auditace.tech

AuditAce

FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

Spare Inu

DATED : 5 May 23'

AUDIT SUMMARY

Project name – Spare Inu

Date: 5 May, 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	1	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/0xa92ff91743783591494f80d947cd47d73ae6ffed

Token Information

Token Name : Spare Inu

Token Symbol: Spare Inu

Decimals: 18

Token Supply: 1,000,000,000

Token Address:
0xd8E5E55838c6FD402464F5E085ea7a9659fa835D

Checksum:
36552580df187046a7c9f54d1f604aee2936f4e8

Owner:
0x3862f88396a0b50Db96B8beFF0d8A4B2Af3E5702
(at time of writing the audit)

Deployer:
0xf24539CfD9dFfBD40b78beEd25eDb40ad4b3306A

TOKEN OVERVIEW

Fees:

Buy Fees: up to 10%

Sell Fees: up to 10%

Transfer Fees: up to 10%

Fees Privilege: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: Yes

Blacklist: No

Other Privileges: updating fee - excluding from fees - including 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

- ✓ 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

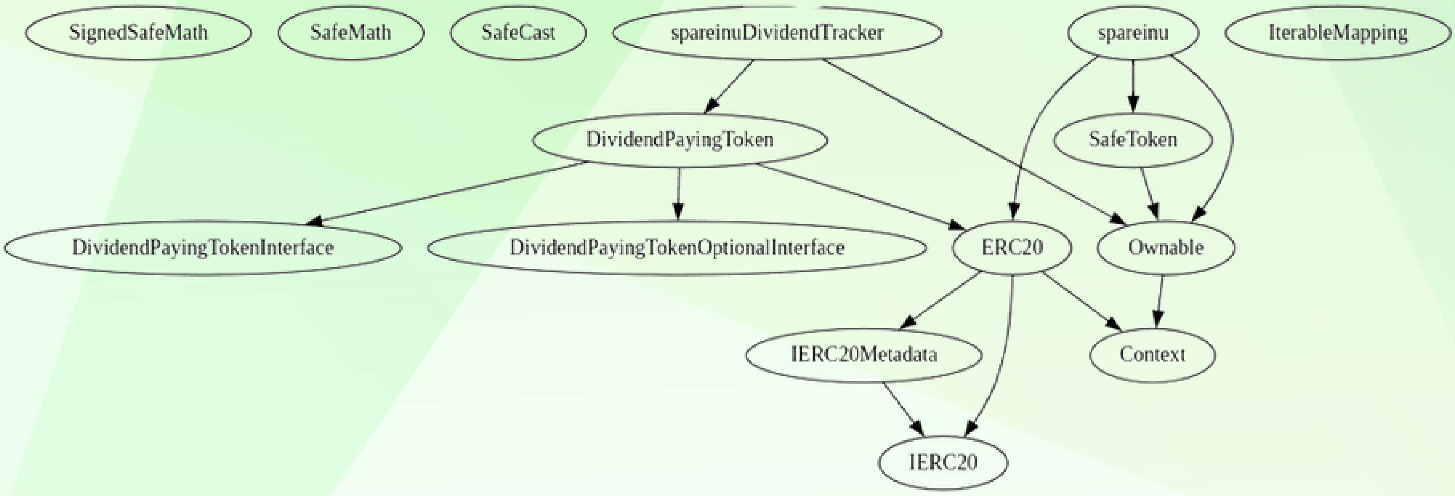
CLASSIFICATION OF RISK

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

INHERITANCE TREE



POINTS TO NOTE

- Owner is not able to set buy/sell/transfer taxes over 10%
- Owner is not able to set a max buy/transfer/wallet/sell 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**  |

| **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 ❗ |
||||||
| **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 ❗ |
||||||
| **SignedSafeMath** | Library |  |||
| └ | mul | Internal 🔒 |  | |
| └ | div | Internal 🔒 |  | |
| └ | sub | Internal 🔒 |  | |
| └ | add | Internal 🔒 |  | |
||||||
| **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 🔒 |  | |
||||||
| **SafeCast** | Library |  |||
| └ | toUint224 | Internal 🔒 |  | |
| └ | toUint128 | Internal 🔒 |  | |
| └ | toUint96 | Internal 🔒 |  | |
| └ | toUint64 | Internal 🔒 |  | |
| └ | toUint32 | Internal 🔒 |  | |
| └ | toUint16 | Internal 🔒 |  | |
| └ | toUint8 | Internal 🔒 |  | |
| └ | toUint256 | Internal 🔒 |  | |
| └ | toInt128 | Internal 🔒 |  | |
| └ | toInt64 | Internal 🔒 |  | |
| └ | toInt32 | Internal 🔒 |  | |
| └ | toInt16 | Internal 🔒 |  | |
| └ | toInt8 | Internal 🔒 |  | |
| └ | toInt256 | Internal 🔒 |  | |
||||||
| **Context** | Implementation |  |||
| └ | _msgSender | Internal 🔒 |  | |
| └ | _msgData | Internal 🔒 |  | |
||||||
| **IERC20** | Interface |  |||
| └ | totalSupply | External ❗️ |  |NO ❗️ |
| └ | balanceOf | External ❗️ |  |NO ❗️ |
```

CONTRACT ASSESMENT

```
| └ | transfer | External ❗️ | 🛑 |NO ❗️ |
| └ | allowance | External ❗️ | |NO ❗️ |
| └ | approve | External ❗️ | 🛑 |NO ❗️ |
| └ | transferFrom | External ❗️ | 🛑 |NO ❗️ |
||||||
| **IERC20Metadata** | Interface | IERC20 |||
| └ | name | External ❗️ | |NO ❗️ |
| └ | symbol | External ❗️ | |NO ❗️ |
| └ | decimals | External ❗️ | |NO ❗️ |
||||||
| **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 🔒 | 🛑 | |
| └ | _approve | Internal 🔒 | 🛑 | |
| └ | _beforeTokenTransfer | Internal 🔒 | 🛑 | |
| └ | _afterTokenTransfer | Internal 🔒 | 🛑 | |
||||||
| **Ownable** | Implementation | Context |||
| └ | <Constructor> | Public ❗️ | 🛑 |NO ❗️ |
| └ | owner | Public ❗️ | |NO ❗️ |
| └ | renounceOwnership | Public ❗️ | 🛑 | onlyOwner |
| └ | transferOwnership | Public ❗️ | 🛑 | onlyOwner |
| └ | _setOwner | Private 🔐 | 🛑 | |
||||||
| **IterableMapping** | Library | |||
| └ | get | Internal 🔒 | | |
| └ | getIndexOfKey | Internal 🔒 | | |
| └ | getKeyAtIndex | Internal 🔒 | | |
| └ | size | Internal 🔒 | | |
| └ | set | Internal 🔒 | 🛑 | |
| └ | remove | Internal 🔒 | 🛑  | |
||||||
| **DividendPayingTokenOptionalInterface** | Interface |  |||
| └ | withdrawableDividendOf | External ❗️ |   |NO ❗️ |
| └ | withdrawnDividendOf | External ❗️ |   |NO ❗️ |
| └ | accumulativeDividendOf | External ❗️ |   |NO ❗️ |
||||||
| **DividendPayingTokenInterface** | Interface |  |||
| └ | dividendOf | External ❗️ |   |NO ❗️ |
| └ | distributeDividends | External ❗️ |  💵 |NO ❗️ |
| └ | withdrawDividend | External ❗️ | 🛑  |NO ❗️ |
||||||
| **DividendPayingToken** | Implementation | ERC20, DividendPayingTokenInterface,
DividendPayingTokenOptionalInterface |||
| └ | <Constructor> | Public ❗️ | 🛑  | ERC20 |
| └ | <Receive Ether> | External ❗️ |  💵 |NO ❗️ |
| └ | distributeDividends | Public ❗️ |  💵 |NO ❗️ |
| └ | withdrawDividend | Public ❗️ | 🛑  |NO ❗️ |
| └ | _withdrawDividendOfUser | Internal 🔒 | 🛑  | |
| └ | dividendOf | Public ❗️ |   |NO ❗️ |
| └ | withdrawableDividendOf | Public ❗️ |   |NO ❗️ |
| └ | withdrawnDividendOf | Public ❗️ |   |NO ❗️ |
| └ | accumulativeDividendOf | Public ❗️ |   |NO ❗️ |
| └ | _transfer | Internal 🔒 | 🛑  | |
| └ | _mint | Internal 🔒 | 🛑  | |
| └ | _burn | Internal 🔒 | 🛑  | |
| └ | _setBalance | Internal 🔒 | 🛑  | |
||||||
| **spareinuDividendTracker** | Implementation | DividendPayingToken, Ownable |||
| └ | <Constructor> | Public ❗️ | 🛑  | DividendPayingToken |
| └ | _transfer | Internal 🔒 |   | |
| └ | withdrawDividend | Public ❗️ |   |NO ❗️ |
| └ | excludeFromDividends | External ❗️ | 🛑  | onlyOwner |
| └ | updateClaimWait | External ❗️ | 🛑  | onlyOwner |
| └ | getLastProcessedIndex | External ❗️ |   |NO ❗️ |
| └ | getNumberOfTokenHolders | External ❗️ |   |NO ❗️ |
| └ | getAccount | Public ❗️ |   |NO ❗️ |
| └ | getAccountAtIndex | Public ❗️ |   |NO ❗️ |
| └ | canAutoClaim | Private 🔐 |   | |
| └ | setBalance | External ❗️ | 🛑  | onlyOwner |
| └ | process | Public ❗️ | 🛑  |NO ❗️ |
| └ | processAccount | Public ❗️ | 🛑  | onlyOwner |
||||||
```

CONTRACT ASSESMENT

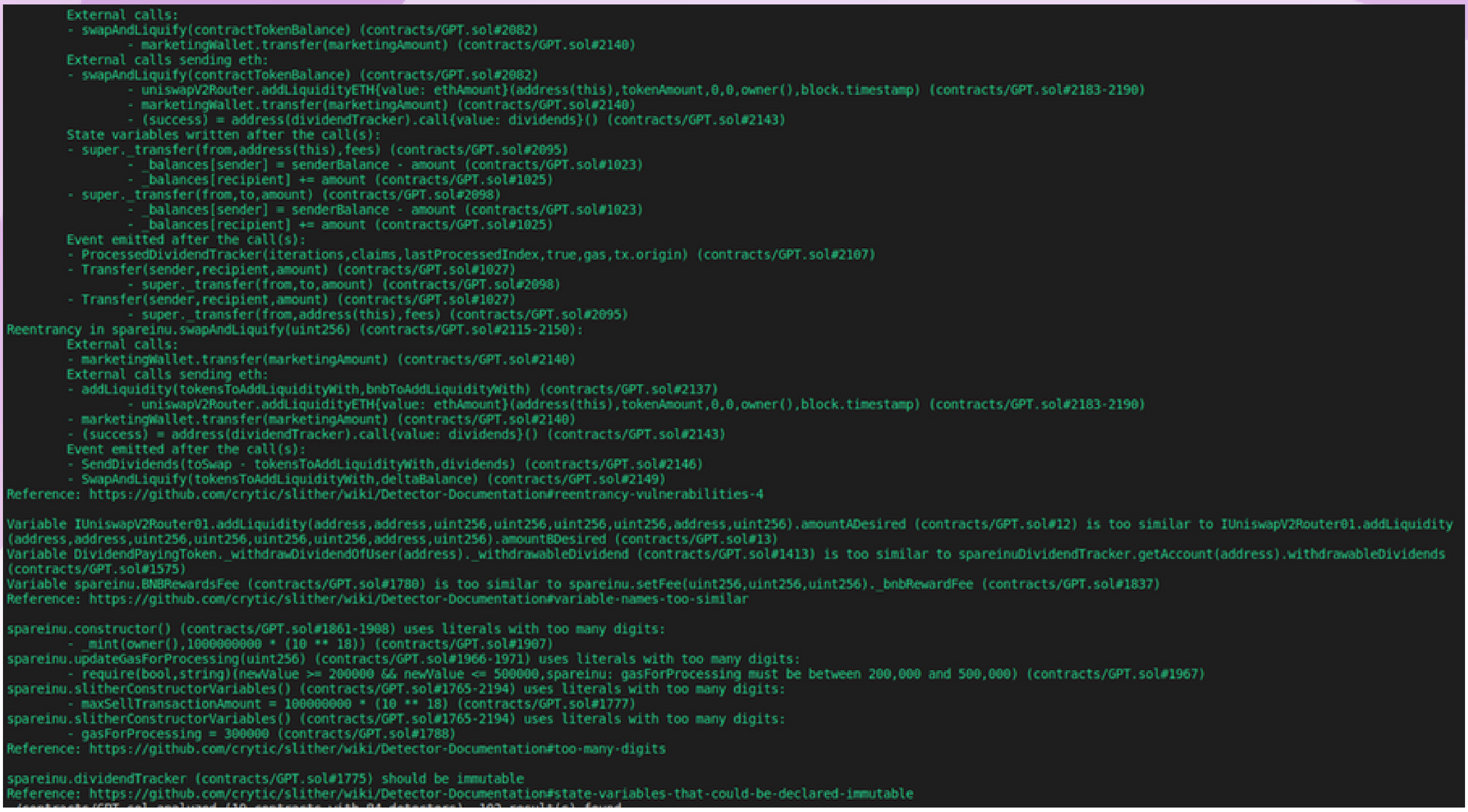
```
| **SafeToken** | Implementation | Ownable |||
| └ | <Constructor> | Public ❗ | 🛑 |NO ❗ |
| └ | setSafeManager | Public ❗ | 🛑 | onlyOwner |
| └ | withdraw | External ❗ | 🛑 |NO ❗ |
| └ | withdrawBNB | External ❗ | 🛑 |NO ❗ |
||||||
| **spareinu** | Implementation | ERC20, Ownable, SafeToken |||
| └ | setFee | Public ❗ | 🛑 | onlyOwner |
| └ | setExtraFeeOnSell | Public ❗ | 🛑 | onlyOwner |
| └ | setMarketingWallet | Public ❗ | 🛑 | onlyOwner |
| └ | <Constructor> | Public ❗ | 🛑 | ERC20 |
| └ | <Receive Ether> | External ❗ | 💵 |NO ❗ |
| └ | excludeFromFees | Public ❗ | 🛑 | onlyOwner |
| └ | setExcludeFromMaxTx | Public ❗ | 🛑 | onlyOwner |
| └ | setExcludeFromAll | Public ❗ | 🛑 | onlyOwner |
| └ | excludeMultipleAccountsFromFees | Public ❗ | 🛑 | onlyOwner |
| └ | setAutomatedMarketMakerPair | Public ❗ | 🛑 | onlyOwner |
| └ | setSWapTokensAtAmount | Public ❗ | 🛑 | onlyOwner |
| └ | _setAutomatedMarketMakerPair | Private 🔐 | 🛑 | |
| └ | updateGasForProcessing | Public ❗ | 🛑 | onlyOwner |
| └ | updateClaimWait | External ❗ | 🛑 | onlyOwner |
| └ | getClaimWait | External ❗ |   |NO ❗ |
| └ | getTotalDividendsDistributed | External ❗ |   |NO ❗ |
| └ | isExcludedFromFees | Public ❗ |   |NO ❗ |
| └ | isExcludedFromMaxTx | Public ❗ |   |NO ❗ |
| └ | withdrawableDividendOf | Public ❗ |   |NO ❗ |
| └ | dividendTokenBalanceOf | Public ❗ |   |NO ❗ |
| └ | getAccountDividendsInfo | External ❗ |   |NO ❗ |
| └ | getAccountDividendsInfoAtIndex | External ❗ |   |NO ❗ |
| └ | processDividendTracker | External ❗ | 🛑 |NO ❗ |
| └ | claim | External ❗ | 🛑 |NO ❗ |
| └ | getLastProcessedIndex | External ❗ |   |NO ❗ |
| └ | getNumberOfDividendTokenHolders | External ❗ |   |NO ❗ |
| └ | excludeFromDividends | External ❗ | 🛑 | onlyOwner |
| └ | setSwapAndLiquifyEnabled | Public ❗ | 🛑 | onlyOwner |
| └ | _transfer | Internal 🔒 | 🛑 | |
| └ | swapAndLiquify | Private 🔐 | 🛑 | lockTheSwap |
| └ | swapTokensForBnb | Private 🔐 | 🛑 | |
| └ | swapAndSendBNBToMarketing | Private 🔐 | 🛑 | |
| └ | addLiquidity | Private 🔐 | 🛑 | |
```

CONTRACT ASSESMENT

Legend

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

STATIC ANALYSIS



```
        External calls:
        - swapAndLiquify(contractTokenBalance) (contracts/GPT.sol#2082)
                - marketingWallet.transfer(marketingAmount) (contracts/GPT.sol#2140)
        External calls sending eth:
        - swapAndLiquify(contractTokenBalance) (contracts/GPT.sol#2082)
                - uniswapV2Router.addLiquidityETH{value: ethAmount}(address(this),tokenAmount,0,0,owner(),block.timestamp) (contracts/GPT.sol#2183-2190)
                - marketingWallet.transfer(marketingAmount) (contracts/GPT.sol#2140)
                - (success) = address(dividendTracker).call{value: dividends}() (contracts/GPT.sol#2143)
        State variables written after the call(s):
        - super._transfer(from,address(this),fees) (contracts/GPT.sol#2095)
                - _balances[sender] = senderBalance - amount (contracts/GPT.sol#1023)
                - _balances[recipient] += amount (contracts/GPT.sol#1025)
        - super._transfer(from,to,amount) (contracts/GPT.sol#2098)
                - _balances[sender] = senderBalance - amount (contracts/GPT.sol#1023)
                - _balances[recipient] += amount (contracts/GPT.sol#1025)
        Event emitted after the call(s):
        - ProcessedDividendTracker(iterations,claims,lastProcessedIndex,true,gas,tx.origin) (contracts/GPT.sol#2107)
        - Transfer(sender,recipient,amount) (contracts/GPT.sol#1027)
                - super._transfer(from,to,amount) (contracts/GPT.sol#2098)
        - Transfer(sender,recipient,amount) (contracts/GPT.sol#1027)
                - super._transfer(from,address(this),fees) (contracts/GPT.sol#2095)
Reentrancy in spareinu.swapAndLiquify(uint256) (contracts/GPT.sol#2115-2150):
        External calls:
        - marketingWallet.transfer(marketingAmount) (contracts/GPT.sol#2140)
        External calls sending eth:
        - addLiquidity(tokensToAddLiquidityWith,bnbToAddLiquidityWith) (contracts/GPT.sol#2137)
                - uniswapV2Router.addLiquidityETH{value: ethAmount}(address(this),tokenAmount,0,0,owner(),block.timestamp) (contracts/GPT.sol#2183-2190)
        - marketingWallet.transfer(marketingAmount) (contracts/GPT.sol#2140)
        - (success) = address(dividendTracker).call{value: dividends}() (contracts/GPT.sol#2143)
        Event emitted after the call(s):
        - SendDividends(toSwap - tokensToAddLiquidityWith,dividends) (contracts/GPT.sol#2146)
        - SwapAndLiquify(tokensToAddLiquidityWith,deltaBalance) (contracts/GPT.sol#2149)
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/GPT.sol#12) is too similar to IUniswapV2Router01.addLiquidity
(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/GPT.sol#13)
Variable DividendPayingToken._withdrawDividendOfUser(address)._withdrawableDividend (contracts/GPT.sol#1413) is too similar to spareinuDividendTracker.getAccount(address).withdrawableDividends
(contracts/GPT.sol#1575)
Variable spareinu.BNBRewardsFee (contracts/GPT.sol#1780) is too similar to spareinu.setFee(uint256,uint256,uint256)._bnbRewardFee (contracts/GPT.sol#1837)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

spareinu.constructor() (contracts/GPT.sol#1861-1908) uses literals with too many digits:
        - _mint(owner(),1000000000 * (10 ** 18)) (contracts/GPT.sol#1907)
spareinu.updateGasForProcessing(uint256) (contracts/GPT.sol#1966-1971) uses literals with too many digits:
        - require(bool,string)(newValue >= 200000 && newValue <= 500000,spareinu: gasForProcessing must be between 200,000 and 500,000) (contracts/GPT.sol#1967)
spareinu.slitherConstructorVariables() (contracts/GPT.sol#1765-2194) uses literals with too many digits:
        - maxSellTransactionAmount = 100000000 * (10 ** 18) (contracts/GPT.sol#1777)
spareinu.slitherConstructorVariables() (contracts/GPT.sol#1765-2194) uses literals with too many digits:
        - gasForProcessing = 300000 (contracts/GPT.sol#1788)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits

spareinu.dividendTracker (contracts/GPT.sol#1775) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
 (contracts/GPT.sol analyzed (10 contracts with 84 detectors), 103 result(s) found
```

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

No major issues were found in the output

FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

All the functionalities have been tested, no issues were found

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

https://testnet.bscscan.com/tx/0x84a76510bfa1dde78153ccf80b8feea41e747883c7e095a3035e9a9863ffb6f1

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

https://testnet.bscscan.com/tx/0x6363a1fda181b235d8aa8fb67f4a0a871134d7b83c968ab01b881407962ff3c0

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

https://testnet.bscscan.com/tx/0x9c7f915d14e26c6c17ff21834e5a406d747b45a3149f5519c84432b2e9deb7e9

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

https://testnet.bscscan.com/tx/0xad192abd79112daa9e14c05323eabdbc320731d53e47bbf987ebeca7f15550a8

5- Buying when not excluded from fees (up to 10% tax) **(passed):**

https://testnet.bscscan.com/tx/0x934fbc7e0f162818ac902c9a1eb2c3ffa00505acf3966a36f21476149329eb3f

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

https://testnet.bscscan.com/tx/0xf13cdd3bb8abcf431dcd0025309e611fe96e2782e5569d2d85024e7f6495676a

FUNCTIONAL TESTING

7- Transferring when not excluded from fees (up to 10% tax)(passed):

https://testnet.bscscan.com/tx/0x9c4f1d351f7dce24fedad425a66c36b91fdbf470b4f25eb37972f38aae198939

8- Internal swap (passed):

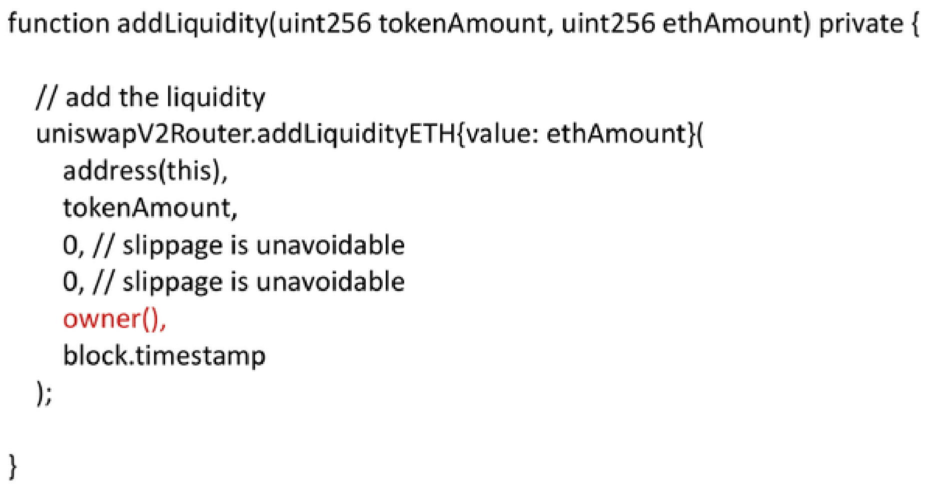
Auto-liquidty & Reflections & fee wallets receiving BNB

https://testnet.bscscan.com/tx/0xf13cdd3bb8abcf431dcd0025309e611fe96e2782e5569d2d85024e7f6495676a

MANUAL TESTING

Centralization – LP tokens sent to an EOA

Severity: Medium
Function: addLiquidity
Status: Not Resolved
Overview:
The contract owner's wallet (an EOA or Externally Owned Account) receives auto-generated liquidity pool share tokens. Over time, these tokens will accumulate and could potentially be used to remove a significant portion of liquidity, negatively impacting the token's liquidity and price.



```
function addLiquidity(uint256 tokenAmount, uint256 ethAmount) private {

    // add the liquidity
    uniswapV2Router.addLiquidityETH{value: ethAmount}(
        address(this),
        tokenAmount,
        0, // slippage is unavoidable
        0, // slippage is unavoidable
        owner(),
        block.timestamp
    );

}
```

Recommendation:
To mitigate this issue, consider the following options:

- Burn new LP tokens.
- Lock new LP tokens.
- Renounce ownership of the contract, which would result in LP tokens being burned automatically.

MANUAL TESTING

Logical – 0 Swapthreshold can disable some sells and transfers or increase slippage if is set to a high value

Severity: Low
Function: setSWapTokensAtAmount - swapAndLiquify
Lines: 2188
Status: Not Resolved
Overview:
Setting the **swapTokensAtAmount** to 0 can disable some sell/transfer operations if the contract's token balance is 0. This is because swapAndLiquify does not check whether the contract token balance is greater than 0 and attempts to swap 0 tokens for BNB. Additionally, setting the swap threshold to a very high value can increase slippage on sell/transfer operations, potentially exposing traders' tokens to front-runner bots.

```
function setSWapTokensAtAmount(uint256 _newAmount) public onlyOwner {
    swapTokensAtAmount = _newAmount;
}
```

Recommendation:
there are several ways to mitigate this issue

- Ensure that the new swap threshold cannot be set to an unreasonably low or high value.
- Renounce ownership of the contract, which would prevent the swap threshold from being changed arbitrarily.

DISCLAIMER

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