





Project: Cristomonedas

Website: https://cristomonedas.com/en/

BlockSAFU Score:

45

Contract Address:

0xe748d5C3A572f14D07D4a16E0ef38A96ff891156

DISCLAMER

BlockSAFU has completed this report to provide a summary of the Smart Contract functions, and any security, dependency, or cybersecurity vulnerabilities. This is often a constrained report on our discoveries based on our investigation and understanding of the current programming versions as of this report's date. To understand the full scope of our analysis, it is vital for you to at the date of this report. To understand the full scope of our analysis, you need to review the complete report. Although we have done our best in conducting our investigation and creating this report, it is vital to note that you should not depend on this report and cannot make any claim against BlockSAFU or its Subsidiaries and Team members on the premise of what has or has not been included in the report. Please remember to conduct your independent examinations before making any investment choices. We do not provide investment advice or in any way claim to determine if the project will be successful or not.

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ABOUT THE AUDITOR:

BlockSAFU (BSAFU) is an Anti-Scam Token Utility that reviews Smart Contracts and Token information to Identify Rug Pull and Honey Pot scamming activity. BlockSAFUs Development Team consists of several Smart Contract creators, Auditors Developers, and Blockchain experts. BlockSAFU provides solutions, prevents, and hunts down scammers. BSAFU is a utility token with features Audit, KYC, Token Generators, and Bounty Scammers. It will enrich the crypto ecosystem.



OVERVIEW

Mint Function

- No mint functions.

Fees

- Buy 11% (owner can't set fees over 25%).
- Sell 11% (owner can't set fees over 25%).

Tx Amount

- The owner can set Max Tx Amount without limit

Transfer Pausable

- The owner can pause the contract.

Blacklist

- Owner can set blacklist address

Ownership

- Owner cannot take back ownership.

Proxy

- This contract has no proxy.

Anti Whale

- The owner can set Max wallet Hold without limit

Trading Calmdown

- Owner can set calmdown trading without no limit time

SMART CONTRACT REVIEW

Token Name	CRISTOMONEDAS
Token Symbol	CSM
Token Decimal	6
Total Supply	7,000,000 CSM
Contract Address	0xe748d5C3A572f14D07D4a16E0ef38A96ff891156
Deployer Address	0xeB920D80799bbAFe08e2881AB8BB87C865e450Fc
Owner Address	0x705Efc578d6B19fEb91EB826a6BFDB7985e17B37
Tax Fees Buy	6%
Tax Fees Sell	6%
Gas Used for Buy	will be update after token listing on dex
Gas Used for Sell	will be update after token listing on dex
Contract Created	Sep-22-2022 08:20:40 AM +UTC
Initial Liquidity	will be update after token listing on dex
Liquidity Status	Locked
Unlocked Date	will be update after token listing on dex
Verified CA	Yes
Compiler	v0.8.16+commit.07a7930e
Optimization	Yes with 200 runs
Sol License	MIT License
Other	default evmVersion

TAX

BUY	6%	address	SELL	6%
BNB Fee	2%	For Marketing	BNB Fee	2%
Burn Fee	2%	For Burn	Burn fee	2%
Contract Fee	0%	0xde491C65E507d281B6a3688d11e8fC222 eee0975	Contract Fee	0%
Liquidity fee	1%	automatic add lineidity	Liquidity Fee	1%
Reflection fee	0%	For Reflection	Reflection Fee	0%

Token fee	1%	0xbad39e4a73cb1bef6a669467e81954ffbfc	Token fee	1&
		70c5b		

Token Holder

Rank	Address	Quantity	Percentage	Analytics
1	0x705efc578d6b19feb31eb826a6bfdb7985e17b37	7,000,000	100.0000%	<u>~</u>
				[Download CSV Export &]

Team Review

The CSM team has a nice website, their website is professionally built and the Smart contract is well developed

Official Website And Social Media

Website: https://cristomonedas.com/en/

Facebook:

https://www.facebook.com/Cristomonedas-103325522545623



MANUAL CODE REVIEW

Minor-risk

1 minor-risk code issue found

Could be fixed, and will not bring problems.

1. The return value of an external transfer/transferFrom return value is checked. Recommendation: use SafeERC20, or ensure that the transfer/transferFrom return value is checked

```
function transferFrom(
    address sender,
    address recipient,
    uint256 amount
) external returns (bool);
```

Medium-risk

2 medium-risk code issues found Should be fixed, could bring problems.

1. Owner can set calm down trading without no limit time

Risk scenario: owner can set 100 years or more.

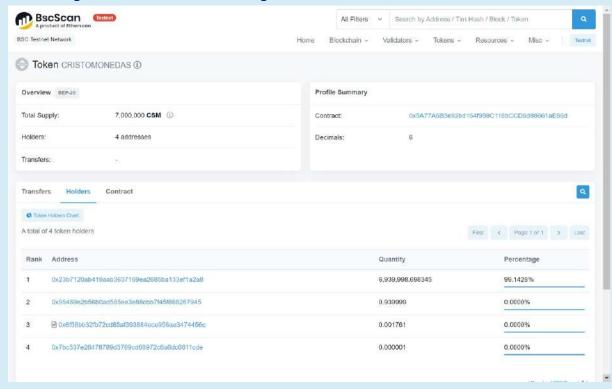
Recommendation: remove this function or set limit

```
Launch_Length = Launch_Phase_Length_Minutes * 60;
}
```

2. Code has math error

Risk scenario: holder calculation has a mathematical error. The total written supply is 7,000,000 while the sum of the total holders is 6,999,999.94

Recommendation: in the calculation precede multiplication before division and use the denominator to make calculations more accurate. not too bad of an issue considering the math error is decreasing.



High-Risk

3 high-risk code issues found

Must be fixed, and will bring problems.

1. Owner can set blacklist address

Risk scenario: owner can blacklist you, and you cannot sell your assets.

Recommendation: remove this function

2. Owner can sell before starting trading.

Risk scenario: owner can sell all developer unlock tokens before the transaction starts.

Recommendation: remove this function or set everyone can't sell including the owner.

```
function Launch_Settings_03__OpenTrade() external onlyOwner {
    // Can only use once!
    require(!TradeOpen, "E09");
    TradeOpen = true;
    swapAndLiquifyEnabled = true;
    LaunchPhase = true;
    LaunchTime = block.timestamp;
    emit updated_trade_Open(TradeOpen);
    emit
```

```
updated_SwapAndLiquify_Enabled(swapAndLiquifyEnabled);

    // Set the contract fee if required
    Fee_Buy_Contract = ContractFee;
    Fee_Sell_Contract = ContractFee;
    SwapFeeTotal_Buy = _FeeBuy_Liquidity + _FeeBuy_BNB +
    _Fee_Buy_Contract;
        SwapFeeTotal_Sell = _FeeSell_Liquidity + _FeeSell_BNB +
    _Fee_Sell_Contract;

    emit set_Contract_Fee(FeeBuy_Contract,
    _Fee_Sell_Contract);
    }
}
```

3. Owner can set Max tx Amount without no limit

Risk scenario: owner can set 0 (zero) Tokens. This will cause a honeypot.

Recommendation: remove this function or set limit more than 0.1% total supply

```
function Contract_SetUp_03__Wallet_Limits(
    uint256 Max_Tokens_Per_Transaction,
    uint256 Max_Total_Tokens_Per_Wallet
    ) external onlyOwner {
        // Buyer protection - Limits must be set to greater than
0.1% of total supply
        require(Max_Tokens_Per_Transaction >= _tTotal / 1000 /
10**_decimals, "E04");
        require(Max_Total_Tokens_Per_Wallet >= _tTotal / 1000 /
10**_decimals, "E05");

    max_Tran = Max_Tokens_Per_Transaction * 10**_decimals;
    max_Hold = Max_Total_Tokens_Per_Wallet * 10**_decimals;
    emit updated_Wallet_Limits(max_Tran, max_Hold);
}
```

Critical-Risk0 critical-risk code issues foundMust be fixed, and will bring problems.

EXTRA NOTES SMART CONTRACT

1. IERC20

```
interface IERC20 {
   * @dev Returns the number of tokens in existence.
 function totalSupply() external view returns (uint256);
 function balanceOf(address account) external view returns (uint256);
  function transfer(address recipient, uint256 amount) external returns (bool);
 function allowance (address owner, address spender) external view returns (uint256);
 function approve(address spender, uint256 amount) external returns (bool);
 function transferFrom(
    address sender,
    address recipient,
    uint256 amount
  ) external returns (bool);
  * @dev Emitted when `value` tokens are moved from one account (`from`) to
  * another (`to`).
  * Note that `value` may be zero.
  event Transfer(address indexed from, address indexed to, uint256 value);
}
```

IERC20 Normal Base Template

2. SafeMath Contract

```
library SafeMath {
    function add(uint256 a, uint256 b) internal pure returns
(uint256) {
        uint256 c = a + b;
        require(c >= a, "SafeMath: addition overflow");
        return c;
    }
. . .
    function sub(uint256 a, uint256 b, string memory errorMessage)
internal pure returns (uint256) {
        require(b <= a, errorMessage);</pre>
        uint256 c = a - b;
        return c;
    }
     * @dev Returns the multiplication of two unsigned integers,
reverting on
     * overflow.
     * Counterpart to Solidity's `*` operator.
     * Requirements:
     * - Multiplication cannot overflow.
    function mod(
        uint256 a,
        uint256 b,
        string memory errorMessage
    ) internal pure returns (uint256) {
        unchecked {
            require(b > 0, errorMessage);
            return a % b;
        }
    }
}
```

Standard Safemath contract

3. CSM Contract

```
contract Contract is Context, IERC20 {
    using SafeMath for uint256;
    using Address for address;
    // Contract Wallets
    address private _owner;
                                                        //
Contract Owner
    address public Wallet Liquidity;
                                                        // LP
Token Collection Wallet for Auto LP
    address public Wallet Tokens;
                                                        // Token
Fee Collection Wallet
    address payable public Wallet BNB;
                                                        // BNB Fee
Collection Wallet
    address payable public Wallet_TBG_AFF;
                                                        //
TokensByGEN Affiliate Wallet and Discount Code
    // Contract fee (1% ongoing if applicable) is sent to fee
collection contract
    address payable public constant feeCollector =
payable(0xde491C65E507d281B6a3688d11e8fC222eee0975);
    // Token Info
    string private _name;
    string private _symbol;
    uint256 private _decimals;
    uint256 private _tTotal;
    // Token social links will appear on BSCScan
    string private Website;
    string private Telegram;
    string private _LP_Locker_URL;
    // Wallet and transaction limits
    uint256 private max Hold;
    uint256 private max_Tran;
    // Fees - Set fees before opening trade
    uint256 public Fee Buy Burn;
```

```
uint256 public _Fee__Buy_Contract;
    uint256 public _Fee__Buy_Liquidity;
    uint256 public Fee Buy BNB;
    uint256 public _Fee__Buy_Reflection;
    uint256 public Fee Buy Tokens;
    uint256 public Fee Sell Burn;
    uint256 public _Fee__Sell_Contract;
    uint256 public Fee Sell Liquidity;
   uint256 public _Fee__Sell_BNB;
    uint256 public Fee Sell Reflection;
    uint256 public _Fee__Sell_Tokens;
    // Upper limit for fee processing trigger
    uint256 private swap_Max;
    // Total fees that are processed on buys and sells for swap
and liquify calculations
    uint256 private _SwapFeeTotal_Buy;
    uint256 private SwapFeeTotal Sell;
    // Track contract fee
    uint256 private ContractFee;
    // Supply Tracking for RFI
    uint256 private _rTotal;
    uint256 private _tFeeTotal;
    uint256 private constant MAX = ~uint256(0);
    // Launch Phase Settings
    uint256 private max Tran Launch;
    uint256 private Launch Buy Delay;
    uint256 private Launch_Length;
    // Affiliate Tracking
    IERC20 GEN =
IERC20(0x7d7a7f452e04C2a5df792645e8bfaF529aDcCEcf); // GEN - For
tracking affiliate level
    IERC20 AFT =
IERC20(0x98A70E83A53544368D72940467b8bB05267632f4); // TokensByGEN
Affiliate Tracker Token
```

```
uint256 private constant Tier 2 = 500000 * 10**9;
   uint256 private constant Tier 3 = 1000000 * 10**9;
   // Set factory
   IUniswapV2Router02 public uniswapV2Router;
   address public uniswapV2Pair;
                                 _TokenName,
   constructor (string memory
                string memory
                                  TokenSymbol,
                uint256
                                  _TotalSupply,
                uint256
                                  _Decimals,
                                 _OwnerWallet,
                address payable
                address payable
                                  _DiscountCode,
                uint256
                                  ContractFee) {
   // Set owner
                      = _OwnerWallet;
   owner
   // Set basic token details
   name
                      = TokenName;
                      = TokenSymbol;
   symbol
   decimals
                     = Decimals;
   tTotal
                      = _TotalSupply * 10**_decimals;
                      = (MAX - (MAX % _tTotal));
   rTotal
   // Wallet limits - Set limits after deploying
                       = _tTotal;
   max Hold
                       = tTotal;
   max Tran
   // Contract sell limit when processing fees
   swap_Max
                      = _tTotal / 200;
   // Launch Phase control
   max_Tran_Launch = _tTotal;
   Launch_Buy_Delay = 0;
   Launch_Length
                      = 5 * 60;
   // Set BNB, tokens, and liquidity collection wallets to owner
(can be updated later)
   Wallet BNB
                       = payable(_OwnerWallet);
```

```
Wallet_Liquidity = _OwnerWallet;
   Wallet_Tokens
                      = OwnerWallet;
   // Set contract fee
   ContractFee = _ContractFee;
   // Transfer token supply to owner wallet
   _rOwned[_owner] = _rTotal;
   // Set TokensByGEN affiliate from Discount Code
   Wallet TBG AFF = payable( DiscountCode);
   // Set PancakeSwap Router Address
   IUniswapV2Router02 uniswapV2Router =
IUniswapV2Router02(0x10ED43C718714eb63d5aA57B78B54704E256024E);
   // Create initial liquidity pair with BNB on PancakeSwap
factory
   uniswapV2Pair =
IUniswapV2Factory( uniswapV2Router.factory()).createPair(address(t
his), _uniswapV2Router.WETH());
   uniswapV2Router = uniswapV2Router;
   // Wallets that are excluded from holding limits
   isLimitExempt[ owner] = true;
   isLimitExempt[address(this)] = true;
   _isLimitExempt[Wallet_Burn] = true;
   isLimitExempt[uniswapV2Pair] = true;
   isLimitExempt[Wallet Tokens] = true;
   // Wallets that are excluded from fees
   isExcludedFromFee[ owner] = true;
   isExcludedFromFee[address(this)] = true;
   isExcludedFromFee[Wallet Burn] = true;
   // Set the initial liquidity pair
   isPair[uniswapV2Pair] = true;
   // Exclude from Rewards
   isExcluded[Wallet Burn] = true;
   isExcluded[uniswapV2Pair] = true;
    isExcluded[address(this)] = true;
```

```
// Push excluded wallets to array
    excluded.push(Wallet Burn);
    excluded.push(uniswapV2Pair);
    excluded.push(address(this));
    // Wallets granted access before trade is open
    _isWhiteListed[_owner] = true;
    // Emit Supply Transfer to Owner
    emit Transfer(address(0), owner, tTotal);
    // Emit ownership transfer
    emit OwnershipTransferred(address(0), _owner);
    }
    // Events
    event OwnershipTransferred(address indexed previousOwner,
address indexed newOwner);
    event updated_Wallet_Limits(uint256 max Tran, uint256
max Hold);
    event updated Buy fees(uint256 Marketing, uint256 Liquidity,
uint256 Reflection, uint256 Burn, uint256 Tokens, uint256
Contract Development Fee);
    event updated Sell fees(uint256 Marketing, uint256 Liquidity,
uint256 Reflection, uint256 Burn, uint256 Tokens, uint256
Contract Development Fee);
    event updated SwapAndLiquify Enabled(bool
Swap and Liquify Enabled);
    event updated trade Open(bool TradeOpen);
    event SwapAndLiquify(uint256 tokensSwapped, uint256
ethReceived, uint256 tokensIntoLiqudity);
    event set Contract Fee(uint256 Contract Development Buy Fee,
uint256 Contract Development Sell Fee);
    // Restrict function to contract owner only
    modifier onlyOwner() {
        require(owner() == _msgSender(), "Ownable: caller is not
the owner");
```

```
_;
    // Address mappings
    mapping (address => uint256) private _tOwned;
// Tokens Owned
    mapping (address => uint256) private _rOwned;
// Reflected balance
    mapping (address => uint256) private _Last_Buy;
// Timestamp of previous transaction
    mapping (address => mapping (address => uint256)) private
_allowances; // Allowance to spend another wallets tokens
    mapping (address => bool) public isExcludedFromFee;
// Wallets that do not pay fees
    mapping (address => bool) public isExcluded;
// Excluded from RFI rewards
    mapping (address => bool) public isWhiteListed;
// Wallets that have access before trade is open
    mapping (address => bool) public isLimitExempt;
// Wallets that are excluded from HOLD and TRANSFER limits
    mapping (address => bool) public isPair;
// Address is liquidity pair
    mapping (address => bool) public isSnipe;
// Sniper!
    mapping (address => bool) public _isBlacklisted;
// Blacklist wallet - can only be added pre-launch!
    address[] private excluded;
// Array of wallets excluded from rewards
    // Token information
    function Token_Information() external view returns(string
memory Token Name,
                                                       string
memory Token Symbol,
                                                       uint256
Number_of_Decimals,
                                                       address
Owner Wallet,
                                                       uint256
Transaction Limit,
```

```
uint256
Max_Wallet,
                                                       uint256
Fee_When_Buying,
                                                       uint256
Fee_When_Selling,
                                                       string
memory Website,
                                                       string
memory Telegram,
                                                       string
memory Liquidity_Lock_URL,
                                                       string
memory Contract Created By) {
        string memory Creator = "https://tokensbygen.com/";
        uint256 Total_buy = _Fee__Buy_Burn
                             Fee Buy Contract
                             _Fee__Buy_Liquidity
                                                  +
                             _Fee__Buy_BNB
                             _Fee__Buy_Reflection
                             _Fee__Buy_Tokens
                                                    ;
        uint256 Total_sell = _Fee__Sell_Burn
                                                    +
                             _Fee__Sell_Contract
                             _Fee__Sell_Liquidity +
                             _Fee__Sell_BNB
                             _Fee__Sell_Reflection +
                             Fee Sell Tokens
                                                   ;
        uint256 TranLimit = max Tran / 10 ** decimals;
            if (LaunchPhase && (max_Tran_Launch < max_Tran)){</pre>
                TranLimit = max_Tran_Launch / 10 ** _decimals;
            }
       // Return Token Data
```

```
return (_name,
               _symbol,
               decimals,
               _owner,
               TranLimit,
               max_Hold / 10 ** _decimals,
               Total buy,
               Total sell,
               Website,
               _Telegram,
               LP Locker URL,
               Creator);
   }
   // Burn (dead) address
   address public constant Wallet Burn =
// Swap triggers
   uint256 private swapTrigger = 11;
   uint256 private swapCounter = 1;
   // SwapAndLiquify - Automatically processing fees and adding
Liquidity
   bool public inSwapAndLiquify;
   bool public swapAndLiquifyEnabled;
   // Launch settings
   bool public TradeOpen;
   bool private LaunchPhase;
   uint256 private LaunchTime;
   // No fee on wallet-to-wallet transfers
   bool noFeeW2W = true;
   // Deflationary Burn - Tokens Sent to Burn are removed from
total supply if set to true
   bool public deflationaryBurn;
   // Take fee tracker
```

bool private takeFee; /* CONTRACT SET UP AND DEPLOYMENT GUIDE */ /* DECIDE IF BURN WALLET WILL BE DEFLATIONARY

By default this is set to false

If you change this to true, when tokens are sent to the burn wallet

from the senders balance and removed from the total supply.

When this is set to false, any tokens sent to the burn wallet will not

be removed from total supply and will be added to the burn wallet balance.

This is the default action on most contracts.

A truly deflationary burn can be confusing to some token tools and

listing platforms, so only set this to true if you understand the implications.

A deflationary burn will not instantly increase the value of other tokens, but it will help with token stability over time. */ function Contract Options 01 Deflationary Burn(bool true_or_false) external onlyOwner { deflationaryBurn = true or false; } /* DECIDE IF WALLET TO WALLET TRANSFERS WILL BE FREE FROM FEES Default = true Having no fee on wallet-to-wallet transfers means that people can move tokens between wallets. or send them to friends etc without incurring a fee. This feature may be required if you plan to use your token in place of fiat as a form of payment. However, in order for it to work, we must inform the contract of all liquidity pairs. So if you (or anybody else) ever adds a new liquidity pair, you need to enter the address of the pair into the "Maintenance 02 Add Liquidity Pair" function. If you plan to renounce your contract, you will lose access to all functions. Which presents a possible exploit where people can create a liquidity pair for your token and use it to buy and sell without a fee.

For this reason, you can not renounce the contract and have

no-fee on wallet-to-wallet transfers. Decide which is better for your project. No fees when moving tokens between wallets, or renouncing ownership. Having both is not an option! */ function Contract_Options_02__No_Fee_Wallet_Transfers(bool true or false) public onlyOwner { noFeeW2W = true_or_false; } /* SET CONTRACT BUY AND SELL FEES To protect investors, buy and sell fees have a hard-coded limit of 20% If the contract development fee was set to 1% of transactions, this is included in the limit. How Fees Work

Burn, Token, and Reflection fees are processed immediately during the transaction.

BNB and Liquidity fees are collected in tokens then added to the contract.

These fees accumulate (as tokens) on the contract until they are processed.

When fees are processed, the contract sells the accumulated tokens for BNB

```
(This shows as a sell on the chart).
    This process can only happen when a holder sells tokens.
    So when fees are processed, you will see 2 sells on the chart
in the same
    second, the holders sell, and the contract sell.
    This process is triggered automatically on the next sell after
10 transactions.
    */
    // Set Buy Fees
    function Contract_SetUp_01__Fees_on_Buy(
        uint256 BNB_on_BUY,
        uint256 Liquidity on BUY,
        uint256 Reflection_on_BUY,
        uint256 Burn on BUY,
        uint256 Tokens on BUY
        ) external onlyOwner {
        _Fee__Buy_Contract = ContractFee;
       // Buyer protection: max fee can not be set over 20%
(including the 1% contract fee if applicable)
        require (BNB_on_BUY
                 Liquidity on BUY
                 Reflection_on_BUY
                 Burn on BUY
                 Tokens on BUY
                 _Fee__Buy_Contract <= 20, "E02");
       // Update fees
                         = BNB on BUY;
        _Fee__Buy_BNB
        Fee Buy Liquidity = Liquidity on BUY;
        _Fee__Buy_Reflection = Reflection_on_BUY;
        _Fee__Buy_Burn
                             = Burn on BUY;
```

```
_Fee__Buy_Tokens = Tokens_on_BUY;
       // Fees that will need to be processed during swap and
liquify
       _SwapFeeTotal_Buy = _Fee__Buy_BNB + _Fee__Buy_Liquidity
+ _Fee__Buy_Contract;
       emit updated_Buy_fees(_Fee__Buy_BNB, _Fee__Buy_Liquidity,
_Fee__Buy_Reflection, _Fee__Buy_Burn, _Fee__Buy_Tokens,
_Fee__Buy_Contract);
   }
   // Set Sell Fees
   function Contract_SetUp_02__Fees_on_Sell(
       uint256 BNB on SELL,
       uint256 Liquidity_on_SELL,
       uint256 Reflection on SELL,
       uint256 Burn_on_SELL,
       uint256 Tokens on SELL
       ) external onlyOwner {
       _Fee__Sell_Contract = ContractFee;
       // Buyer protection: max fee can not be set over 20%
(including the 1% contract fee if applicable)
       require (BNB_on_SELL
                Liquidity_on_SELL +
                Reflection_on_SELL +
                Burn on SELL
                Tokens on SELL
                _Fee__Sell_Contract <= 20, "E03");
       // Update fees
       _Fee__Sell_BNB
                         = BNB on SELL;
       _Fee__Sell_Liquidity = Liquidity_on_SELL;
       _Fee__Sell_Reflection = Reflection_on_SELL;
       Fee Sell Burn = Burn on SELL;
       _Fee__Sell_Tokens = Tokens_on_SELL;
       // Fees that will need to be processed during swap and
```

```
liquify
        _SwapFeeTotal_Sell = _Fee__Sell_BNB +
_Fee__Sell_Liquidity + _Fee__Sell_Contract;
        emit updated Sell fees (Fee Sell BNB,
_Fee__Sell_Liquidity, _Fee__Sell_Reflection, _Fee__Sell_Burn,
_Fee__Sell_Tokens, _Fee__Sell_Contract);
    }
    /*
    SET MAX TRANSACTION AND MAX HOLDING LIMITS
    To protect buyers, these values must be set to a minimum of
0.1% of the total supply
    Wallet limits are set as a number of tokens, not as a percent
of supply!
    If you want to limit people to 2% of supply and your supply is
1,000,000 tokens then you
    will need to enter 20000 (as this is 2% of 1,000,000)
    */
    // Wallet Holding and Transaction Limits (Enter token amount,
excluding decimals)
    function Contract SetUp 03 Wallet Limits(
        uint256 Max Tokens Per Transaction,
        uint256 Max_Total_Tokens_Per_Wallet
        ) external onlyOwner {
       // Buyer protection - Limits must be set to greater than
0.1% of total supply
        require(Max_Tokens_Per_Transaction >= _tTotal / 1000 /
10** decimals, "E04");
```

```
require(Max_Total_Tokens_Per_Wallet >= _tTotal / 1000 /
10**_decimals, "E05");
        max_Tran = Max_Tokens_Per_Transaction * 10**_decimals;
        max Hold = Max Total Tokens Per Wallet * 10** decimals;
        emit updated Wallet Limits(max Tran, max Hold);
    }
    /*
    UPDATE PROJECT WALLETS
    The contract can process fees in the native token or BNB.
    Processed fees are sent to external wallets (Token Fee Wallet
and BNB_Fee_Wallet).
    Cake LP Tokens that are created when the contract makes Auto
Liquidity are sent to the Liquidity Collection Wallet
    Periodically, these tokens will need to be locked (or burned).
    During deployment, all external wallets are set to the owner
wallet by default, but can be updated here.
    INVESTORS - Please check the project website for details of
how fees are distributed.
    */
    function Contract_SetUp_04__Set_Wallets(
        address Token Fee Wallet,
        address payable BNB_Fee_Wallet,
        address Liquidity_Collection_Wallet
        ) external onlyOwner {
```

```
// Update Token Fee Wallet
       require(Token Fee Wallet != address(0), "E06");
       Wallet Tokens = Token Fee Wallet;
       // Make limit exempt
       _isLimitExempt[Token_Fee_Wallet] = true;
       // Update BNB Fee Wallet
       require(BNB Fee Wallet != address(0), "E07");
       Wallet_BNB = payable(BNB_Fee_Wallet);
       // To send the auto liquidity tokens directly to burn
Wallet Liquidity = Liquidity Collection Wallet;
   }
   ADD PROJECT LINKS
    The information that you add here will appear on BSCScan,
helping potential investors to find out more about your project.
   Be sure to enter the complete URL as many websites will
automatically detect this, and add links to your token listing.
   If you are updating one link, you will also need to re-enter
the other two links.
    */
   function Contract SetUp 05 Update Socials(
       string memory Website URL,
       string memory Telegram_URL,
       string memory Liquidity_Locker_URL
       ) external onlyOwner{
       Website
                        = Website URL;
```

```
_Telegram = Telegram_URL;
        _LP_Locker_URL = Liquidity_Locker_URL;
    }
    /*
    SET UP PRE-SALE CONTRACT ADDRESS
    If you are doing a pre-sale, the pre-sale company will give
you an
    address and tell you that it needs to be white-listed.
    Enter it here and it will be granted the required privileges.
    Do not continue with contract setup until the pre-sale has
been finalized.
    */
    function Contract_SetUp_06__PreSale_Wallet (address
PreSale_Wallet_Address) external onlyOwner {
        _isLimitExempt[PreSale_Wallet_Address]
                                                    = true;
        _isExcludedFromFee[PreSale_Wallet_Address] = true;
       isWhiteListed[PreSale_Wallet_Address]
                                                    = true;
    }
```

```
You have the ability to blacklist wallets prior to launch.
    This should only be used for known bot users.
    Check https://poocoin.app/sniper-watcher to see currently
active bot users
    To blacklist, enter a wallet address and set to true.
    To remove blacklist, enter a wallet address and set to false.
    To protect your investors (and improve your audit score) you
can only blacklist
   wallets before public launch. However, you will still be able
to 'un-blacklist'
    previously blacklisted wallets after launch.
    */
    function Launch Settings 01 Blacklist Bots(
        address Wallet,
        bool true_or_false
        ) external onlyOwner {
       // Buyer Protection - Blacklisting can only be done before
Launch
        if (true or false){require(LaunchTime == 0, "E08");}
       isBlacklisted[Wallet] = true or false;
    }
   /*
    SET LAUNCH LIMIT RESTRICTIONS
```

BLACKLIST BOTS - PRE LAUNCH ONLY!

During the launch phase, additional restrictions can help to spread the tokens more evenly over the initial buyers.

This helps to prevent whales accumulating a max wallet for almost nothing and prevent dumps.

Settings:

Launch_Buy_Delay_Seconds = Number of seconds a buyer will have to wait before buying again

Launch_Transaction_Limit = Amount of TOKENS that can be purchased in one transaction

Launch_Phase_Length_Minutes = Time (in minutes) that launch phase restrictions will last

Important:

Remember that the transaction limit is in TOKENS not a percent of total supply!

Recommendations:

I'd suggest having a delay timer of 10 to 20 seconds, a transaction limit of 50% of your standard transaction limit,

and a launch phase length of about 5 minutes

```
*/
function Launch_Settings_02__Set_Launch_Limits(
    uint256 Launch_Buy_Delay_Seconds,
    uint256 Launch_Transaction_Limit_TOKENS,
    uint256 Launch_Phase_Length_Minutes
) external onlyOwner {
```

max_Tran_Launch = Launch_Transaction_Limit_TOKENS * 10 **
decimals;

```
Launch_Buy_Delay = Launch_Buy_Delay_Seconds;
Launch_Length = Launch_Phase_Length_Minutes * 60;
```

/* -----ADD LIQUIDITY

}

If you have done a pre-sale, the pre-sale company will most likely add the liquidity

for you automatically. If you are not doing a pre-sale, but you plan to do a private sale,

you must add the liquidity now, but do not open trade until the private sale is complete.

To add your liquidity go to https://pancakeswap.finance/add/BNB and enter your contract address into the 'Select' field.

COMPLETE AIRDROPS

If your project requires that you airdrop people tokens, you should do this after adding

liquidity. This will prevent any whitelisted token holders from adding liquidity before you

and thus setting the price of your token.

```
/*
   OPEN TRADE
    */
   // Open trade: Buyer Protection - one way switch - trade can
not be paused once opened
   function Launch_Settings_03__OpenTrade() external onlyOwner {
       // Can only use once!
        require(!TradeOpen, "E09");
       TradeOpen = true;
        swapAndLiquifyEnabled = true;
        LaunchPhase = true;
        LaunchTime = block.timestamp;
       emit updated_trade_Open(TradeOpen);
        emit
updated_SwapAndLiquify_Enabled(swapAndLiquifyEnabled);
       // Set the contract fee if required
       Fee Buy Contract = ContractFee;
       Fee Sell Contract = ContractFee;
       _SwapFeeTotal_Buy = _Fee__Buy_Liquidity + _Fee__Buy_BNB
+ Fee Buy Contract;
       _SwapFeeTotal_Sell = _Fee__Sell_Liquidity +
_Fee__Sell_BNB + _Fee__Sell_Contract;
       emit set_Contract_Fee(_Fee__Buy_Contract,
_Fee__Sell_Contract);
   }
```

```
CONTRACT MAINTENANCE FUNCTIONS
    ______
    */
    /*
    REMOVE CONTRACT FEE
    Remove 1% Contract Fee for 2 BNB
    If you opted for the 1% ongoing fee in your contract you can
remove this at a cost of 2 BNB at any time.
    To do this, enter the number 2 into the field.
    WARNING - If you renounce the contract, you will lose access
to this function!
    */
    function Maintenance_01__Remove_Contract_Fee() external
onlyOwner payable {
        require(msg.value == 2*10**18, "E10");
           // Check Affiliate is genuine - (Holds the TokensByGEN
Affiliate Token)
            if(AFT.balanceOf(Wallet_TBG_AFF) > 0){
                           uint256 AFF_2BNB = 0;
                           uint256 TBG_2BNB = 0;
```

```
// Calculate the affiliate percentage
based on GEN holding
                            if(GEN.balanceOf(Wallet TBG AFF) >=
Tier_3){
                                AFF_2BNB = 20;
                                TBG 2BNB = 80;
                            } else if
(GEN.balanceOf(Wallet_TBG_AFF) >= Tier_2){
                                AFF_2BNB = 15;
                                TBG_2BNB = 85;
                            } else {
                                AFF_2BNB = 10;
                                TBG 2BNB = 90;
                            }
                            // Send BNB to affiliate and
TokensByGEN Contract Fee
                            if (AFF_2BNB > 0){
                                send_BNB(Wallet_TBG_AFF, msg.value
* AFF 2BNB / 100);
                                send_BNB(feeCollector, msg.value *
TBG_2BNB / 100);
                            }
            } else {
                // Affiliate is not valid, send BNB to TokensByGEN
contract Fee only
                send_BNB(feeCollector, msg.value);
            }
        // Remove Contract Fee
        ContractFee
                                 = 0;
```

```
__Fee__Buy_Contract = 0;
__Fee__Sell_Contract = 0;

// Emit Contract Fee update
    emit set_Contract_Fee(_Fee__Buy_Contract,
_Fee__Sell_Contract);

// Update Swap Fees
    __SwapFeeTotal_Buy = _Fee__Buy_Liquidity + _Fee__Buy_BNB;
    __SwapFeeTotal_Sell = _Fee__Sell_Liquidity +
_Fee__Sell_BNB;
}

/*

ADDING A NEW LIQUIDITY PAIR
```

The only way that your contract knows to apply a fee is when an address is set as true via this function.

This has already been done for your BNB pair, but if you add a new pair you need to enter the address of that pair into this function and set it to true.

When you create a new liquidity pair on pancake swap they mint a new token (called Cake LP) with a unique

address that represents your token and the other token you used to create the pool.

Remember that anybody can create a new liquidity pair for any token. So if you renounce ownership, you will lose the ability to update the contract with the new pair address.

If you have no-fee for wallet-to-wallet transfers (the default) then there is a potential exploit where the new liquidity pair could be used to purchase tokens without paying a fee.

Therefore, if you plan to renounce, you must first deactivate the no fee option for wallet-to-wallet transfers.

```
You can do this using the
"Contract_Options_02__No_Fee_Wallet_Transfers" function.
    Obviously, this is something you need to be very transparent
about. If you tell people your token has no fee for
    wallet transfers and later change this, you could be
responsible for people losing money.
    It is best to decide from the very beginning if you plan to
renounce in future. If you do, then immediately deactivate
    the fee-free transfer option and do not promote it as a
feature of your token.
    */
    // Setting an address as a liquidity pair
    function Maintenance_02__Add_Liquidity_Pair(
        address Wallet Address,
        bool true_or_false)
         external onlyOwner {
        isPair[Wallet Address] = true or false;
        _isLimitExempt[Wallet_Address] = true_or_false;
    }
    /*
    CONTRACT OWNERSHIP FUNCTIONS
    */
```

```
// Transfer the contract to to a new owner
   function Maintenance 03 Transfer Ownership(address payable
newOwner) public onlyOwner {
        require(newOwner != address(0), "E11");
       // Remove old owner status
       isLimitExempt[owner()] = false;
       _isExcludedFromFee[owner()] = false;
       isWhiteListed[owner()] = false;
       // Emit ownership transfer
       emit OwnershipTransferred(_owner, newOwner);
       // Transfer owner
       owner = newOwner;
   }
   /*
   Due to a potential exploit, it is not possible to renounce the
contract while no-fee wallet-to-wallet
   transfers are set to true. To deactivate this option, use the
"Contract Options 02 No Fee Wallet Transfers"
   function and set it as 'false' before renouncing.
    */
   // Renounce ownership of the contract
   function Maintenance 04 Renounce Ownership() public virtual
onlyOwner {
       // Renouncing is not compatible with no-fee
wallet-to-wallet transfers
       // (also prevents 'accidental' renounce... People like
clicking buttons!)
        require(!noFeeW2W, "Can not renounce and have no-fee
wallet transfers!");
       // Remove old owner status
       isLimitExempt[owner()] = false;
       _isExcludedFromFee[owner()] = false;
        isWhiteListed[owner()]
                                = false;
```

```
emit OwnershipTransferred(_owner, address(0));
        owner = address(0);
    }
    FEE PROCESSING
    _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
    */
    // Default is True. Contract will process fees into Marketing
and Liquidity etc. automatically
    function Processing 01 Auto Process(bool true or false)
external onlyOwner {
        swapAndLiquifyEnabled = true or false;
        emit updated_SwapAndLiquify_Enabled(true_or_false);
    }
    // Manually process fees
    function Processing_02__Process_Now (uint256
Percent of Tokens to Process) external onlyOwner {
        require(!inSwapAndLiquify, "E12");
        if (Percent_of_Tokens_to_Process >
100){Percent of Tokens to Process == 100;}
        uint256 tokensOnContract = balanceOf(address(this));
        uint256 sendTokens = tokensOnContract *
Percent_of_Tokens_to_Process / 100;
        swapAndLiquify(sendTokens);
    }
    // Update count for swap trigger - Number of transactions to
```

```
wait before processing accumulated fees (default is 10)
    function Processing_03__Update_Swap_Trigger_Count(uint256
Transaction Count) external onlyOwner {
        // Counter is reset to 1 (not 0) to save gas, so add one
to swapTrigger
        swapTrigger = Transaction_Count + 1;
    }
    // Remove random tokens from the contract
    function Processing 04 Remove Random Tokens(
        address random_Token_Address,
        uint256 number of Tokens
        ) external onlyOwner {
            // Can not purge the native token!
            require (random_Token_Address != address(this),
"E13");
            IERC20(random Token Address).transfer(msg.sender,
number_of_Tokens);
    }
    REFLECTION REWARDS
    The following functions are used to exclude or include a
wallet in the reflection rewards.
    By default, all wallets are included.
   Wallets that are excluded:
            The Burn address
            The Liquidity Pair
            The Contract Address
```

```
*** WARNING - DoS 'OUT OF GAS' Risk! ***
```

A reflections contract needs to loop through all excluded wallets to correctly process several functions.

This loop can break the contract if it runs out of gas before completion.

To prevent this, keep the number of wallets that are excluded from rewards to an absolute minimum.

In addition to the default excluded wallets, you may need to exclude the address of any locked tokens.

```
*/
    // Wallet will not get reflections
    function Rewards Exclude Wallet(address account) public
onlyOwner() {
        require(! isExcluded[account], "Account is already
excluded");
        if( rOwned[account] > 0) {
            tOwned[account] =
tokenFromReflection(_rOwned[account]);
        isExcluded[account] = true;
        excluded.push(account);
    }
    // Wallet will get reflections - DEFAULT
    function Rewards Include Wallet(address account) external
onlyOwner() {
        require( isExcluded[account], "Account is already
included");
        for (uint256 i = 0; i < _excluded.length; i++) {</pre>
            if (_excluded[i] == account) {
                _excluded[i] = _excluded[_excluded.length - 1];
                tOwned[account] = 0;
                _isExcluded[account] = false;
                _excluded.pop();
                break;
```

```
}
        }
    }
    /*
    WALLET SETTINGS
    */
    // Grants access when trade is closed - Default false (true
for contract owner)
    function Wallet_Settings_01__PreLaunch_Access(
        address Wallet_Address,
        bool true_or_false
        ) external onlyOwner {
        _isWhiteListed[Wallet_Address] = true_or_false;
    }
    // Excludes wallet from transaction and holding limits -
Default false
    function Wallet_Settings_02__Exempt_From_Limits(
        address Wallet_Address,
        bool true_or_false
        ) external onlyOwner {
        _isLimitExempt[Wallet_Address] = true_or_false;
    }
```

```
// Excludes wallet from fees - Default false
function Wallet_Settings_03__Exclude_From_Fees(
    address Wallet_Address,
    bool true_or_false
    ) external onlyOwner {
    _isExcludedFromFee[Wallet_Address] = true_or_false;
}
/*
BEP20 STANDARD AND COMPLIANCE
*/
function owner() public view returns (address) {
    return _owner;
}
function name() public view returns (string memory) {
    return _name;
}
function symbol() public view returns (string memory) {
    return _symbol;
}
function decimals() public view returns (uint256) {
    return _decimals;
}
```

```
function totalSupply() public view override returns (uint256)
{
        return _tTotal;
    }
    function balanceOf(address account) public view override
returns (uint256) {
        if ( isExcluded[account]) return tOwned[account];
        return tokenFromReflection( rOwned[account]);
    }
    function allowance(address owner, address spender) public view
override returns (uint256) {
        return allowances[owner][spender];
    }
    function increaseAllowance(address spender, uint256
addedValue) public virtual returns (bool) {
        approve( msgSender(), spender,
_allowances[_msgSender()][spender].add(addedValue));
        return true;
    }
    function decreaseAllowance(address spender, uint256
subtractedValue) public virtual returns (bool) {
        approve( msgSender(), spender,
allowances[ msgSender()][spender].sub(subtractedValue, "Decreased
allowance below zero"));
        return true;
    }
    function approve(address spender, uint256 amount) public
override returns (bool) {
       _approve(_msgSender(), spender, amount);
        return true;
    }
    function approve(address owner, address spender, uint256
amount) private {
        require(owner != address(0), "BEP20: approve from the zero
address");
```

```
require(spender != address(0), "BEP20: approve to the zero
address");
        _allowances[owner][spender] = amount;
        emit Approval(owner, spender, amount);
    }
    function tokenFromReflection(uint256 _rAmount) internal view
returns(uint256) {
        require(_rAmount <= _rTotal, "E14");</pre>
        uint256 currentRate = getRate();
        return _rAmount / currentRate;
    }
    function _getRate() private view returns(uint256) {
        (uint256 rSupply, uint256 tSupply) = getCurrentSupply();
        return rSupply / tSupply;
    }
    function getCurrentSupply() private view returns(uint256,
uint256) {
        uint256 rSupply = rTotal;
        uint256 tSupply = tTotal;
        for (uint256 i = 0; i < excluded.length; i++) {</pre>
            if ( rOwned[ excluded[i]] > rSupply ||
_tOwned[_excluded[i]] > tSupply) return (_rTotal, _tTotal);
            rSupply = rSupply - _rOwned[_excluded[i]];
            tSupply = tSupply - _tOwned[_excluded[i]];
        if (rSupply < _rTotal / _tTotal) return (_rTotal,</pre>
tTotal);
        return (rSupply, tSupply);
    }
    function transfer(address recipient, uint256 amount) public
override returns (bool) {
        _transfer(_msgSender(), recipient, amount);
        return true;
    }
    function transferFrom(address sender, address recipient,
uint256 amount) public override returns (bool) {
```

```
_transfer(sender, recipient, amount);
       _approve(sender, _msgSender(),
_allowances[sender][_msgSender()].sub(amount, "Allowance
exceeded"));
        return true;
    }
   // Transfer BNB via call to reduce possibility of future 'out
of gas' errors
   function send_BNB(address _to, uint256 _amount) internal
returns (bool SendSuccess) {
        (SendSuccess,) = payable(_to).call{value: _amount}("");
    }
   /*
    TOKEN TRANSFER HANDLING
    */
    // Main transfer checks and settings
    function transfer(
        address from,
       address to,
        uint256 amount
      ) private {
       // Allows owner to add liquidity safely, eliminating the
risk of someone maliciously setting the price
```

```
if (!TradeOpen){
        require( isWhiteListed[from] || isWhiteListed[to],
"E15");
        }
        // Launch Phase
        if (LaunchPhase && to != address(this) && _isPair[from] &&
to != owner())
            {
            // Restrict max transaction during launch phase
            require(amount <= max_Tran_Launch, "E16");</pre>
            // Stop repeat buys with timer
            require (block.timestamp >= Last Buy[to] +
Launch_Buy_Delay, "E17");
            // Stop snipers
            require(!_isSnipe[to], "E18");
            // Detect and restrict snipers
            if (block.timestamp <= LaunchTime + 5) {</pre>
                require(amount <= tTotal / 10000, "E19");</pre>
                _isSnipe[to] = true;
                }
            // Record the transaction time for the buying wallet
            _Last_Buy[to] = block.timestamp;
            // End Launch Phase after Launch Length (minutes)
            if (block.timestamp > LaunchTime +
Launch_Length){LaunchPhase = false;}
        }
        // No blacklisted wallets permitted!
        require(! isBlacklisted[to] &&
!_isBlacklisted[from],"E20");
```

```
// Wallet Limit
        if (! isLimitExempt[to] && from != owner())
            uint256 heldTokens = balanceOf(to);
            require((heldTokens + amount) <= max_Hold, "E21");</pre>
            }
        // Transaction limit - To send over the transaction limit
the sender AND the recipient must be limit exempt
        if (!_isLimitExempt[to] || !_isLimitExempt[from])
            {
            require(amount <= max Tran, "E22");</pre>
            }
        // Compliance and safety checks
        require(from != address(0), "E23");
        require(to != address(0), "E24");
        require(amount > 0, "E25");
        // Check if fee processing is possible
        if( _isPair[to] &&
            !inSwapAndLiquify &&
            swapAndLiquifyEnabled
            )
            {
            // Check that enough transactions have passed since
last swap
            if(swapCounter >= swapTrigger){
            // Check number of tokens on contract
            uint256 contractTokens = balanceOf(address(this));
            // Only trigger fee processing if there are tokens to
swap!
            if (contractTokens > 0){
```

```
// Limit number of tokens that can be swapped
                if (contractTokens <= swap_Max){</pre>
                    swapAndLiquify (contractTokens);
                    } else {
                    swapAndLiquify (swap Max);
            }
            }
            }
        // Default: Only charge a fee on buys and sells, no fee
for wallet transfers
        takeFee = true;
        if(_isExcludedFromFee[from] || _isExcludedFromFee[to] ||
(noFeeW2W && !_isPair[to] && !_isPair[from])){
            takeFee = false;
        }
        _tokenTransfer(from, to, amount, takeFee);
    }
    /*
    PROCESS FEES
    */
    function swapAndLiquify(uint256 Tokens) private {
        /*
        Fees are processed as an average of each buy/sell fee
total
        */
        // Lock swapAndLiquify function
```

```
inSwapAndLiquify = true;
       uint256 FeesTotal = ( SwapFeeTotal Buy +
_SwapFeeTotal_Sell);
       uint256 LP Tokens = Tokens * ( Fee Buy Liquidity +
_Fee__Sell_Liquidity) / _FeesTotal / 2;
       uint256 Swap Tokens = Tokens - LP Tokens;
       // Swap tokens for BNB
       uint256 contract_BNB = address(this).balance;
       swapTokensForBNB(Swap Tokens);
       uint256 returned_BNB = address(this).balance -
contract_BNB;
       // Double fees instead of halving LP fee to prevent
rounding errors if fee is an odd number
       uint256 fee_Split = _FeesTotal * 2 - (_Fee__Buy_Liquidity
+ Fee Sell Liquidity);
       // Calculate the BNB values for each fee (excluding BNB
wallet)
       uint256 BNB_Liquidity = returned BNB *
(_Fee__Buy_Liquidity + _Fee__Sell_Liquidity)
fee Split;
       uint256 BNB Contract = returned BNB *
(_Fee__Buy_Contract + _Fee__Sell_Contract) * 2 /
fee Split;
       // Add liquidity
       if (LP Tokens != 0){
           addLiquidity(LP Tokens, BNB Liquidity);
           emit SwapAndLiquify(LP Tokens, BNB Liquidity,
LP_Tokens);
       }
       // Take developer fee
       if(BNB Contract > 0){
           // Check Affiliate is genuine - (Holds the TokensByGEN
Affiliate Token)
           if(AFT.balanceOf(Wallet TBG AFF) > 0){
```

```
uint256 BNB_TBG = 0;
                    uint256 BNB DEV = 0;
                    if(GEN.balanceOf(Wallet TBG AFF) >= Tier 3){
                        BNB TBG = BNB Contract * 20 / 100;
                        BNB_DEV = BNB_Contract * 70 / 100;
                    } else if (GEN.balanceOf(Wallet_TBG_AFF) >=
Tier 2){
                        BNB_TBG = BNB_Contract * 15 / 100;
                        BNB_DEV = BNB_Contract * 75 / 100;
                    } else {
                        BNB_TBG = BNB_Contract * 10 / 100;
                        BNB_DEV = BNB_Contract * 80 / 100;
                    }
                    if (BNB_TBG != 0){
                        // Send affiliate commission and
TokensByGEN fee
                        send_BNB(Wallet_TBG_AFF, BNB_TBG);
                        send BNB(feeCollector, BNB DEV);
                    }
            } else {
            // No affiliate (or not genuine) send total fee to
TokensByGEN
                    send_BNB(feeCollector, BNB_Contract);
            }
        }
```

```
// Send remaining BNB to BNB wallet (includes 10% fee
discount if applicable)
        contract BNB = address(this).balance;
        if(contract BNB > 0){
            send BNB(Wallet BNB, contract BNB);
        }
        // Reset transaction counter (reset to 1 not 0 to save
gas)
        swapCounter = 1;
        // Unlock swapAndLiquify function
        inSwapAndLiquify = false;
    }
    // Swap tokens for BNB
    function swapTokensForBNB(uint256 tokenAmount) private {
        address[] memory path = new address[](2);
        path[0] = address(this);
        path[1] = uniswapV2Router.WETH();
        _approve(address(this), address(uniswapV2Router),
tokenAmount);
uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens
(
            tokenAmount,
            0,
            path,
            address(this),
            block.timestamp
        );
    }
    // Add Liquidity and send Cake LP tokens to Liquidity
```

```
collection wallet
    function addLiquidity(uint256 tokenAmount, uint256 BNBAmount)
private {
        _approve(address(this), address(uniswapV2Router),
tokenAmount);
        uniswapV2Router.addLiquidityETH{value: BNBAmount}(
            address(this),
            tokenAmount,
            0,
            0,
            Wallet_Liquidity,
            block.timestamp
        );
    }
    /*
    TRANSFER TOKENS AND CALCULATE FEES
    */
    uint256 private rAmount;
    uint256 private tBurn;
    uint256 private tTokens;
    uint256 private tReflect;
    uint256 private tSwapFeeTotal;
    uint256 private rBurn;
    uint256 private rReflect;
    uint256 private rTokens;
```

```
uint256 private rSwapFeeTotal;
   uint256 private tTransferAmount;
   uint256 private rTransferAmount;
   // Transfer Tokens and Calculate Fees
   function _tokenTransfer(address sender, address recipient,
uint256 tAmount, bool Fee) private {
       if (Fee){
           if(_isPair[recipient]){
               // Sell fees
               tBurn
                               = tAmount * _Fee__Sell_Burn
/ 100;
               tTokens
                           = tAmount * _Fee__Sell_Tokens
/ 100;
               tReflect = tAmount * _Fee__Sell_Reflection
/ 100;
               tSwapFeeTotal = tAmount * _SwapFeeTotal_Sell
/ 100;
           } else {
               // Buy fees
               tBurn
                              = tAmount * _Fee__Buy_Burn
/ 100;
                              = tAmount * _Fee__Buy_Tokens
               tTokens
/ 100;
               tReflect = tAmount * _Fee__Buy_Reflection
/ 100;
               tSwapFeeTotal = tAmount * _SwapFeeTotal_Buy
/ 100;
           }
       } else {
               // No fee - wallet to wallet transfer or exempt
```

```
wallet
               tBurn
                               = 0;
               tTokens
                               = 0;
               tReflect
                               = 0;
               tSwapFeeTotal = 0;
       }
       // Calculate reflected fees for RFI
       uint256 RFI = _getRate();
                      = tAmount
                                       * RFI;
        rAmount
        rBurn
                      = tBurn
                                       * RFI;
        rTokens
                      = tTokens
                                       * RFI;
                      = tReflect
        rReflect
                                       * RFI;
        rSwapFeeTotal = tSwapFeeTotal * RFI;
       tTransferAmount = tAmount - (tBurn + tTokens + tReflect +
tSwapFeeTotal);
        rTransferAmount = rAmount - (rBurn + rTokens + rReflect +
rSwapFeeTotal);
       // Swap tokens based on RFI status of sender and recipient
       if (_isExcluded[sender] && !_isExcluded[recipient]) {
           _tOwned[sender] -= tAmount;
           _rOwned[sender] -= rAmount;
               if (deflationaryBurn && recipient == Wallet_Burn)
{
               // Remove tokens from Total Supply
               tTotal -= tTransferAmount;
               _rTotal -= rTransferAmount;
               } else {
               _rOwned[recipient] += rTransferAmount;
               }
```

```
emit Transfer(sender, recipient, tTransferAmount);
        } else if (! isExcluded[sender] && isExcluded[recipient])
{
            _rOwned[sender] -= rAmount;
                if (deflationaryBurn && recipient == Wallet_Burn)
{
                // Remove tokens from Total Supply
                _tTotal -= tTransferAmount;
                _rTotal -= rTransferAmount;
                } else {
                _tOwned[recipient] += tTransferAmount;
                _rOwned[recipient] += rTransferAmount;
                }
            emit Transfer(sender, recipient, tTransferAmount);
        } else if (!_isExcluded[sender] &&
!_isExcluded[recipient]) {
            rOwned[sender] -= rAmount;
                if (deflationaryBurn && recipient == Wallet Burn)
{
                // Remove tokens from Total Supply
                _tTotal -= tTransferAmount;
                rTotal -= rTransferAmount;
                } else {
                _rOwned[recipient] += rTransferAmount;
                }
            emit Transfer(sender, recipient, tTransferAmount);
```

```
} else if (_isExcluded[sender] && _isExcluded[recipient])
{
            _tOwned[sender] -= tAmount;
            _rOwned[sender] -= rAmount;
                if (deflationaryBurn && recipient == Wallet_Burn)
{
                // Remove tokens from Total Supply
                _tTotal -= tTransferAmount;
                _rTotal -= rTransferAmount;
                } else {
                _tOwned[recipient] += tTransferAmount;
                _rOwned[recipient] += rTransferAmount;
                }
            emit Transfer(sender, recipient, tTransferAmount);
        } else {
            rOwned[sender] -= rAmount;
                if (deflationaryBurn && recipient == Wallet Burn)
{
                // Remove tokens from Total Supply
                tTotal -= tTransferAmount;
                rTotal -= rTransferAmount;
                } else {
                _rOwned[recipient] += rTransferAmount;
                }
            emit Transfer(sender, recipient, tTransferAmount);
        }
        // Take reflections
        if(tReflect > 0){
```

```
_rTotal -= rReflect;
            tFeeTotal += tReflect;
        }
        // Take tokens
        if(tTokens > 0){
            rOwned[Wallet Tokens] += rTokens;
            if(_isExcluded[Wallet_Tokens])
            tOwned[Wallet Tokens] += tTokens;
        }
       // Take fees that require processing during swap and
liquify
        if(tSwapFeeTotal > 0){
            rOwned[address(this)] += rSwapFeeTotal;
            if(_isExcluded[address(this)])
            tOwned[address(this)] += tSwapFeeTotal;
            // Increase the transaction counter
            swapCounter++;
        }
        // Handle tokens for burn
        if(tBurn != 0){
            if (deflationaryBurn){
                // Remove tokens from total supply
                _tTotal = _tTotal - tBurn;
                _rTotal = _rTotal - rBurn;
            } else {
                // Send Tokens to Burn Wallet
                rOwned[Wallet Burn] += tBurn;
                if(_isExcluded[Wallet_Burn])
                _tOwned[Wallet_Burn] += rBurn;
            }
       }
   }
}
```

4. Tax Fee contract

```
// Set Buy Fees
   function Contract SetUp 01 Fees on Buy(
       uint256 BNB on BUY,
       uint256 Liquidity on BUY,
       uint256 Reflection_on_BUY,
       uint256 Burn on BUY,
       uint256 Tokens_on_BUY
       ) external onlyOwner {
       _Fee__Buy_Contract = ContractFee;
       // Buyer protection: max fee can not be set over 20%
(including the 1% contract fee if applicable)
       require (BNB_on_BUY
                Liquidity_on_BUY
                Reflection_on_BUY
                Burn on BUY
                Tokens_on_BUY
                Fee Buy Contract <= 20, "E02");
       // Update fees
       _Fee__Buy_BNB
                        = BNB on BUY;
       Fee Buy Liquidity = Liquidity on BUY;
       _Fee__Buy_Reflection = Reflection_on_BUY;
       Fee Buy Burn
                          = Burn on BUY;
       _Fee__Buy_Tokens = Tokens_on_BUY;
       // Fees that will need to be processed during swap and
liquify
       _SwapFeeTotal_Buy = _Fee__Buy_BNB + _Fee__Buy_Liquidity
+ _Fee__Buy_Contract;
       emit updated_Buy_fees(_Fee__Buy_BNB, _Fee__Buy_Liquidity,
Fee Buy Reflection, Fee Buy Burn, Fee Buy Tokens,
_Fee__Buy_Contract);
   }
```

```
// Set Sell Fees
   function Contract SetUp 02 Fees on Sell(
       uint256 BNB on SELL,
       uint256 Liquidity_on_SELL,
       uint256 Reflection_on_SELL,
       uint256 Burn_on_SELL,
       uint256 Tokens on SELL
       ) external onlyOwner {
       _Fee__Sell_Contract = ContractFee;
       // Buyer protection: max fee can not be set over 20%
(including the 1% contract fee if applicable)
       require (BNB_on_SELL
                Liquidity on SELL +
                Reflection_on_SELL +
                Burn on SELL
                Tokens_on_SELL +
                Fee Sell Contract <= 20, "E03");</pre>
       // Update fees
       Fee Sell BNB = BNB on SELL;
       _Fee__Sell_Liquidity = Liquidity_on_SELL;
       Fee Sell Reflection = Reflection on SELL;
       _Fee__Sell_Burn = Burn_on_SELL;
       _Fee__Sell_Tokens = Tokens_on_SELL;
       // Fees that will need to be processed during swap and
liquify
       _SwapFeeTotal_Sell = _Fee__Sell_BNB +
Fee Sell Liquidity + Fee Sell Contract;
       emit updated_Sell_fees(_Fee__Sell_BNB,
_Fee__Sell_Liquidity, _Fee__Sell_Reflection, _Fee__Sell_Burn,
_Fee__Sell_Tokens, _Fee__Sell_Contract);
    }
```

The owner can't set fees over 20%

READ CONTRACT (ONLY NEED TO KNOW)

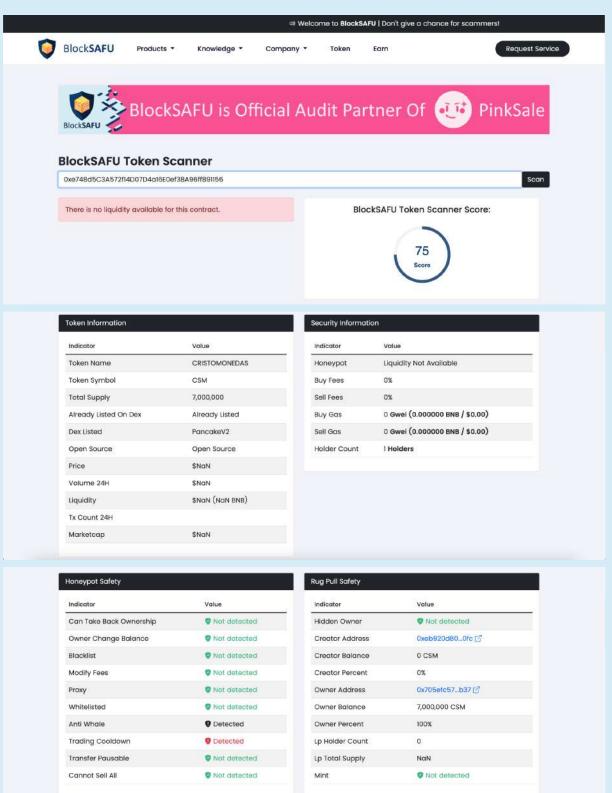
- 1. Token Information show all token information uint256 (Shows Contract Information)
- 2. TradeOpenfalse bool(Shows trade open status)
- 3. Wallet_BNB 0x44ea309d694f6f94f2febd1c0f0e63c7b5ee2263 address (Function for read wallet bnb receiver)
- 5. Wallet_Liquidity
 0x11a7be8ae0ff813b6632c4b193887b57f1af11f7 uint256
 (Function for read lp owner)
- 6. nameCRISTOMONEDAS string(Function for read Token name)

WRITE CONTRACT

- 1. renounceOwnership (Renouncing ownership will leave the contract without an owner, thereby removing any functionality that is only available to the owner)
- 2. transferOwnership newOwner (address)(Its function is to change the owner)

BlockSAFU TOKEN SCANNER

https://blocksafu.com/token-scanner



WEBSITE REVIEW



- Mobile Friendly
- Contains no code error
- SSL Secured (By Let's Encrypt SSL)

Web-Tech stack: Wordpress, cloudflare

Domain .com (enom) - Tracked by whois

First Contentful Paint:	1.3s
Fully Loaded Time	4.2s
Performance	95%
Accessibility	96%
Best Practices	92%
SEO	100%

RUG-PULL REVIEW

Based on the available information analyzed by us, we come to the following conclusions:

- Locked Liquidity (Locked by pinksale)
 will be updated after listing on dex
- TOP 5 Holder.

will be updated after listing on dex

The team is no KYC By Blocksafu

HONEYPOT REVIEW

- Owner can sell before starting trading.
- The owner can pause the contract.
- The owner can't set fees over 20%
- The owner can set blacklist

Note: Please check the disclaimer above and note, that the audit makes no statements or warranties on the business model, investment attractiveness, or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by the project own.