



**TechRate**  
AUDIT COMPANY

# Smart Contract Security Audit

TechRate

November, 2021

# Audit Details



Audited project

**First Inu**



Deployer address

**0x71930bf7d5b559bfc0105a4d801b2b4b07131cd6**



Client contacts:

**First Inu team**



Blockchain

**Ethereum**



Project website:

<https://finu.co/>

# 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 below 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

TechRate was commissioned by First Inu to perform an audit of smart contracts:

<https://etherscan.io/address/0x1bdc5e5aa2749b4934c33441e050b8854b77a331#code>

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

# Contracts Details

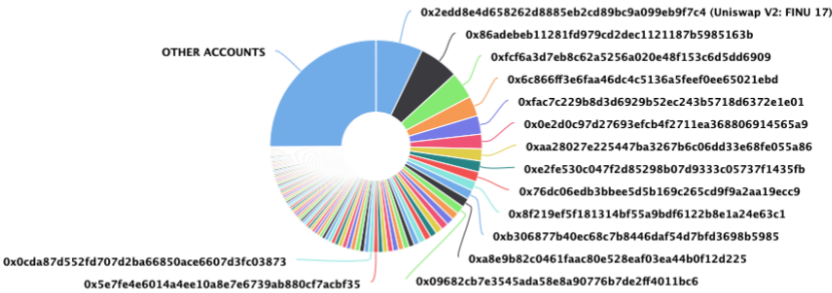
## Token contract details for 05.11.2021

Contract name	First Inu
Contract address	0x1bdC5e5aA2749B4934C33441e050b8854B77a331
Total supply	1,000,000,000,000,000,000
Token ticker	FINU
Decimals	9
Token holders	1,285
Transactions count	3,124
Top 100 holders dominance	74.93%
Contract deployer address	0x71930bf7d5b559bfc0105a4d801b2b4b07131cd6
Contract's current owner address	0x00

# First Inu Token Distribution

The top 100 holders collectively own 74.93% (749,254,866,224,934,000.00 Tokens) of First Inu | Token Total Supply: 1,000,000,000,000,000.00 Token | Total Token Holders: 1,285

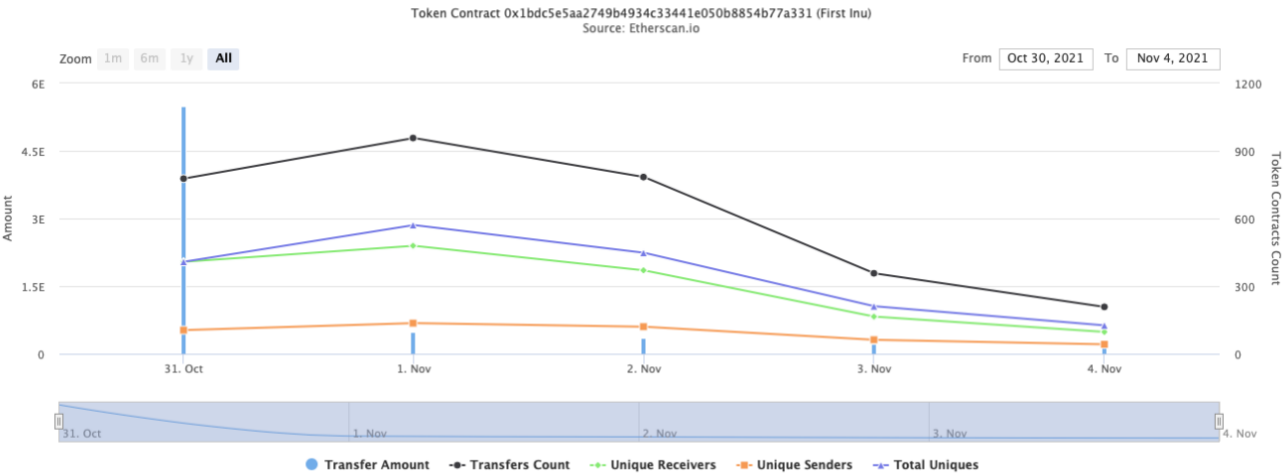
First Inu Top 100 Token Holders  
Source: Etherscan.io



(A total of 749,254,866,224,934,000.00 tokens held by the top 100 accounts from the total supply of 1,000,000,000,000,000.00 token)



# First Inu Contract Interaction Details

Time Series: Token Contract Overview | Sun 31, Oct 2021 - Thu 4, Nov 2021





# First Inu Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	 Uniswap V2: FINU 17	71,825,653,628,357,100.36230944	7.1826%
2	0x86adebe11281fd979cd2dec1121187b5985163b	60,363,591,461,206,900.276966816	6.0364%
3	0xfcf6a3d7eb8c62a5256a020e48f153c6d5dd6909	40,769,601,764,873,000.63322074	4.0770%
4	0x6c866ff3e6faa46dc4c5136a5fef0ee65021ebd	30,535,638,919,542,700.512682678	3.0536%
5	0xfac7c229b8d3d6929b52ec243b5718d6372e1e01	28,332,264,498,974,100.512033436	2.8332%
6	0x0e2d0c97d27693efcb4f2711ea368806914565a9	22,321,295,374,098,800.70594161	2.2321%
7	0xaa28027e225447ba3267b6c06dd33e68fe055a86	18,492,684,399,351,200.131625616	1.8493%
8	 0xe2fe530c047f2d85298b07d9333c05737f1435fb	16,634,800,205,672,800.591875762	1.6635%
9	0x76dc06edb3bbe5d5b169c265cd9f9a2aa19ecc9	15,242,920,382,485,400.886316396	1.5243%
10	0x8f219ef5f181314bf55a9bdf6122b8e1a24e63c1	14,388,918,977,219,400.40313886	1.4389%

# Contract functions details

- + Context
  - [Int] \_msgSender
- + [Int] IERC20
  - [Ext] totalSupply
  - [Ext] balanceOf
  - [Ext] transfer #
  - [Ext] allowance
  - [Ext] approve #
  - [Ext] transferFrom #
- + [Lib] SafeMath
  - [Int] add
  - [Int] sub
  - [Int] sub
  - [Int] mul
  - [Int] div
  - [Int] div
- + Ownable (Context)
  - [Pub] <Constructor> #
  - [Pub] owner
  - [Pub] renounceOwnership #
    - modifiers: onlyOwner
- + [Int] IUniswapV2Factory
  - [Ext] createPair #
- + [Int] IUniswapV2Router02
  - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
  - [Ext] factory
  - [Ext] WETH
  - [Ext] addLiquidityETH (\$)
- + FINU (Context, IERC20, Ownable)
  - [Pub] <Constructor> #
  - [Pub] name
  - [Pub] symbol
  - [Pub] decimals
  - [Pub] totalSupply
  - [Pub] balanceOf
  - [Pub] transfer #
  - [Pub] allowance
  - [Pub] approve #
  - [Pub] transferFrom #
  - [Ext] setCooldownEnabled #
    - modifiers: onlyOwner
  - [Prv] tokenFromReflection
  - [Prv] \_approve #
  - [Prv] \_transfer #
  - [Prv] swapTokensForEth #



- modifiers: lockTheSwap
- [Prv] sendETHToFee #
- [Ext] openTrading #
  - modifiers: onlyOwner
- [Pub] setBots #
  - modifiers: onlyOwner
- [Pub] delBot #
  - modifiers: onlyOwner
- [Prv] \_tokenTransfer #
- [Prv] \_transferStandard #
- [Prv] \_takeTeam #
- [Prv] \_reflectFee #
- [Ext] <Fallback> (\$)
- [Ext] manualswap #
- [Ext] manualsend #
- [Prv] \_getValues
- [Prv] \_getTValues
- [Prv] \_getRValues
- [Prv] \_getRate
- [Prv] \_getCurrentSupply

(\$) = payable function

# = non-constant function

# Issues Checking Status

Issue description		Checking status
1.	Compiler errors.	Passed
2.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3.	Possible delays in data delivery.	Passed
4.	Oracle calls.	Passed
5.	Front running.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow.	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Passed
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	The impact of the exchange rate on the logic.	Passed
13.	Private user data leaks.	Passed
14.	Malicious Event log.	Passed
15.	Scoping and Declarations.	Passed
16.	Uninitialized storage pointers.	Passed
17.	Arithmetic accuracy.	Passed
18.	Design Logic.	Passed
19.	Cross-function race conditions.	Passed
20.	Safe Open Zeppelin contracts implementation and usage.	Passed
21.	Fallback function security.	Passed

# Security Issues

## ✓ High Severity Issues

No high severity issues found.

## ✓ Medium Severity Issues

No medium severity issues found.

## ✓ Low Severity Issues

No low severity issues found.

## Owner privileges (In the period when the owner is not renounced)

- Owner can enable cooldown (user to user trading with time offset).

```
function setCooldownEnabled(bool onoff) external onlyOwner() {
    cooldownEnabled = onoff;
}
```

- Owner can open swap trading.

```
function openTrading() external onlyOwner() {
    require(!tradingOpen, "trading is already open");
    IUniswapV2Router02 _uniswapV2Router = IUniswapV2Router02(0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D);
    uniswapV2Router = _uniswapV2Router;
    _approve(address(this), address(uniswapV2Router), _tTotal);
    uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory()).createPair(address(this), _uniswapV2Router.WETH());
    uniswapV2Router.addLiquidityETH{value: address(this).balance}(address(this), balanceOf(address(this)), 0, 0, owner(), block.timestamp);
    swapEnabled = true;
    cooldownEnabled = true;
    _maxTxAmount = 2500000000000000 * 10**9;
    tradingOpen = true;
    IERC20(uniswapV2Pair).approve(address(uniswapV2Router), type(uint).max);
}
```

- Owner can add and remove bots (no transferring between this addresses).

```
function setBots(address[] memory bots_) public onlyOwner {
    for (uint i = 0; i < bots_.length; i++) {
        bots[bots_[i]] = true;
    }
}

function delBot(address notbot) public onlyOwner {
    bots[notbot] = false;
}
```

# Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details provided by the team:

<https://app.unicrypt.network/amm/uni-v2/pair/0x2edd8e4d658262d8885eb2cd89bc9a099eb9f7c4>

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***TechRate note:***

***Please check the disclaimer above and note, the audit makes no statements or warranties on 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 Owner.***