



# **Futurama Inu Token**

RugfreeCoins Verified on November 23rd, 2023

#### **Overview**

- No mint function found, the owner cannot mint tokens after initial deployment.
- The owner can't set a max transaction limit
- The owner can't pause trading once it's enabled
- X The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.
- The owner can't change fees.
- The owner can't blacklist wallets.
- The owner can't set a max wallet limit
- The owner can't claim the contract's balance of its own token.

#### **!** HIGH SEVERITY ISSUES

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

```
function enableTrading() external onlyOwner {
    require(!tradingEnabled, "Trading is already enabled");
    tradingEnabled = true;
    startTradingBlock = block.number;
}
```

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#### **Audit details**



**Audited project** 

Futurama Inu Token



**Contract Address** 

0x28854310f121caff7302d03F2A017cab38DA5b04



**Client contact** 

Futurama Inu Token Team



Blockchain

Binance Smart chain



**Project website** 

https://futuramainu.fun/

#### **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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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

#### **Background**

RugfreeCoins was commissioned by the Futurama Inu Token Team to perform an audit of the smart contract.

#### https://bscscan.com/address/0x28854310f121caff7302d03F2A017cab38DA5b04#code

This audit focuses on verifying 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 smart contract's security posture by remediating the identified issues.

### **Tokenomics**

#### ▲ 5% tax when buying & selling

4% of trade goes to the marketing wallet in BNB 1% trade is distributed among holders as rewards in USDT.

### Target market and the concept

- 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 interested in taking part in the Futurama Inu token ecosystem.
- Anyone who's interested in taking part in the future plans of Futurama Inu Token.
- Anyone who's interested in making financial transactions with any other party using Futurama Inu Token as the currency.

# Potential to grow with score points

→ Project efficiency	8 / 10
* Project uniqueness	<b>7</b> / 10
Information quality	8 / 10
Service quality	8 / 10
System quality	8 / 10
Impact on the community	8 / 10
impact on the business	9 / 10
Preparing for the future	8 / 10
☐ Smart contract security	9 / 10
X Smart contract functionality assessment	9 / 10
▼ Total Score	<b>8.2</b> / 10

### **Contract details**

Token contract details for 23rd of November 2023

Contract name	Futurama Inu
Contract address	0x28854310f121caff7302d03F2A017cab38DA5b04
Token supply	1,000,000,000
Token ticker	FUTURAMA
Decimals	18
Token holders	1
Transaction count	1
Contract deployer address	0x065d8D60d280BdB20c11229e0e402E51342f3Bc2
Contract's current owner address	0x86dB9BD77c8541338eC5fb90AB480c2b05e4Df03
Marketing wallet	0x462fD9455a9480e1Ddeaa1Ae3B51Acb6043aBF9C
Dividend Tracker	0x065d8D60d280BdB20c11229e0e402E51342f3Bc2

# **Contract code function details**

Nº	Category	Item	Result
		ERC20 Token standards	PASS +
		Compile errors	PASS +
		Compiler version security	PASS -
		Visibility specifiers	PASS -
		Gas consumption	PASS -
1	Coding conventions	SafeMath features	PASS +
		Fallback usage	PASS +
		tx.origin usage	PASS +
		Deprecated items	PASS -
		Redundant code	PASS -
		Overriding variables	PASS +
		Authorization of function call	PASS +
2	Function call audit	Low level function (call/delegate call) security	PASS +
_	runction can addit	Returned value security	PASS +
		Self destruct function security	PASS +
		Access control of owners	HIGH •
3	Business security & centralisation	Business logics	PASS +
		Business implementation	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 (PRI	NG)	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	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
SafeMath	Library			
L	tryAdd	Internal 🔒		
L	trySub	Internal 🔒		
L	tryMul	Internal 🔒		
L	tryDiv	Internal 🔒		
L	tryMod	Internal 🔒		
L	add	Internal 🔒		
L	sub	Internal 🔒		
L	mul	Internal 🔒		
L	div	Internal 🔒		
L	mod	Internal 🔒		
L	sub	Internal 🔒		
L	div	Internal 🔒		
L	mod	Internal 🔒		
'				
Context	Implementation			
L	_msgSender	Internal 🔒		
L	_msgData	Internal 🔒		
Ownable	Implementation	Context		
L		Public !		NO !

L	owner	Public	NO !
L	_checkOwner	Internal 🔒	
L	renounceOwnership	Public !	onlyOwne
L	transferOwnership	Public !	onlyOwne
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 !
			'
IERC20Metadata	Interface	IERC20	
L	name	External !	NO !
L	symbol	External !	NO !
L	decimals	External !	NO !
ERC20	Implementation	Context, IERC20, IERC20 Metadata	
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	approve	Public !	NO !
L	transferFrom	Public	NO !
L			
	increaseAllowance	Public	NO !
L	decreaseAllowance	Public	NO !
L	_transfer	Internal 🔒	
L	_mint	Internal 🔒	
L	_burn	Internal 🔒	
L	_approve	Internal 🔒	
L	_spendAllowance	Internal 🔒	
L	_beforeTokenTransfer	Internal 🔒	
L	_afterTokenTransfer	Internal 🔒	
			1
SafeMathInt	Library		
L	mul	Internal 🔒	
L	div	Internal 🔒	
L	sub	Internal 🔒	
L	add	Internal 🔒	
L	abs	Internal 🔒	
L	toUint256Safe	Internal 🔒	
SafeMathUint	Library		
L	toInt256Safe	Internal 🔒	
IterableMapping	Library		
L	get	Public !	NO !
L	getIndexOfKey	Public !	NO !
L	getKeyAtIndex	Public !	NO !
L	size	Public !	NO !
L	set	Public	NO !

L	remove	Public	NO !
UniswapV2Factory	Interface		
L	feeTo	External	NO !
L	feeToSetter	External	NO !
L	getPair	External	NO !
L	allPairs	External !	NO !
L	allPairsLength	External !	NO !
L	createPair	External !	NO !
L	setFeeTo	External !	NO !
L	setFeeToSetter	External !	NO !
IUniswapV2Pair	Interface		
L	name	External	NO !
L	symbol	External	NO !
L	decimals	External !	NO !
L	totalSupply	External !	NO !
L	balanceOf	External !	NO !
L	allowance	External	NO !
L	approve	External	NO !
L	transfer	External	NO !
L	transferFrom	External	NO !
L	DOMAIN_SEPARATOR	External	NO !
L	PERMIT_TYPEHASH	External	NO !
L	nonces	External	NO !
L	permit	External !	NO !
L	MINIMUM_LIQUIDITY	External !	NO !
L	factory	External !	NO !
L	token0	External	NO !

L	token1	External		NO !
L	getReserves	External		NO !
L	price0CumulativeLast	External		NO !
L	price1CumulativeLast	External !		NO !
L	kLast	External		NO !
L	mint	External		NO !
L	burn	External		NO !
L	swap	External		NO !
L	skim	External		NO !
L	sync	External		NO !
L	initialize	External		NO !
IUniswapV2 Router01	Interface			
L	factory	External		NO !
L	WETH	External		NO !
L	addLiquidity	External		NO !
L	addLiquidityETH	External	(\$	NO !
L	removeLiquidity	External		NO !
L	removeLiquidityETH	External		NO !
L	removeLiquidityWithPermit	External !		NO !
L	removeLiquidityETHWithPermit	External !		NO !
L	' '			
	swapExactTokensForTokens	External !		NO !
L		External !	•	NO !
L L	swapExactTokensForTokens		• • • • • • • • • • • • • • • • • • •	
	swapExactTokensForTokens swapTokensForExactTokens	External !		NO !
L	swapExactTokensForTokens swapTokensForExactTokens swapExactETHForTokens	External !		NO !
L L	swapExactTokensForTokens swapTokensForExactTokens swapExactETHForTokens swapTokensForExactETH	External External		NO!
L L L	swapExactTokensForTokens swapTokensForExactTokens swapExactETHForTokens swapTokensForExactETH swapExactTokensForETH	External !  External !  External !  External !	•	NO! NO! NO!

L	getAmountIn	External		NO !
L	getAmountsOut	External !		NO !
L	getAmountsIn	External		NO !
IUniswapV2 Router02	Interface	IUniswapV2 Router01		
L	removeLiquidityETHSupportingFeeO nTransferTokens	External !	•	NO !
L	removeLiquidityETHWithPermitSupp ortingFeeOnTransferTokens	External		NO !
L	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	•	NO !
L	swapExactETHForTokensSupporting FeeOnTransferTokens	External	<b>S</b>	NO !
L	swapExactTokensForETHSupporting FeeOnTransferTokens	External		NO !
DividendPaying TokenInterface	Interface			
L	dividendOf	External !		NO !
L	withdrawDividend	External !	•	NO !
DividendPaying TokenOptional Interface	Interface			
L	withdrawableDividendOf	External !		NO !
L	withdrawnDividendOf	External !		NO !
L	accumulativeDividendOf	External !		NO !
Divides dDevises	lumban autation	FDCCC		
DividendPaying Token	Implementation	ERC20, Ownable, Dividend PayingToken Interface, Dividend PayingToken Optional		

L		Public		ERC20
L	distributeDividends	Public !		onlyOwner
L	withdrawDividend	Public !		NO !
L	_withdrawDividendOfUser	Internal 🔒		
L	dividendOf	Public !		NO !
L	withdrawableDividendOf	Public !		NO !
L	withdrawnDividendOf	Public !		NO !
L	accumulativeDividendOf	Public !		NO !
L	_transfer	Internal 🔒		
L	_mint	Internal 🔒		
L	_burn	Internal 🔒		
L	_setBalance	Internal 🔒		
DividendTracker	Implementation	Ownable, Dividend PayingToken		
L		Public !		Dividend Paying Token
L	_transfer	Internal 🔒		
L	withdrawDividend	Public !		NO !
L	updateMinimumTokenBalanceForDiv idends	External !		onlyOwne
L	excludeFromDividends	External		onlyOwne
				onlyOwne
L	updateClaimWait	External		,
L	updateClaimWait setLastProcessedIndex	External External	•	
	·	•	•	
L	setLastProcessedIndex	External !	•	onlyOwne
L L	setLastProcessedIndex getLastProcessedIndex	External External	•	onlyOwne
L L	setLastProcessedIndex  getLastProcessedIndex  getNumberOfTokenHolders	External External		onlyOwne  NO !  NO !
L L	setLastProcessedIndex  getLastProcessedIndex  getNumberOfTokenHolders  getAccount	External !  External !  External !  Public !		onlyOwne NO ! NO ! NO !

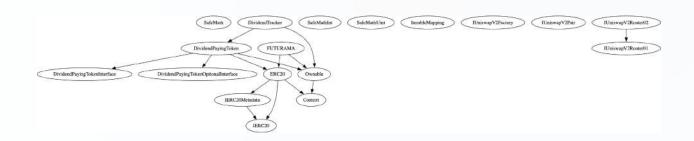
L	process	Public		NO !
L	processAccount	Public !	•	onlyOwn
FUTURAMA	Implementation	ERC20, Ownable		
L		Public !	<b>(\$</b>	ERC20
L		External !	<b>S</b>	NO !
L	withdrawStuckTokens	External !		onlyOwne
L	withdrawStuckETH	External !		onlyOwne
L	isContract	Internal 🔒		
L	_setAutomatedMarketMakerPair	Private 🔐		
L	updateBuyFees	External !		onlyOwne
L	updateSellFees	External !		onlyOwne
L	setWhitelistStatus	External !		onlyOwne
L	iswhitelisted	Public !		NO !
L	setmarketingWallet	External !		onlyOwne
L	enableTrading	External !		onlyOwne
L	_transfer	Internal 🔒		
L	swapAndSendDividends	Private 🔐		
L	setSwapTokensAtAmount	External !		onlyOwne
L	updateGasForProcessing	Public !		onlyOwne
L	updateMinimumBalanceForDividend s	External		onlyOwne
L	updateClaimWait	External !		onlyOwne
L	getClaimWait	External !		NO !
L	getTotalDividendsDistributed	External !		NO !
L	withdrawableDividendOf	Public !		NO !
L	dividendTokenBalanceOf	Public !		NO !
L	totalRewardsEarned	Public !		NO !
L	excludeFromDividends	External		onlyOwne

L	getAccountDividendsInfo	External		NO !
L	getAccountDividendsInfoAtIndex	External		NO !
L	processDividendTracker	External	•	NO !
L	claim	External		NO !
L	claimAddress	External !		onlyOwner
L	getLastProcessedIndex	External		NO !
L	setLastProcessedIndex	External !		onlyOwner
L	getNumberOfDividendTokenHolders	External !		NO !

#### Legend

Symbol	Symbol Meaning	
	Function can modify state	
<b>(5</b>	Function is payable	

# **Inheritance Hierarchy**



#### **Security issue checking status**

High severity issues

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

```
function enableTrading() external onlyOwner {
    require(!tradingEnabled, "Trading is already enabled");
    tradingEnabled = true;
    startTradingBlock = block.number;
}
```

Medium severity issues

No medium severity issues found

Low severity issues

No low-severity issues found

#### **Owner privileges**

 Owner can withdraw any bep20 tokens from the contract, can not withdraw native tokens

Owner can withdraw bnb from the contract

```
function withdrawStuckETH() external onlyOwner {
    (bool success, ) = address(msg.sender).call{
        value: address(this).balance
    }("");
    require(success, "transferring ETH failed");
}
```

Owner can change buy fees total buy fees up-to 10%

```
function updateBuyFees( uint256 _marketingFeeOnBuy, uint256 _rewardsFeeOnBuy)
external onlyOwner {

    marketingFeeOnBuy = _marketingFeeOnBuy;
    rewardsFeeOnBuy = _rewardsFeeOnBuy;

    totalBuyFee = marketingFeeOnBuy + rewardsFeeOnBuy;

    require(totalBuyFee <= 10, "Buy fee cannot be more than 10%");
    emit BuyFeesUpdated(totalBuyFee);
}</pre>
```

❖ Owner can change sell fees,totalsell fees up-to 10%

```
function updateSellFees(uint256 _marketingFeeOnSell, uint256 _rewardsFeeOnSell)
external onlyOwner {
    marketingFeeOnSell = _marketingFeeOnSell;
    rewardsFeeOnSell = _rewardsFeeOnSell;

    totalSellFee = marketingFeeOnSell + rewardsFeeOnSell;

    require(totalSellFee <= 10, "Sell fee cannot be more than 10%");
    emit SellFeesUpdated(totalSellFee);
}</pre>
```

Owner can whitelist wallets from the contract

```
function setWhitelistStatus(
   address _wallet,
   bool _status
) external onlyOwner {
   whitelisted[_wallet] = _status;
   emit Whitelist(_wallet, _status);
}
```

Owner can change marketing wallet address

```
function setmarketingWallet(address _newmarketing) external onlyOwner {
    require(
        _newmarketing != address(0),
        "can not set marketing to dead wallet"
    );
    marketingWallet = _newmarketing;
    emit marketingWalletChanged(_newmarketing);
}
```

❖ Owner can enable trading, once enabled can not disable again

```
function enableTrading() external onlyOwner {
    require(!tradingEnabled, "Trading is already enabled");
    tradingEnabled = true;
    startTradingBlock = block.number;
}
```

❖ Owner can change swap point minimum up-to 0.001%

```
function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner{
    require(newAmount > totalSupply() / 100_000, "SwapTokensAtAmount must be
greater than 0.001% of total supply");
    swapTokensAtAmount = newAmount;
}
```

#### **Audit conclusion**

RugFreeCoins team has performed in-depth testing, 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.

