AuditAce
FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

BABYFLOKICEO

DATED : 13 APR 23'

AUDIT SUMMARY

Project name – BABYFLOKICEO

Date:12 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	1	0	1
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0

USED TOOLS

Tools:

1.Manual Review:
The code has undergone a line-by-line review by the 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.

Token Information

Name : BABYFLOKICEO

Symbol : BABYFLOKICEO

Decimals: 9

Netowrk: Binance smart chain

Token Type: BEP20

Owner:
0xCbbB74c36De813C3F39347f3dD5A29323BbF26cE
(at time of audit)

Deployer:
0xFe27c8197F41acC690AF125D6577304934C91CAB

Token Address :
0x26378947D80d491D2D57878b9E94B9b3EfC5f0ac

Token Information

Fees:

Buy Fees: 10%

Sell Fees: 10%

Transfer Fees: 10%

Fees Privilige: owner (transfer fees)

Ownership : Owned

Minting: None

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: Changing transfer fees - excluding wallets from fees - including wallets in 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 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

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

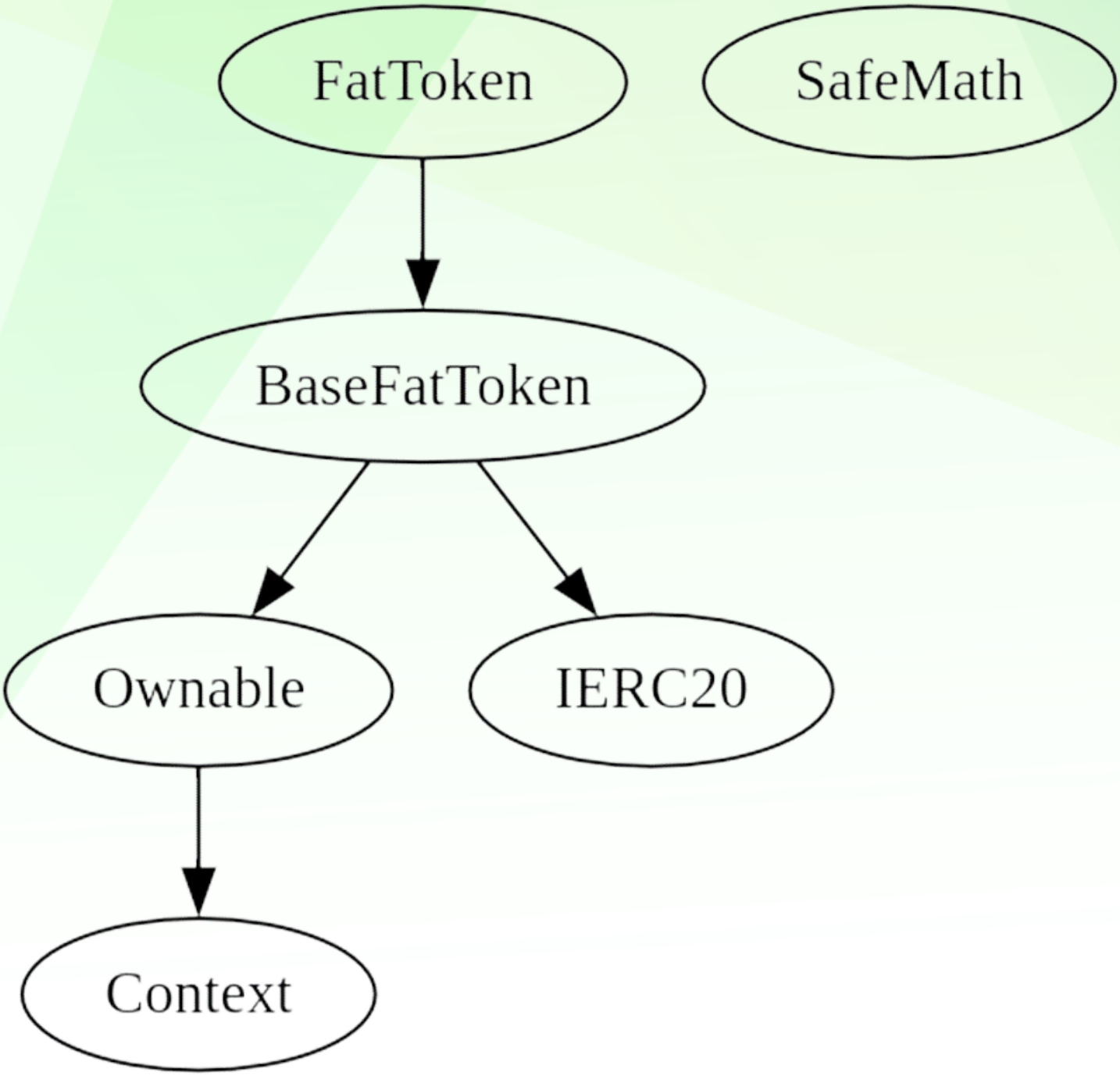
CLASSIFICATION OF RISK

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	1

INHERITANCE TREE



POINTS TO NOTE

- Owner is not able to modify buy/sell/transfer fees (10% 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**
Context	Implementation			
└	_msgSender	Internal 🔒		
└	_msgData	Internal 🔒		
Ownable	Implementation	Context		
└	<Constructor>	Public ❗	🛑	NO ❗
└	renounceOwnership	Public ❗	🛑	onlyOwner
└	transferOwnership	Public ❗	🛑	onlyOwner
└	owner	Public ❗		NO ❗
SafeMath	Library			
└	add	Internal 🔒		
└	sub	Internal 🔒		
└	sub	Internal 🔒		
└	mul	Internal 🔒		
└	div	Internal 🔒		
└	div	Internal 🔒		
└	mod	Internal 🔒		
└	mod	Internal 🔒		
IERC20	Interface			
└	name	External ❗		NO ❗
└	symbol	External ❗		NO ❗
└	totalSupply	External ❗		NO ❗
└	decimals	External ❗		NO ❗
└	balanceOf	External ❗		NO ❗
└	transfer	External ❗	🛑	NO ❗
└	allowance	External ❗		NO ❗
└	approve	External ❗	🛑	NO ❗
└	transferFrom	External ❗	🛑	NO ❗
IPancakeRouter01	Interface			
└	factory	External ❗		NO ❗
└	WETH	External ❗		NO ❗
└	addLiquidity	External ❗	🛑	NO ❗
└	addLiquidityETH	External ❗	💵	NO ❗
IPancakeRouter02	Interface	IPancakeRouter01		

CONTRACT ASSESMENT

└	swapExactTokensForTokensSupportingFeeOnTransferTokens	External ❗	🛑	NO ❗
└	swapExactTokensForETHSupportingFeeOnTransferTokens	External ❗	🛑	NO ❗
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 ❗
BaseFatToken	Implementation	IERC20, Ownable		
└	setFundAddress	External ❗	🛑	onlyOwner
└	changeSwapLimit	External ❗	🛑	onlyOwner
└	changeWalletLimit	External ❗	🛑	onlyOwner
└	launch	External ❗	🛑	onlyOwner
└	disableSwapLimit	Public ❗	🛑	onlyOwner
└	disableWalletLimit	Public ❗	🛑	onlyOwner
└	disableChangeTax	Public ❗	🛑	onlyOwner
└	completeCustoms	External ❗	🛑	onlyOwner
└	transfer	External ❗	🛑	NO ❗
└	transferFrom	External ❗	🛑	NO ❗
└	balanceOf	Public ❗		NO ❗
└	allowance	Public ❗		NO ❗
└	approve	Public ❗	🛑	NO ❗
└	_approve	Private 🔐	🛑	
└	setFeeWhiteList	External ❗	🛑	onlyOwner
└	multi_bclist	Public ❗	🛑	onlyOwner
TokenDistributor	Implementation			
└	<Constructor>	Public ❗	🛑	NO ❗
FatToken	Implementation	BaseFatToken		
└	<Constructor>	Public ❗	🛑	NO ❗
└	transfer	Public ❗	🛑	NO ❗
└	transferFrom	Public ❗	🛑	NO ❗
└	setkb	Public ❗	🛑	onlyOwner
└	isReward	Public ❗		NO ❗
└	setAirDropEnable	Public ❗	🛑	onlyOwner
└	_basicTransfer	Internal 🔒	🛑	

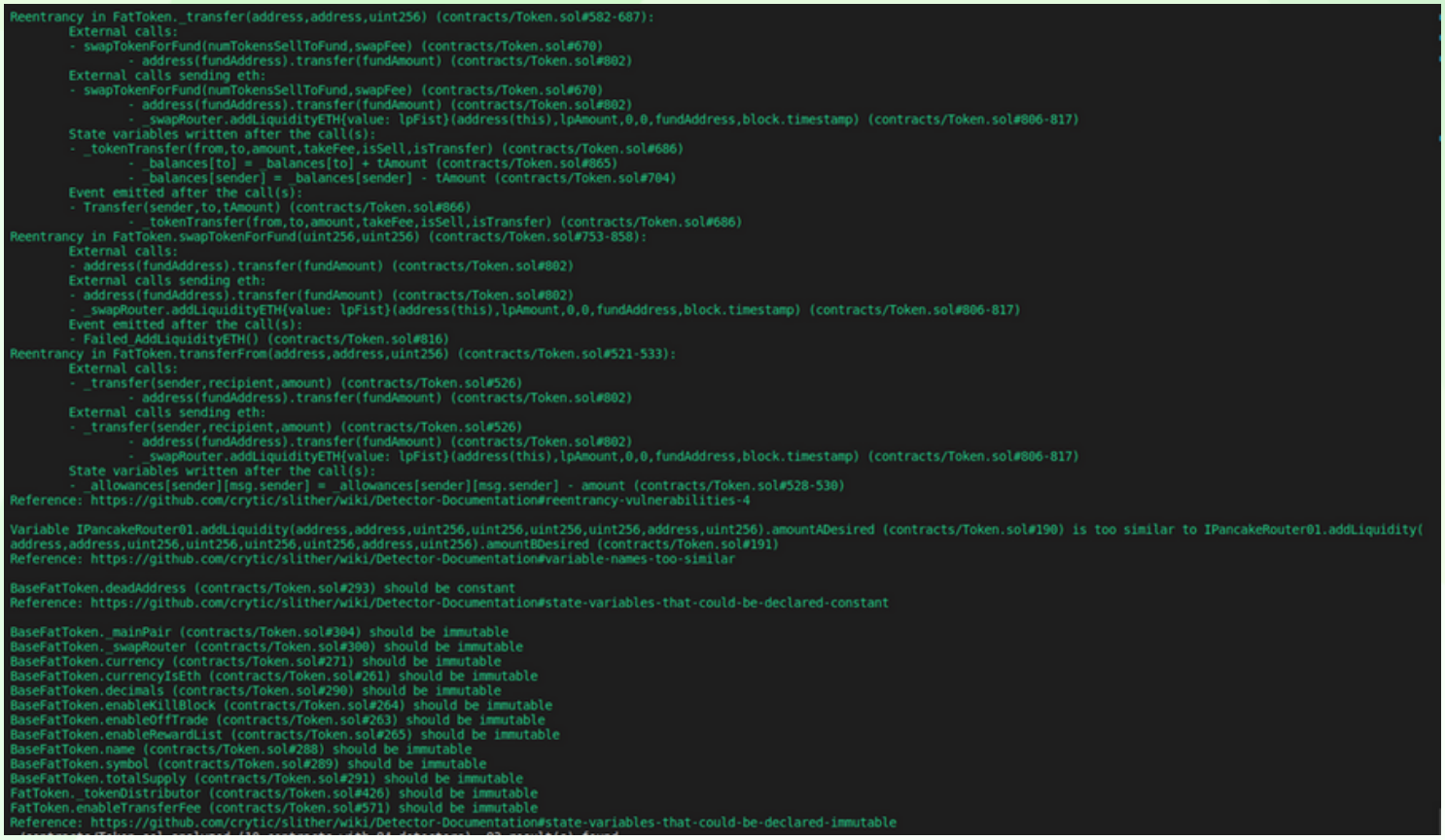
CONTRACT ASSESMENT

└	setAirdropNumbs	Public ❗	🛑	onlyOwner
└	setEnableTransferFee	Public ❗	🛑	onlyOwner
└	_transfer	Private 🔐	🛑	
└	setTransferFee	Public ❗	🛑	onlyOwner
└	_tokenTransfer	Private 🔐	🛑	
└	swapTokenForFund	Private 🔐	🛑	lockTheSwap
└	_takeTransfer	Private 🔐	🛑	
└	setSwapPairList	External ❗	🛑	onlyOwner
└	<Receive Ether>	External ❗	💵	NO ❗

Legend

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

STATIC ANALYSIS



```
Reentrancy in FatToken._transfer(address,address,uint256) (contracts/Token.sol#582-687):
        External calls:
        - swapTokenForFund(numTokensSellToFund,swapFee) (contracts/Token.sol#670)
                - address(fundAddress).transfer(fundAmount) (contracts/Token.sol#802)
        External calls sending eth:
        - swapTokenForFund(numTokensSellToFund,swapFee) (contracts/Token.sol#670)
                - address(fundAddress).transfer(fundAmount) (contracts/Token.sol#802)
                - _swapRouter.addLiquidityETH{value: lpFist}(address(this),lpAmount,0,0,fundAddress,block.timestamp) (contracts/Token.sol#806-817)
        State variables written after the call(s):
        - _tokenTransfer(from,to,amount,takeFee,isSell,isTransfer) (contracts/Token.sol#686)
                - _balances[to] = _balances[to] + tAmount (contracts/Token.sol#865)
                - _balances[sender] = _balances[sender] - tAmount (contracts/Token.sol#704)
        Event emitted after the call(s):
        - Transfer(sender,to,tAmount) (contracts/Token.sol#866)
                - _tokenTransfer(from,to,amount,takeFee,isSell,isTransfer) (contracts/Token.sol#686)
Reentrancy in FatToken.swapTokenForFund(uint256,uint256) (contracts/Token.sol#753-858):
        External calls:
        - address(fundAddress).transfer(fundAmount) (contracts/Token.sol#802)
        External calls sending eth:
        - address(fundAddress).transfer(fundAmount) (contracts/Token.sol#802)
        - _swapRouter.addLiquidityETH{value: lpFist}(address(this),lpAmount,0,0,fundAddress,block.timestamp) (contracts/Token.sol#806-817)
        Event emitted after the call(s):
        - Failed_AddLiquidityETH() (contracts/Token.sol#816)
Reentrancy in FatToken.transferFrom(address,address,uint256) (contracts/Token.sol#521-533):
        External calls:
        - _transfer(sender,recipient,amount) (contracts/Token.sol#526)
                - address(fundAddress).transfer(fundAmount) (contracts/Token.sol#802)
        External calls sending eth:
        - _transfer(sender,recipient,amount) (contracts/Token.sol#526)
                - address(fundAddress).transfer(fundAmount) (contracts/Token.sol#802)
                - _swapRouter.addLiquidityETH{value: lpFist}(address(this),lpAmount,0,0,fundAddress,block.timestamp) (contracts/Token.sol#806-817)
        State variables written after the call(s):
        - _allowances[sender][msg.sender] = _allowances[sender][msg.sender] - amount (contracts/Token.sol#528-530)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-4

Variable IPancakeRouter01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (contracts/Token.sol#190) is too similar to IPancakeRouter01.addLiquidity(
address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/Token.sol#191)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

BaseFatToken.deadAddress (contracts/Token.sol#293) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

BaseFatToken._mainPair (contracts/Token.sol#304) should be immutable
BaseFatToken._swapRouter (contracts/Token.sol#300) should be immutable
BaseFatToken.currency (contracts/Token.sol#271) should be immutable
BaseFatToken.currencyIsEth (contracts/Token.sol#261) should be immutable
BaseFatToken.decimals (contracts/Token.sol#290) should be immutable
BaseFatToken.enableKillBlock (contracts/Token.sol#264) should be immutable
BaseFatToken.enableOffTrade (contracts/Token.sol#263) should be immutable
BaseFatToken.enableRewardList (contracts/Token.sol#265) should be immutable
BaseFatToken.name (contracts/Token.sol#288) should be immutable
BaseFatToken.symbol (contracts/Token.sol#289) should be immutable
BaseFatToken.totalSupply (contracts/Token.sol#291) should be immutable
FatToken._tokenDistributor (contracts/Token.sol#426) should be immutable
FatToken.enableTransferFee (contracts/Token.sol#571) 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

1- Adding liquidity (passed):
https://testnet.bscscan.com/tx/0xbfe579e7c1c1c3862c2a70b245f7cef7541614f6407441c4a2ca360b32cec4f9

2- Buying when excluded from fees (0% tax) (passed):
https://testnet.bscscan.com/tx/0x12b87d7b9ba2fa039454a0b9419827bd980b25a498a1451543f485bdac35db5c

3- Selling when excluded from fees (0% tax) (passed):
https://testnet.bscscan.com/tx/0xe09322663d855123b89d09a90fd48561e58db5e430e5d3f84481840c1b8bbb78

4- Transferring when excluded from fees (0% tax) (passed):
https://testnet.bscscan.com/tx/0xdf08154767c624903a08385bc5953188a96bcb6dc114590b11e522a3ed29e202

5- Buying when not excluded from fees (10% tax) (passed):
https://testnet.bscscan.com/tx/0xdc6ce867240e134de031899fe477681b5f6bee8270f2739767579b63f7c3614b

6- Selling when not excluded from fees (10% tax) (passed):
https://testnet.bscscan.com/tx/0x6fe056a2a14adc0703e60f28d3346c074365d929d6f142fa67f7e67c27655493

7- Transferring when not excluded from fees (up to 25% tax) (passed):
https://testnet.bscscan.com/tx/0x8ddf2524f37f7bb7438cc7e75ffef5e0095f4ff9391e61a4a2dd609876f037df

FUNCTIONAL TESTING

8- Internal swap (passed):
fee wallets received BNB
https://testnet.bscscan.com/address/0x9d54c86d4b34ef6a2dc6352235f4e0f67f501ecf#internaltx

9- Auto liquidity (passed):
Liquidity is added successfully and generated pool shares are sent to fund wallet
https://testnet.bscscan.com/token/0xc5f3a8c10e46c3e8db48d077fcee6ab599c59a9f?a=0x9d54c86d4b34ef6a2dc6352235f4e0f67f501ecf

10- Airdrop (passed):
up to 3 random wallets will receive 1 token for auto airdrop
https://testnet.bscscan.com/tx/0x6fe056a2a14adc0703e60f28d3346c074365d929d6f142fa67f7e67c27655493

MANUAL TESTING

Centralization – LP tokens sent to an EOA

Severity: Medium
Function: swapTokenForFund
Lines: 815
Status: Not Resolved
Overview:
fundAddress is receiving auto liquidity generated tokens. Overtime this tokens will be accumulated and can be used to delete a significant portion of liquidity potentially having a bad impact on token's liquidity and price

```
try
    _swapRouter.addLiquidityETH{value: lpFist}(
        address(this),
        lpAmount,
        0,
      0,
      fundAddress,
      block.timestamp
        )
{} catch {
      emit Failed_AddLiquidityETH();
}
```

Recommendation:
Introduce a minimum value safeguard for the max buy/sell/wallet amounts to prevent disabling trades. This can be achieved by setting a reasonable lower limit for both variables. For example:

MANUAL TESTING

```
try
      _swapRouter.addLiquidityETH{value: lpFist}(
          address(this),
          lpAmount,
          0,
        0,
        address(0),
        block.timestamp
          )
  {} catch {
        emit Failed_AddLiquidityETH();
  }
```

MANUAL TESTING

Gas usage – Redundant code

Severity: Infromational
Function: ---
Lines: ---
Status: Not Resolved
Overview:
most sections of the code (e.g. anti-bit, max buy/sell/wallet checks, etc) are disabled forever hence are condiered redundant code
Recommendation:
its suggested to delete this sectinos of the code from contract to reduce overall gas usage and contract size

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