585) is not in mixedCase
Parameter DividendPayingToken.accumulativeDividendOf(address,.owner) (contracts/Token.sol#2596) is not in mixedCase
Constant DividendPayingToken.magnitude (contracts/Token.sol#2487) is not in UPPER_CASE_WITH_UNDERSCORES
Parameter BABYTOKENDividendTracker.getAccount(address,.account) (contracts/Token.sol#2757) is not in mixedCase
Variable BABYTOKEN._marketingWalletAddress (contracts/Token.sol#2982) 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).amountBDesired (contracts/Token.sol#1261) is too similar to IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/Token.sol#1262)
Variable DividendPayingToken._DividendPayingToken_init(address,string,string)._rewardToken (contracts/Token.sol#2508) is too similar to BABYTOKENDividendTracker.initialize(address,uint256).rewardToken (contracts/Token.sol#2699)
Variable DividendPayingToken.withdrawDividendOfUser(address,.withdrawableDividend) (contracts/Token.sol#2541) is too similar to BABYTOKENDividendTracker.getAccount(address).withdrawableDividends (contracts/Token.sol#2765)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

Clones.clone(address) (contracts/Token.sol#880-895) uses literals with too many digits:
- mstore(0x256, uint256)(ptr_clone.asm 0,0x3d602d00600a3d3981f3363dd3d3d3d7300000000000000000000000000000000) (contracts/Token.sol#883-886)
Clones.clone(address) (contracts/Token.sol#880-895) uses literals with too many digits:
- mstore(0x256, uint256)(ptr_clone.asm 0 + 0x28,0x5af43d82803e903d91602b577dfb3f00000000000000000000000000000000) (contracts/Token.sol#888-891)
Clones.cloneDeterministic(address,bytes32) (contracts/Token.sol#904-922) uses literals with too many digits:
- mstore(0x256, uint256)(ptr_cloneDeterministic.asm 0,0x3d602d00600a3d3981f3363dd3d3d3d3d73000000000000000000000000000000) (contracts/Token.sol#910-913)
Clones.cloneDeterministic(address,bytes32) (contracts/Token.sol#904-922) uses literals with too many digits:
- mstore(0x256, uint256)(ptr_cloneDeterministic.asm 0 + 0x28,0x5af43d82803e903d91602b577dfb5ff00000000000000000000000000000000) (contracts/Token.sol#915-918)
Clones.predictDeterministicAddress(address,bytes32,addr) (contracts/Token.sol#927-948) uses literals with too many digits:
- mstore(0x256, uint256)(ptr_predictDeterministicAddress.asm 0,0x3d602d00600a3d3981f3363dd3d3d3d7300000000000000000000000000000000) (contracts/Token.sol#934-937)
Clones.predictDeterministicAddress(address,bytes32,addr) (contracts/Token.sol#927-948) uses literals with too many digits:
- mstore(0x256, uint256)(ptr_predictDeterministicAddress.asm 0 + 0x28,0x5af43d82803e903d91602b577dfb3ff00000000000000000000000000000000) (contracts/Token.sol#939-942)
BABYTOKEN.constructor(string,string,uint256,address[4],uint256[3],uint256) (contracts/Token.sol#3020-3083) uses literals with too many digits:
- gasForProcessing = 300000 (contracts/Token.sol#3047)
BABYTOKEN.updateGasForProcessing(uint256) (contracts/Token.sol#3156-3167) uses literals with too many digits:
- require(bool,string)(newValue >= 200000 && newValue <= 500000, BABYTOKEN: gasForProcessing must be between 200,000 and 500,000) (contracts/Token.sol#3157-3160)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits

SafeMathInt.MAX_INT256 (contracts/Token.sol#2256) is never used in SafeMathInt (contracts/Token.sol#2254-2311)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable

BABYTOKEN.dividendTracker (contracts/Token.sol#2971) should be immutable
BABYTOKEN.rewardToken (contracts/Token.sol#2973) should be immutable
BABYTOKEN.uniswapV2Pair (contracts/Token.sol#2967) should be immutable
BABYTOKEN.uniswapV2Router (contracts/Token.sol#2966) 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

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

<https://testnet.bscscan.com/tx/0xbc65c737b180fa077cd584d08de9371b18430dc92b180686095eed83b648f93a>

2- Buying when excluded from fees (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x7134754569453667c9c041f1f90dc7c89d24cdb4ce35a520c1392b068de922a8>

3- Selling when excluded from fees (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x44c698151dcf54497bc57f62da1ed54277587e7296ef9de6893798cf0799c5c3>

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

<https://testnet.bscscan.com/tx/0x566fed52fd4df0ad1cecfe4105a05a10fdcf0f251f162bd6ad32e369d51454db>

5- Buying when not excluded from fees (0-25% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x62441a4d2098ee813014464fc5e62da44c46affe6553fed23895d77d5a322d58>

6- Selling when not excluded from fees (0-25% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xbf45653d7300347c12b426d5d957ce1060e82d8fef0014b1537d0f350bdb4286>



FUNCTIONAL TESTING

7- Transferring (0-25% tax) (passed):

<https://testnet.bscscan.com/tx/0xd09cf2f4276a4ee84aee2966f1121a05cd9712fa4d5a0a06fcacb9eaa2700bb5>

8- Internal swap (passed):

- Marketing wallet received BUSD (BUSD used for testing)
- Auto-liquidity
- Reward distribution

<https://testnet.bscscan.com/tx/0xbf45653d7300347c12b426d5d957ce1060e82d8fef0014b1537d0f350bdb4286>



MANUAL TESTING

Centralization – Excessive fees

Status: Not Resolved

Severity: Medium

Function(s): setTokenRewardsFee – setLiquiditFee -
setMarketingFee

Overview:

Contract owner is able to change total buy/sell/transfer fees in range 0-25% which is considered a high amount of tax (if all set to maximum):

```
function setTokenRewardsFee(uint256 value) external onlyOwner {  
    tokenRewardsFee = value;  
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);  
    require(totalFees <= 25, "Total fee is over 25%");  
}  
  
function setLiquiditFee(uint256 value) external onlyOwner {  
    liquidityFee = value;  
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);  
    require(totalFees <= 25, "Total fee is over 25%");  
}  
  
function setMarketingFee(uint256 value) external onlyOwner {  
    marketingFee = value;  
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);  
    require(totalFees <= 25, "Total fee is over 25%");  
}
```

Suggestion:

Make sure that fees are adjustable within a safe and reasonable range:

$0 \leq \text{total fees (buy/sell/transfer)} \leq 10$



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