RugFreeCoins Audit

Dubai Doge Token
Smart Contract Security Audit

September 6 2022

Contents

Audit details

Audited project
Dubai Doge Token

Contract Address
0x6260eaD26f6B7D9c7b555f386366d15edD9649A5

Client contact
Dubai Doge Team

Blockchain
Binance smart chain

Project website
https://dubaidoge.finance/

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn’t say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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Overview

✅ No mint function found, the owner cannot mint tokens after initial deployment.

✅ There’s no max tx limits and max wallet limits in the contract.

✅ The owner can’t pause trading.

✅ The owner can't set fees over 20%.

✅ Owner can't blacklist wallets.

✅ The owner can’t claim the contract’s balance of its own token.

Background

Rugfreecoins was commissioned by the Dubai Doge Team to perform an audit of the smart contract.

https://bscscan.com/address/0x6260eaD26f6B7D9c7b555f386366d15edD9649A5

The focus of this audit is to verify that the smart contract is secure, resilient, and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, and long-term sustainability, and as a guide to improving the security posture of the smart contract by remediating the issues that were identified.

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ROADMAP

Idea generation

- Project was born
- Website Launch
- Whitepaper Release
- Community Building
- Marketing Campaigns
- Community Growth and Development
- Smart Contract Deployment

Initial Release

- Pinksale Presale
- Audit & KYC – SAFU
- Marketing Drive to Spread Awareness
- Launch on Pancakeswap
- 2000 Holders

Market

- Listing on CoinGecko
- Listing on CoinMarketCap
- Press Releases
- 30,000 Telegram Members
- Trustwallet Logo
- Billboard at Various Cities

Strategy

- Partnerships & Events
- Staking dApp
- Begin Development of P2E Games
- NFT Collectio
- Metaverse Development
- 1 Tier CEX listing

Tokenomics

10% when buying & selling

- 4% of trade goes to the marketing wallet in tokens.
- 2% of trade goes to the distribute rewards among investors in tokens.
- 3% of trade goes to the development wallet in BNB.
- 1% of trade goes to the burn wallet.

Target market and the concept

Target market

- Anyone who’s interested in the Crypto space with long-term investment plans.
- Anyone who’s ready to earn a passive income by holding tokens.
- Anyone who’s interested in trading tokens.
- Anyone who’s ready to staking and receive rewards.
- Anyone who’s interested in taking part in the future plans of the Dubai Doge.
- Anyone who’s interested in making financial transactions with any other party using Dubai Doge Token as the currency.

Potential to grow with score points

1.	Project efficiency	8/10
2.	Project uniqueness	8/10
3	Information quality	8/10
4	Service quality	8/10
5	System quality	8/10
6	Impact on the community	8/10
7	Impact on the business	8/10
8	Preparing for the future	8/10
9	Smart contract security	10/10
10	Smart contract functionality assessment	10/10
Total Points		**8.4/10**

Contract details

Token contract details for 6th of September 2022

Contract name	DubaiDoge
Contract address	0x6260eaD26f6B7D9c7b555f386366d15edD9649A5
Token supply	100,000,000,000,000,000
Token ticker	DubaiDoge
Decimals	9
Token holders	1
Transaction count	1
Development wallet	0xe2e2a032368eba5e141b2f1fd8067c9505747b7e
Marketing wallet	0xcc0ec2740232c1b38a27494611b6f37ddd5b9170
Contract deployer address	0xD3518915b1C6DE585224BA42f674C024aEbF0716
Contract’s current owner address	0xD3518915b1C6DE585224BA42f674C024aEbF0716

Contract code function details

No	Category	Item	Result
1	Coding conventions	BRC20 Token standards	pass
		compile errors	pass
		Compiler version security	pass
		visibility specifiers	pass
		Gas consumption	pass
		SafeMath features	pass
		Fallback usage	pass
		tx.origin usage	pass
		deprecated items	pass
		Redundant code	pass
		Overriding variables	pass
2	Function call audit	Authorization of function call	pass
		Low level function (call/delegate call) security	pass
		Returned value security	pass
		Self-destruct function security	pass
3	Business security	Access control of owners	
		Business logics	pass
		Business implementations	pass
4	Integer overflow/underflow		pass
5	Reentrancy		pass
6	Exceptional reachable state		pass
7	Transaction ordering dependence		pass
8	Block properties dependence		pass
9	Pseudo random number generator (PRNG)		pass
10	DoS (Denial of Service)		pass
11	Token vesting implementation		pass
12	Fake deposit		pass

13	Event security		pass

Contract description table

The below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions, and implementations with their visibility and mutability.

Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
DubaiDoge	**Implementation**	**Context,** **IERC20,** **Ownable**		
L		Public ❗	🛑	NO❗
L	name	Public ❗		NO❗
L	symbol	Public ❗		NO❗
L	decimals	Public ❗		NO❗
L	totalSupply	Public ❗		NO❗
L	balanceOf	Public ❗		NO❗
L	transfer	Public ❗	🛑	NO❗
L	allowance	Public ❗		NO❗
L	approve	Public ❗	🛑	NO❗
L	transferFrom	Public ❗	🛑	NO❗
L	increaseAllowance	Public ❗	🛑	NO❗
L	decreaseAllowance	Public ❗	🛑	NO❗
L	isExcludedFromReward	Public ❗		NO❗
L	totalFees	Public ❗		NO❗

└	deliver	Public ❗	🛑	NO❗
└	reflectionFromToken	Public ❗		NO❗
└	tokenFromReflection	Public ❗		NO❗
└	excludeFromReward	Public ❗	🛑	onlyOwner
└	includeInReward	External ❗	🛑	onlyOwner
└	setMarketingWallet	External ❗	🛑	onlyOwner
└	setDevWallet	External ❗	🛑	onlyOwner
└	changeSwapAmount	External ❗	🛑	onlyOwner
└	setExcludedFromFee	External ❗	🛑	onlyOwner
└	tradingEnable	External ❗	🛑	onlyOwner
└	updateBuyFees	External ❗	🛑	onlyOwner
└	updateSellFees	External ❗	🛑	onlyOwner
└	updateSwapPercentages	External ❗	🛑	onlyOwner
└	setSwapAndLiquifyEnabled	Public ❗	🛑	onlyOwner
└		External ❗	💵	NO❗
└	setUniswapRouter	External ❗	🛑	onlyOwner
└	setUniswapPair	External ❗	🛑	onlyOwner
└	setAuthorizedWallets	External ❗	🛑	onlyOwner
└	setExcludedFromAutoLiquidity	External ❗	🛑	onlyOwner
└	_reflectFee	Private 🔐	🛑	
└	_getTValues	Private 🔐		

L	_getRValues	Private 🔐		
L	_getRate	Private 🔐		
L	_getCurrentSupply	Private 🔐		
L	takeTokenFees	Private 🔐	🛑	
L	takeTransactionFee	Private 🔐	🛑	
L	calculateFee	Private 🔐		
L	isExcludedFromFee	Public ❗		NO❗
L	_approve	Private 🔐	🛑	
L	_transfer	Private 🔐	🛑	
L	swapAndSendBnb	Private 🔐	🛑	lockTheSwap
L	swapTokensForBnb	Private 🔐	🛑	
L	_tokenTransfer	Private 🔐	🛑	
L	_transferStandard	Private 🔐	🛑	
L	_transferBothExcluded	Private 🔐	🛑	
L	_transferToExcluded	Private 🔐	🛑	
L	_transferFromExcluded	Private 🔐	🛑	
Ownable	**Implementation**	**Context**		
L		Public ❗	🛑	NO❗
L	owner	Public ❗		NO❗
L	_checkOwner	Internal 🔒		

L	renounceOwnership	Public ❗	🛑	onlyOwner
L	transferOwnership	Public ❗	🛑	onlyOwner
L	_transferOwnership	Internal 🔒	🛑	
IERC20	**Interface**			
L	totalSupply	External ❗		NO❗
L	balanceOf	External ❗		NO❗
L	transfer	External ❗	🛑	NO❗
L	allowance	External ❗		NO❗
L	approve	External ❗	🛑	NO❗
L	transferFrom	External ❗	🛑	NO❗
IUniswapV2 Router02	**Interface**	**IUniswapV2 Router01**		
L	removeLiquidityETHSupportingFeeOnTransferTokens	External ❗	🛑	NO❗
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External ❗	🛑	NO❗
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External ❗	🛑	NO❗
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External ❗	💵	NO❗
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External ❗	🛑	NO❗
SafeMath	**Library**			
L	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 🔒		
IUniswapV2 Factory	**Interface**			
└	feeTo	External ❗		NO❗
└	feeToSetter	External ❗		NO❗
└	getPair	External ❗		NO❗
└	allPairs	External ❗		NO❗
└	allPairsLength	External ❗		NO❗
└	createPair	External ❗	🛑	NO❗
└	setFeeTo	External ❗	🛑	NO❗

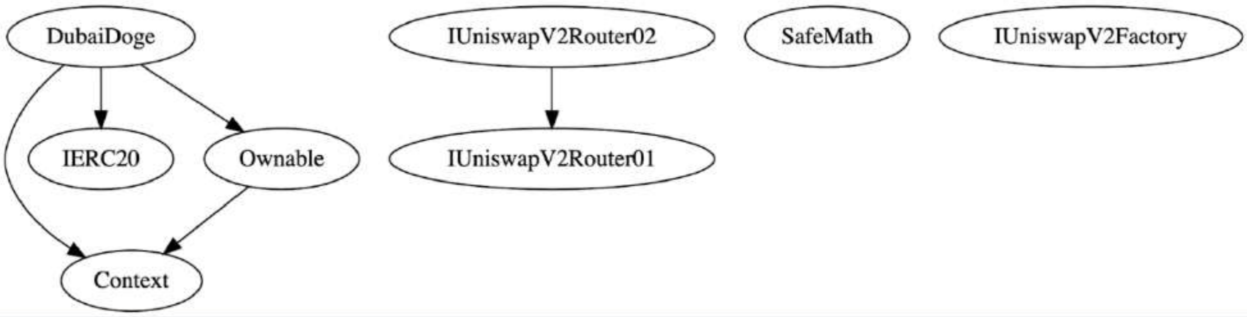
└	setFeeToSetter	External ❗	🛑	NO❗
Context	**Implementation**			
└	_msgSender	Internal 🔒		
└	_msgData	Internal 🔒		
IUniswapV2 Router01	**Interface**			
└	factory	External ❗		NO❗
└	WETH	External ❗		NO❗
└	addLiquidity	External ❗	🛑	NO❗
└	addLiquidityETH	External ❗	💵	NO❗
└	removeLiquidity	External ❗	🛑	NO❗
└	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❗

Legend

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

Inheritance Hierarchy



Security issue checking status

- **High severity issues**
  No High severity issues found

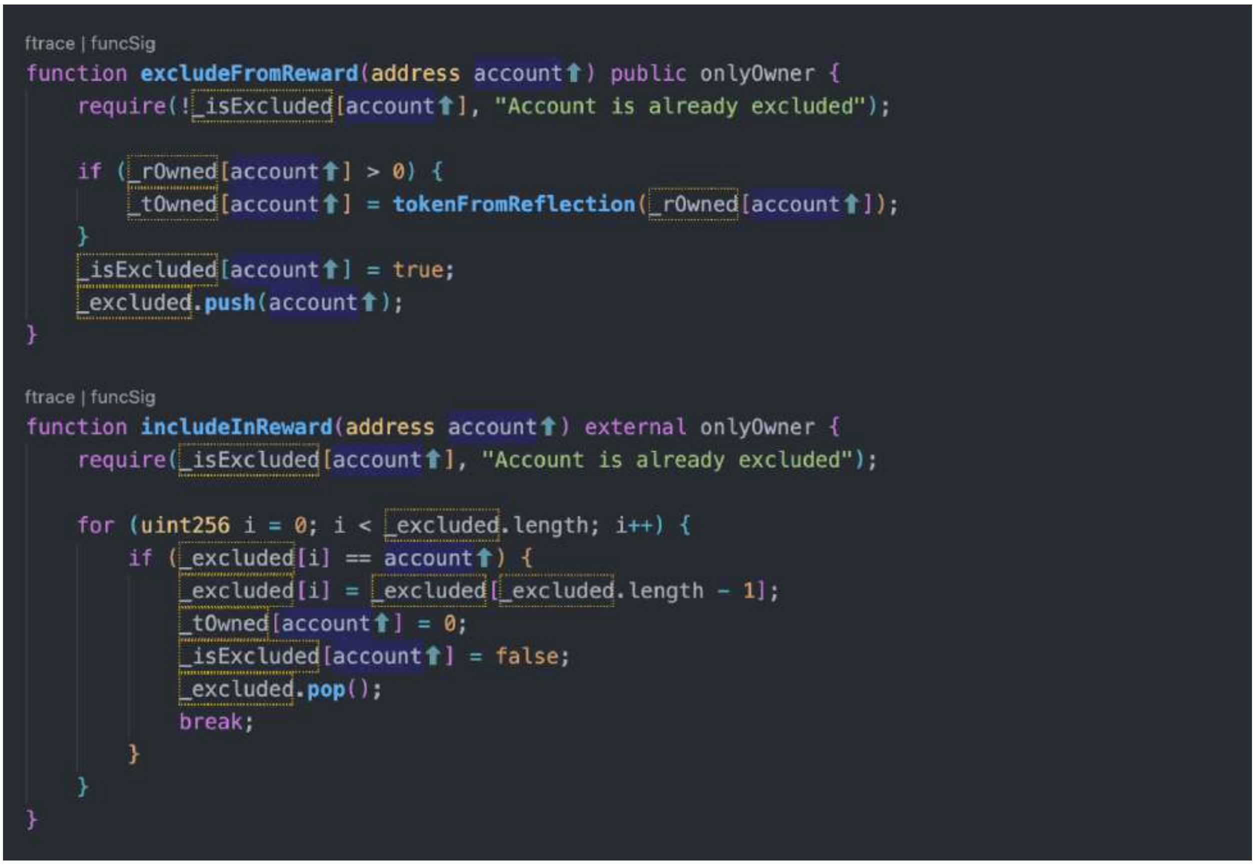
- **Medium severity issues**
  No medium severity issues found

- **Low severity issues**
  No low severity issues found

- **Centralization Risk**
  No Centralization Risk found

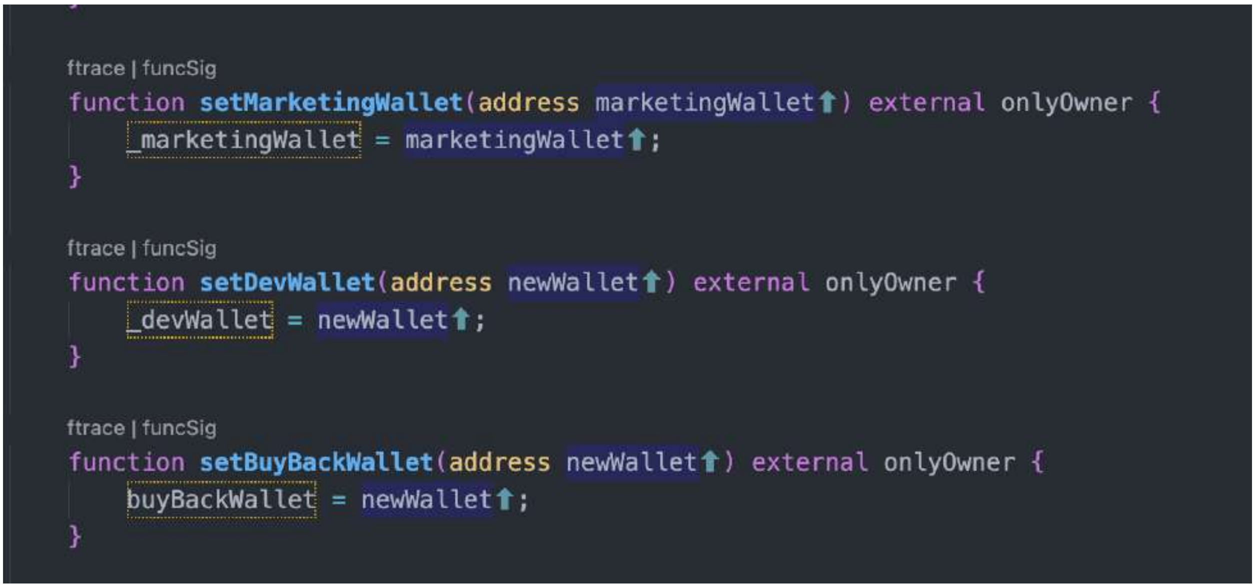
Owner privileges

❖ The owner can include/exclude wallets from rewards



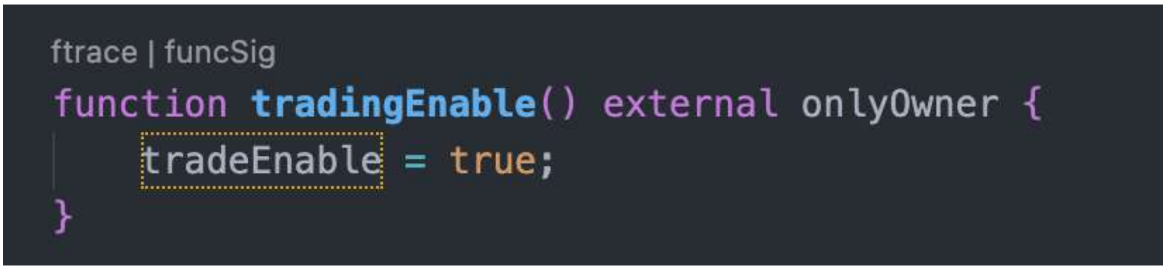
```
ftrace | funcSig
function excludeFromReward(address account) public onlyOwner {
    require(!_isExcluded[account], "Account is already excluded");

    if (_rOwned[account] > 0) {
        _tOwned[account] = tokenFromReflection(_rOwned[account]);
    }
    _isExcluded[account] = true;
    _excluded.push(account);
}

ftrace | funcSig
function includeInReward(address account) external onlyOwner {
    require(_isExcluded[account], "Account is already excluded");

    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account) {
            _excluded[i] = _excluded[_excluded.length - 1];
            _tOwned[account] = 0;
            _isExcluded[account] = false;
            _excluded.pop();
            break;
        }
    }
}
```

❖ The owner can change all fee receiver wallets



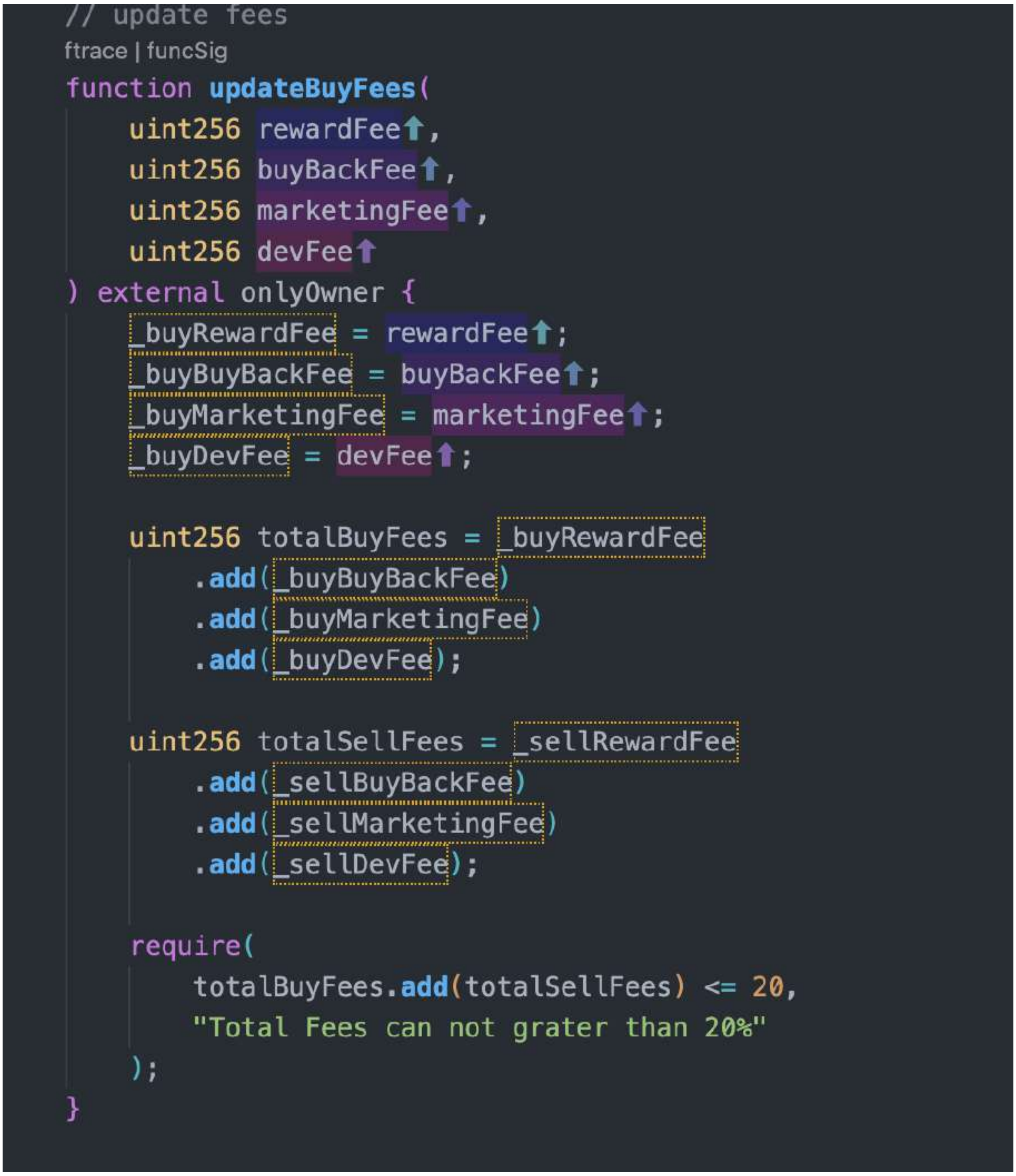
```
ftrace | funcSig
function setMarketingWallet(address marketingWallet) external onlyOwner {
    _marketingWallet = marketingWallet;
}

ftrace | funcSig
function setDevWallet(address newWallet) external onlyOwner {
    _devWallet = newWallet;
}

ftrace | funcSig
function setBuyBackWallet(address newWallet) external onlyOwner {
    buyBackWallet = newWallet;
}
```

❖ The owner can enable trading/once enabled cannot disable again



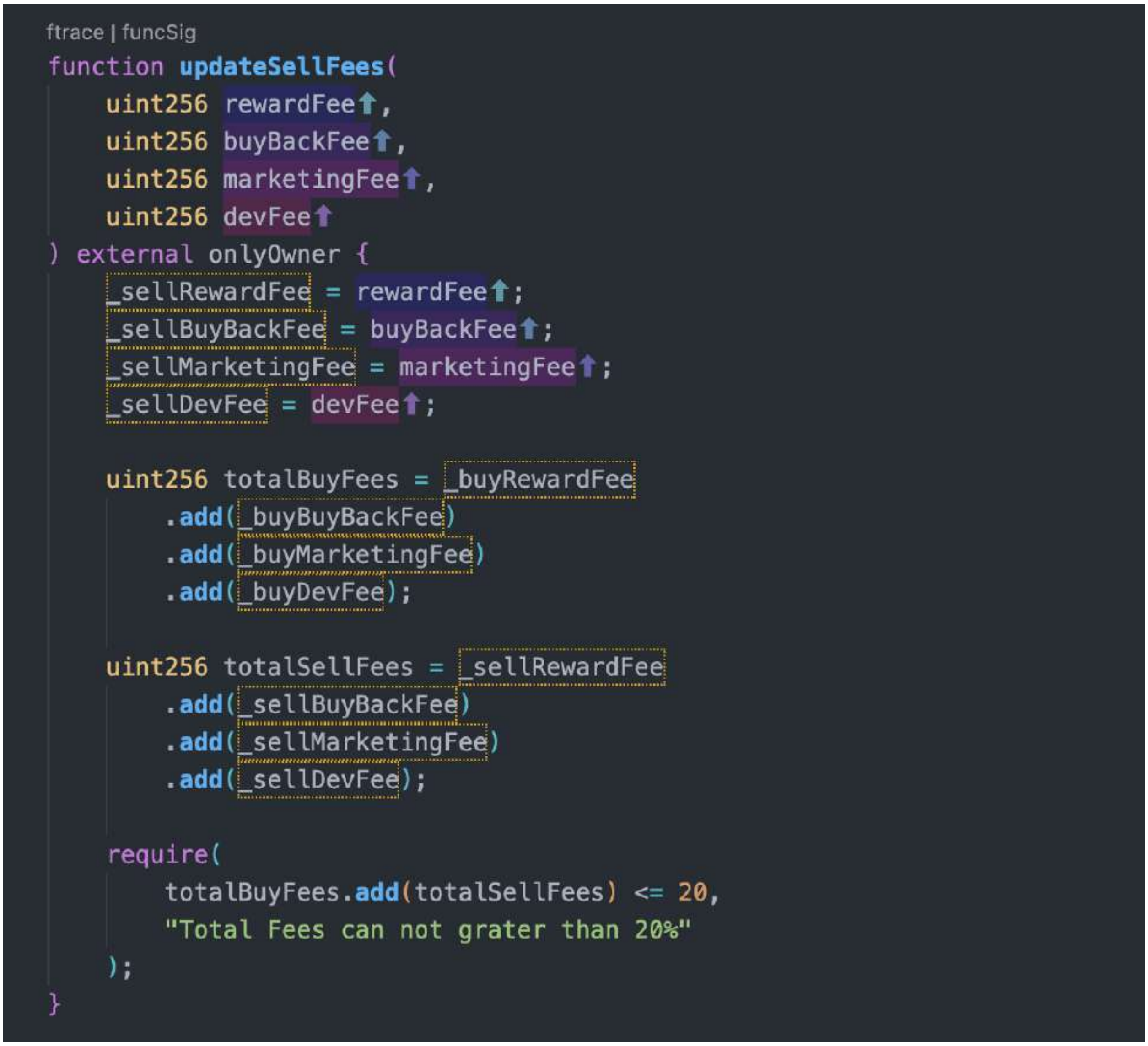
```
ftrace | funcSig
function tradingEnable() external onlyOwner {
    tradeEnable = true;
}
```

❖ The owner can change all buy fees, total fees max up to 20%



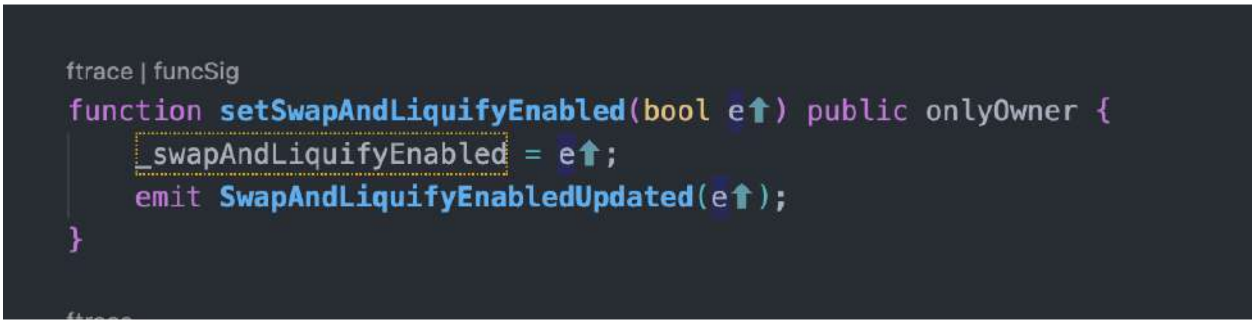
```
// update fees
ftrace | funcSig
function updateBuyFees(
    uint256 rewardFee,
    uint256 buyBackFee,
    uint256 marketingFee,
    uint256 devFee
) external onlyOwner {
    _buyRewardFee = rewardFee;
    _buyBuyBackFee = buyBackFee;
    _buyMarketingFee = marketingFee;
    _buyDevFee = devFee;

    uint256 totalBuyFees = _buyRewardFee
        .add(_buyBuyBackFee)
        .add(_buyMarketingFee)
        .add(_buyDevFee);

    uint256 totalSellFees = _sellRewardFee
        .add(_sellBuyBackFee)
        .add(_sellMarketingFee)
        .add(_sellDevFee);

    require(
        totalBuyFees.add(totalSellFees) <= 20,
        "Total Fees can not grater than 20%"
    );
}
```

- ❖ The owner can change all sell fees, total fees max up to 20%



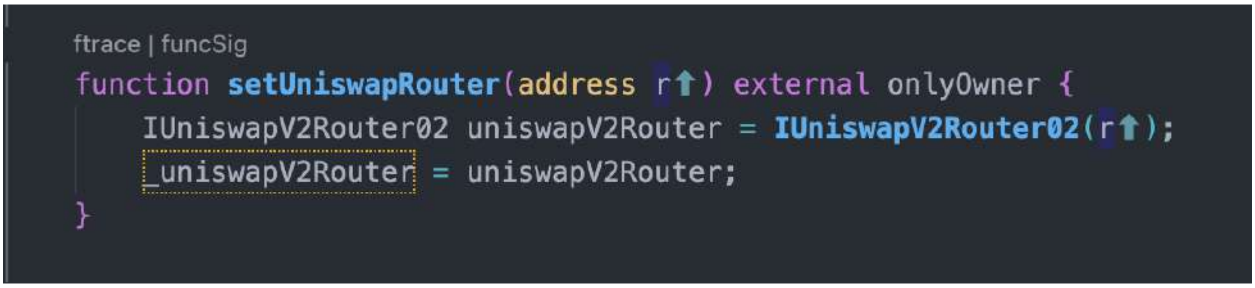
```
ftrace | funcSig
function updateSellFees(
    uint256 rewardFee⬆,
    uint256 buyBackFee⬆,
    uint256 marketingFee⬆,
    uint256 devFee⬆
) external onlyOwner {
    _sellRewardFee = rewardFee⬆;
    _sellBuyBackFee = buyBackFee⬆;
    _sellMarketingFee = marketingFee⬆;
    _sellDevFee = devFee⬆;

    uint256 totalBuyFees = _buyRewardFee
        .add(_buyBuyBackFee)
        .add(_buyMarketingFee)
        .add(_buyDevFee);

    uint256 totalSellFees = _sellRewardFee
        .add(_sellBuyBackFee)
        .add(_sellMarketingFee)
        .add(_sellDevFee);

    require(
        totalBuyFees.add(totalSellFees) <= 20,
        "Total Fees can not grater than 20%"
    );
}
```

- ❖ The owner can enable/disable swapping



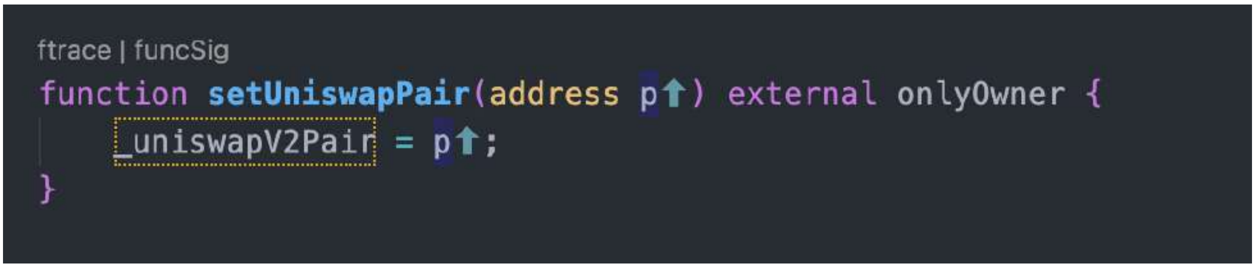
```
ftrace | funcSig
function setSwapAndLiquifyEnabled(bool e⬆) public onlyOwner {
    _swapAndLiquifyEnabled = e⬆;
    emit SwapAndLiquifyEnabledUpdated(e⬆);
}
```

- The owner can change router address



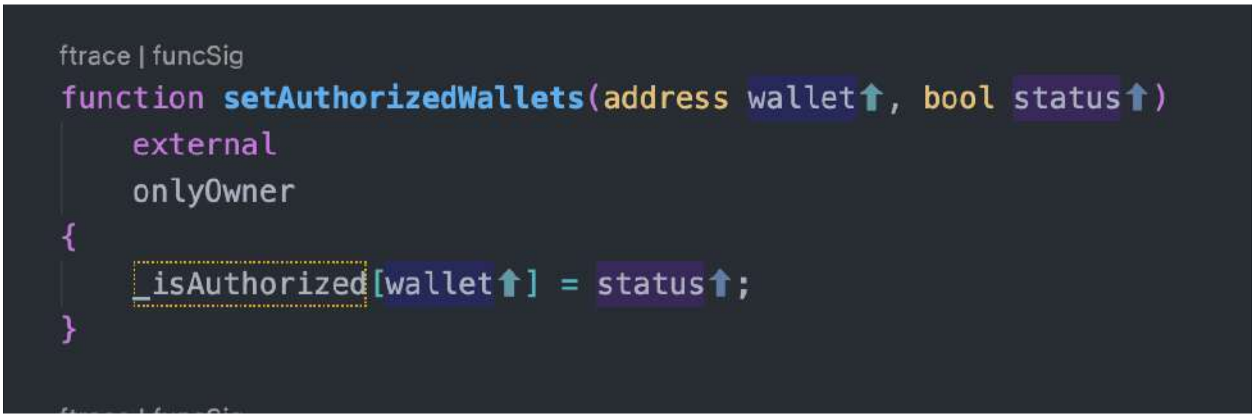
```
ftrace | funcSig
function setUniswapRouter(address r) external onlyOwner {
    IUniswapV2Router02 uniswapV2Router = IUniswapV2Router02(r);
    _uniswapV2Router = uniswapV2Router;
}
```

- The owner can change pair address



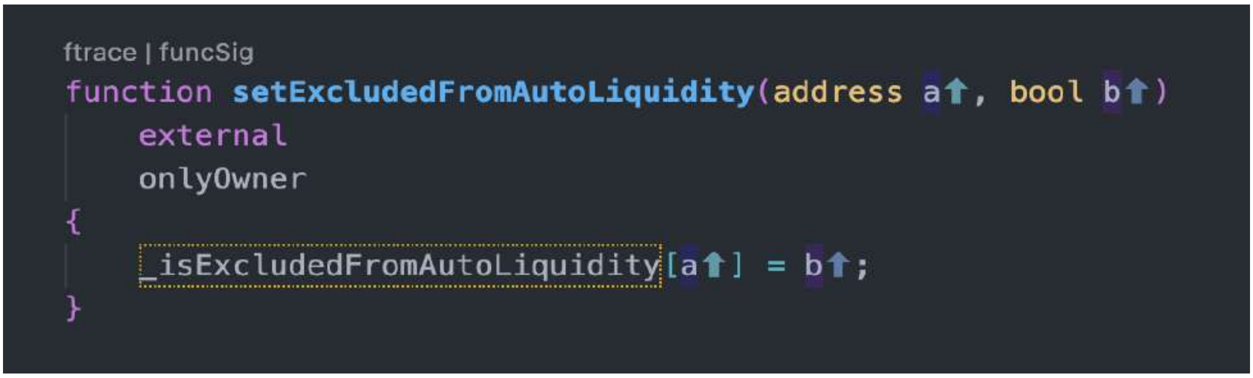
```
ftrace | funcSig
function setUniswapPair(address p) external onlyOwner {
    _uniswapV2Pair = p;
}
```

- Owner can add/remove authorize wallets



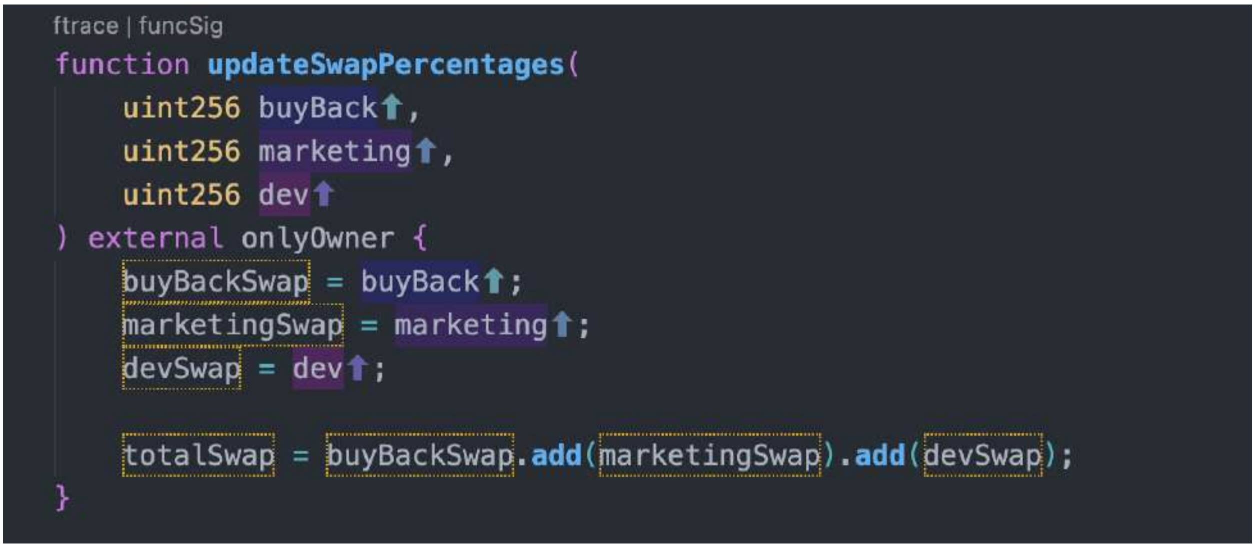
```
ftrace | funcSig
function setAuthorizedWallets(address wallet, bool status)
    external
    onlyOwner
{
    _isAuthorized[wallet] = status;
}
```

- The owner can exclude/include wallets from swapping



```
ftrace | funcSig
function setExcludedFromAutoLiquidity(address a, bool b)
    external
    onlyOwner
{
    _isExcludedFromAutoLiquidity[a] = b;
}
```

- The owner can change all swap ratio



```
ftrace | funcSig
function updateSwapPercentages(
        uint256 buyBack,
        uint256 marketing,
        uint256 dev
) external onlyOwner {
        buyBackSwap = buyBack;
        marketingSwap = marketing;
        devSwap = dev;

        totalSwap = buyBackSwap.add(marketingSwap).add(devSwap);
}
```

Audit conclusion

RugFreeCoins team has performed in-depth testings, line-by-line manual code review, and automated audit of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, manipulations, and hacks. According to the smart contract audit.

Smart contract functional Status: **PASS**

Number of risk issues: **0**

Solidity code functional issue level: **PASS**

Number of owner privileges: **11**

Centralization risk correlated to the active owner: **LOW**