



Building the Futuristic **Blockchain** Ecosystem

# SECURITY AUDIT REPORT

## PEPE Inu

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# OVERVIEW

The Expelee team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analysed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks. According to the smart contract audit:

<b>Audit Result</b>	<b>Passed</b>
<b>KYC Verification</b>	<b>Done</b>
<b>Audit Date</b>	<b>12 May 2023</b>

# CONTRACT DETAILS

Token Name: PEPE Inu

Symbol: \$pepeinu

Network: Binance smart chain

Language: Solidity

Contract Address: --

Total Supply: 420,690,000,000,000

Contract SHA-256 Checksum: -  
d3060941a078cd639f714719c4b03dbffadb5975

Owner's Wallet: --

Deployer's Wallet: --

# OWNER PRIVILEGES

- Contract owner is not able to set buy/sell/transfer fees
- Contract owner is not able to blacklist an arbitrary wallet
- Contract owner is not able to set limit for buy/sell/transfer/holding amounts
- Contract owner is not able to mint new tokens
- Contract owner is not able to disable trades
- **Contract owner must enable trades for holders manually**

# AUDIT METHODOLOGY

## Audit Details

Our comprehensive audit report provides a full overview of the audited system's architecture, smart contract codebase, and details on any vulnerabilities found within the system.

## Audit Goals

The audit goal is to ensure that the project is built to protect investors and users, preventing potentially catastrophic vulnerabilities after launch, that lead to scams and rugpulls.

## Code Quality

Our analysis includes both automatic tests and manual code analysis for the following aspects:

- Exploits
- Back-doors
- Vulnerability
- Accuracy
- Readability

## Tools

- DE
- Open Zeppelin
- Code Analyzer
- Solidity Code
- Compiler
- Hardhat

# VULNERABILITY CHECKS

Design Logic	Passed
Compiler warnings	Passed
Private user data leaks	Passed
Timestamps dependence	Passed
Integer overflow and underflow	Passed
Race conditions & reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front Running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zepplin module	Passed

# RISK CLASSIFICATION

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Low Risk

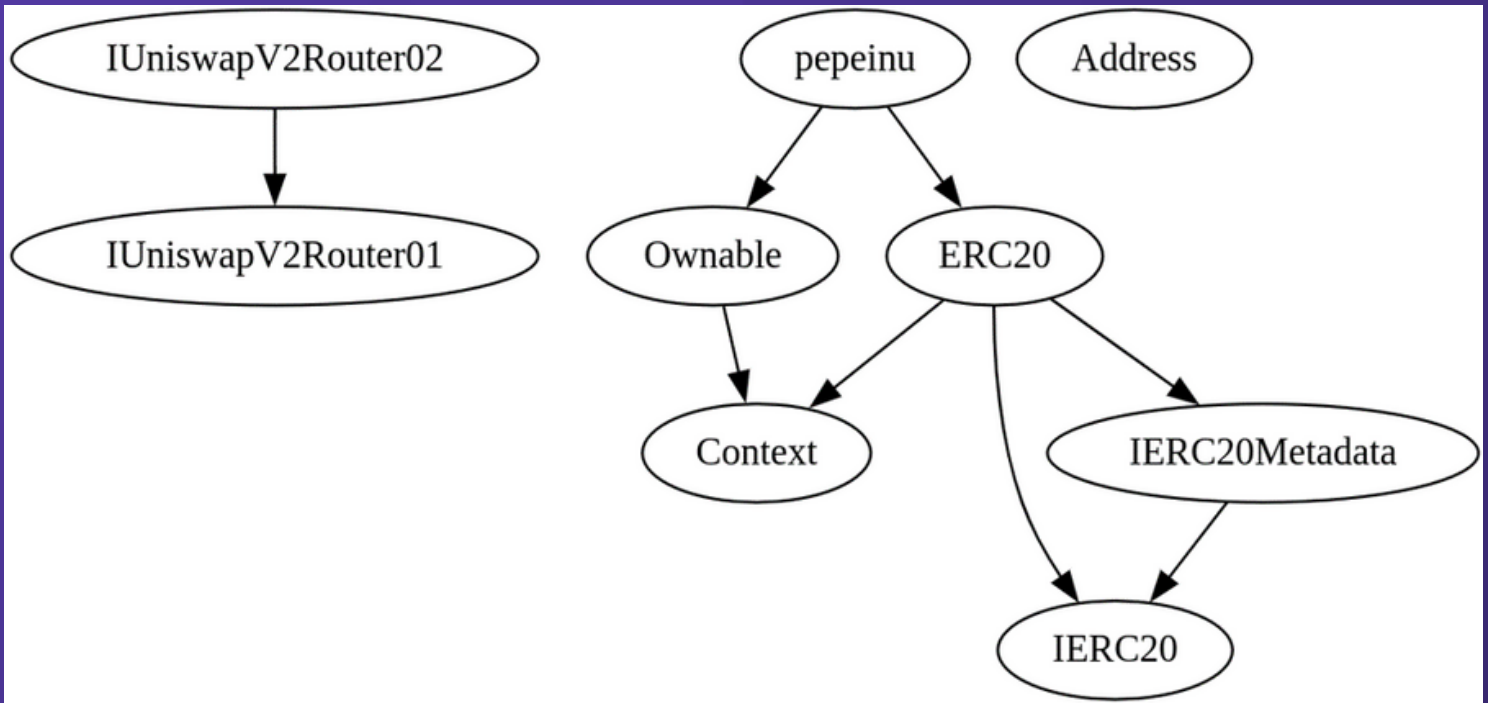
Issues on this level are minor details and warnings that can remain unfixed.

## Informational

Issues on this level are minor details and warnings that can remain unfixed.



# INHERITANCE TREES



# TESTNET VERSION

## Adding Liquidity ✓

Tx:

<https://testnet.bscscan.com/tx/0x34f01d9b63ff322201e5717bded087007470af8f2ac1020a04eeb5385a573b9c>

=====

## Buying from a fee excluded wallet ✓

Tx (0% tax):

<https://testnet.bscscan.com/tx/0x78a828c087783ebb3e0bb3624293948e28af67c66bcd3a473634e31232359ad>

=====

## Selling from a fee excluded wallet ✓

Tx (0% tax):

<https://testnet.bscscan.com/tx/0xfb862b1c8b3a1be7043ecc2b5e97ec5437062abf01533169262df8c9de096664>

=====

## Transferring using a fee excluded wallet ✓

Tx (0% tax):

<https://testnet.bscscan.com/tx/0xec990357b69b8664d4a61dd1ec7d0155fcd31f04e076a86086944b7977aa0b44>

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=====

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=====

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# FUNCTION DETAILS

Contract	Type	Bases			
└──	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
**IUniswapV2Factory**	Interface				
└ feeTo	External	!		NO	!
└ feeToSetter	External	!		NO	!
└ getPair	External	!		NO	!
└ allPairs	External	!		NO	!
└ allPairsLength	External	!		NO	!
└ createPair	External	!	●	NO	!
└ setFeeTo	External	!	●	NO	!
└ setFeeToSetter	External	!	●	NO	!
**IUniswapV2Pair**	Interface				
└ name	External	!		NO	!
└ symbol	External	!		NO	!
└ decimals	External	!		NO	!
└ totalSupply	External	!		NO	!
└ balanceOf	External	!		NO	!
└ allowance	External	!		NO	!
└ approve	External	!	●	NO	!
└ transfer	External	!	●	NO	!
└ transferFrom	External	!	●	NO	!
└ DOMAIN_SEPARATOR	External	!		NO	!
└ PERMIT_TYPEHASH	External	!		NO	!
└ nonces	External	!		NO	!
└ permit	External	!	●	NO	!
└ MINIMUM_LIQUIDITY	External	!		NO	!
└ factory	External	!		NO	!
└ token0	External	!		NO	!
└ token1	External	!		NO	!
└ getReserves	External	!		NO	!
└ price0CumulativeLast	External	!		NO	!
└ price1CumulativeLast	External	!		NO	!
└ kLast	External	!		NO	!
└ mint	External	!	●	NO	!
└ burn	External	!	●	NO	!
└ swap	External	!	●	NO	!
└ skim	External	!	●	NO	!
└ sync	External	!	●	NO	!
└ initialize	External	!	●	NO	!
**IUniswapV2Router01**	Interface				
└ factory	External	!		NO	!
└ WETH	External	!		NO	!

# FUNCTION DETAILS

```

| 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 | swapTokensForExactTokens | External | ! | ● | NO | ! |
| L | swapExactETHForTokens | External | ! | 🟢 | NO | ! |
| L | swapTokensForExactETH | External | ! | ● | NO | ! |
| L | swapExactTokensForETH | External | ! | ● | NO | ! |
| L | swapETHForExactTokens | External | ! | 🟢 | NO | ! |
| L | quote | External | ! | | NO | ! |
| L | getAmountOut | External | ! | | NO | ! |
| L | getAmountIn | External | ! | | NO | ! |
| L | getAmountsOut | External | ! | | NO | ! |
| L | getAmountsIn | External | ! | | NO | ! |
|||||
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
| L | removeLiquidityETHSupportingFeeOnTransferTokens | External | ! | ● | NO | ! |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | ! | ● | NO | ! |
|
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | ! | ● | NO | ! |
| L | swapExactETHForTokensSupportingFeeOnTransferTokens | External | ! | 🟢 | NO | ! |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External | ! | ● | NO | ! |
|||||
| **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 | ! |
|||||
| **Address** | Library | |||
| L | isContract | Internal | 🔒 | | |
| L | sendValue | Internal | 🔒 | ● | |
| L | functionCall | Internal | 🔒 | ● | |
| L | functionCall | Internal | 🔒 | ● | |
| L | functionCallWithValue | Internal | 🔒 | ● | |
| L | functionCallWithValue | Internal | 🔒 | ● | |

```



# FUNCTION DETAILS

```

| L | functionStaticCall | Internal | 🔒 | | |
| L | functionStaticCall | Internal | 🔒 | | |
| L | functionDelegateCall | Internal | 🔒 | ● | |
| L | functionDelegateCall | Internal | 🔒 | ● | |
| L | verifyCallResultFromTarget | Internal | 🔒 | | |
| L | verifyCallResult | Internal | 🔒 | | |
| L | _revert | Private | 🔒 | | |
|||||
| **Context** | Implementation | |||
| L | _msgSender | Internal | 🔒 | | |
| L | _msgData | Internal | 🔒 | | |
|||||
| **Ownable** | Implementation | Context |||
| L | <Constructor> | Public | ! | ● | NO ! |
| L | owner | Public | ! | | NO ! |
| L | renounceOwnership | Public | ! | ● | onlyOwner |
| L | transferOwnership | Public | ! | ● | onlyOwner |
|||||
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata |||
| L | <Constructor> | 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 | _transfer | Internal | 🔒 | ● | |
| L | _mint | Internal | 🔒 | ● | |
| L | _burn | Internal | 🔒 | ● | |
| L | _approve | Internal | 🔒 | ● | |
| L | _beforeTokenTransfer | Internal | 🔒 | ● | |
| L | _afterTokenTransfer | Internal | 🔒 | ● | |
|||||
| **pepeinu** | Implementation | ERC20, Ownable |||
| L | <Constructor> | Public | ! | ● | ERC20 |
| L | <Receive Ether> | External | ! | 🟢 | NO ! |
| L | excludeFromFees | External | ! | ● | onlyOwner |
| L | isExcludedFromFees | Public | ! | | NO ! |
| L | enableTrading | External | ! | ● | onlyOwner |
| L | _transfer | Internal | 🔒 | ● | |

```

# MANUAL REVIEW

## Severity Criteria

Expelee assesses the severity of disclosed vulnerabilities according to methodology based on OWASP standards.

Vulnerabilities are divided into three primary risk categories:

High

Medium

Low

High-level considerations for vulnerabilities span the following key areas when conducting assessments:

- Malicious input handling
- Escalation of privileges
- Arithmetic
- Gas use

Overall Risk Severity				
Impact	HIGH	Medium	High	Critical
	MEDIUM	Low	Medium	High
	LOW	Note	Low	Medium
		LOW	MEDIUM	HIGH
	Likelihood			

# FINDINGS

Findings	Severity	Found
High Risk	● High	1 (Resolved)
Medium Risk	● Medium	0
Low Risk	● Low	0
Suggestion & discussion	● Informational	0
Gas Optimizations	● Gas Opt.	0



# HIGH RISK FINDING

**Category:** Centralization

**Subject:** Enabling trades is not guaranteed

**Overview:** The owner of the contract must enable trades for public, otherwise no one would be able to buy/sell/transfer their tokens except whitelisted wallets.

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

## Suggestion

To mitigate this issue there are several options:

- Enable tradings before presale
- Transfer ownership to safu dev for initial days after presale

**Issue Status:** Not Resolved

# ABOUT EXPELEE

Expelee is a product-based aspirational Web3 start-up. Coping up with numerous solutions for blockchain security and constructing a Web3 ecosystem from deal making platform to developer hosting open platform, while also developing our own commercial and sustainable blockchain.

 [www.expelee.com](http://www.expelee.com)



expeleeofficial



expelee



Expelee



expelee



expelee\_official



expelee-co

# expelee

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# DISCLAIMER

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment. Team provides no guarantess against the sale of team tokens or the removal of liquidity by the project audited in this document.

Always do your own research and project yourselves from being scammed. The Expelee team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools.

Under no circumstances did Expelee receive a payment to manipulate those results or change the awarding badge that we will be adding in our website. Alway do your own research and protect yourselves from scams.

This document should not be presented as a reason to buy or not buy any particular token. The Expelee team disclaims any liability for the resulting losses.

The logo for Expelee, featuring the word "expelee" in a stylized font. The "ex" is in white, and "pelee" is in orange. The letters are bold and modern.

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