



Building the Futuristic **Blockchain Ecosystem**

# SECURITY AUDIT REPORT



PEPEF

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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>-</b>
<b>Audit Date</b>	<b>26 May 2023</b>

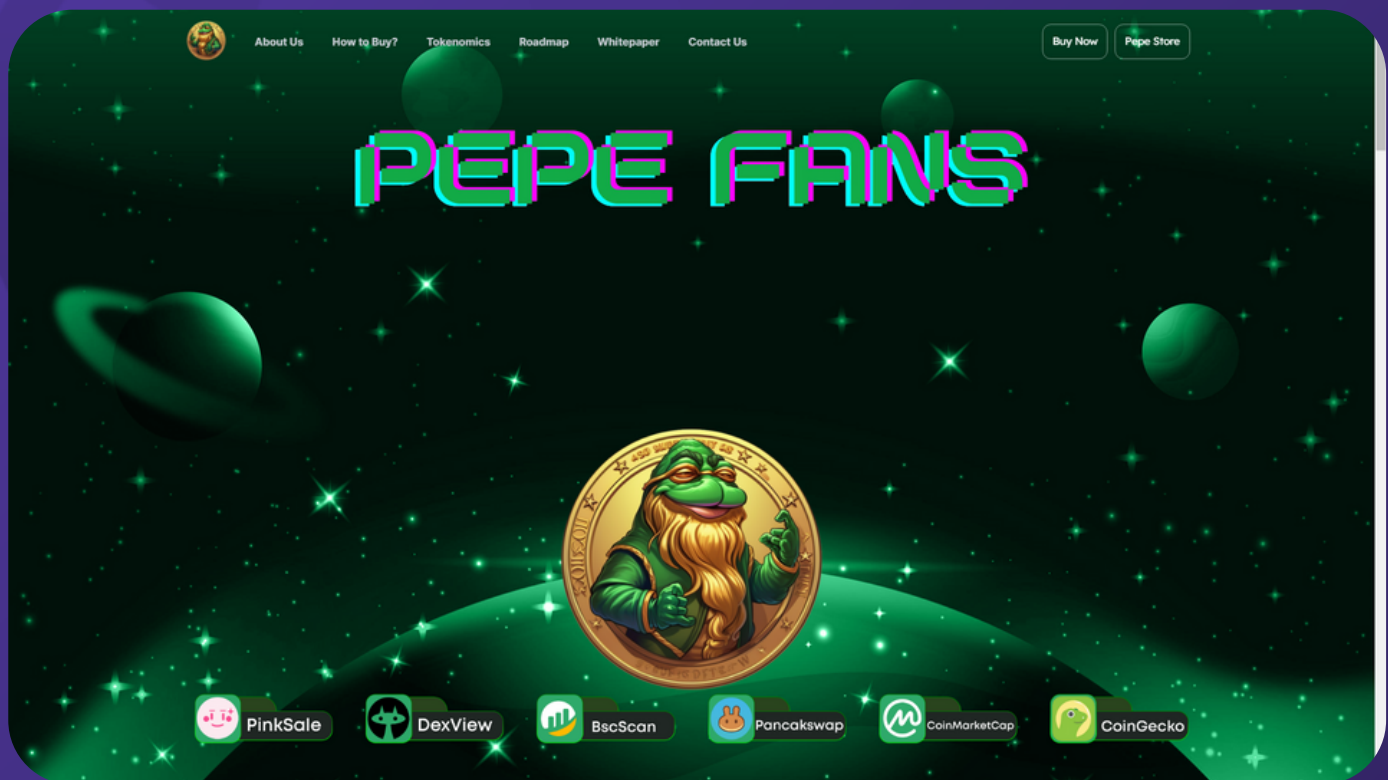
# PROJECT DESCRIPTION

At PEPE FANS, we are pioneering the intersection of cryptocurrency and e-commerce. Our goal is to bring a transformative online shopping experience, offering unprecedented value to our token holders, and inviting you to be a part of this exciting journey.



# SOCIAL MEDIA PROFILES

## PEPEF



<https://t.me/pepefanscoin>



<https://twitter.com/pepefanscoin>



<https://pepefans.io/>

*It's always good to check the social profiles of the project, before making your investment.*

Team Expelee

# CONTRACT DETAILS

Token Name: Pepefans

Symbol: Pepef

Network: Binance Smart Chain

Language: Solidity

Contract Address: -

0x3B73Ccf5AB4dD5463caECBf6DeA212151e92B9B7

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

Owner's Wallet: -

0x8a608eFBa0a69Df68A287768912C4D18406B4281

Deployer's Wallet: -

0x2901456baFf5ec7A1c9d8e2e0134fCdf16f5298a



# OWNER PRIVILEGES

- Contract owner can change marketing wallet
- Sum of all fees can not exceed 25% (buy + sell fee  $\leq$  25%)
- Contract owner can toggle swapping on and off
- Contract owner can whitelist or unwhitelist wallets
- Contract owner can not mint new tokens
- Contract owner can not disable trades
- Contract owner can not blacklist wallets
- Contract owner must enable trades manually after end of the presale

# 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 Zeppelin 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.

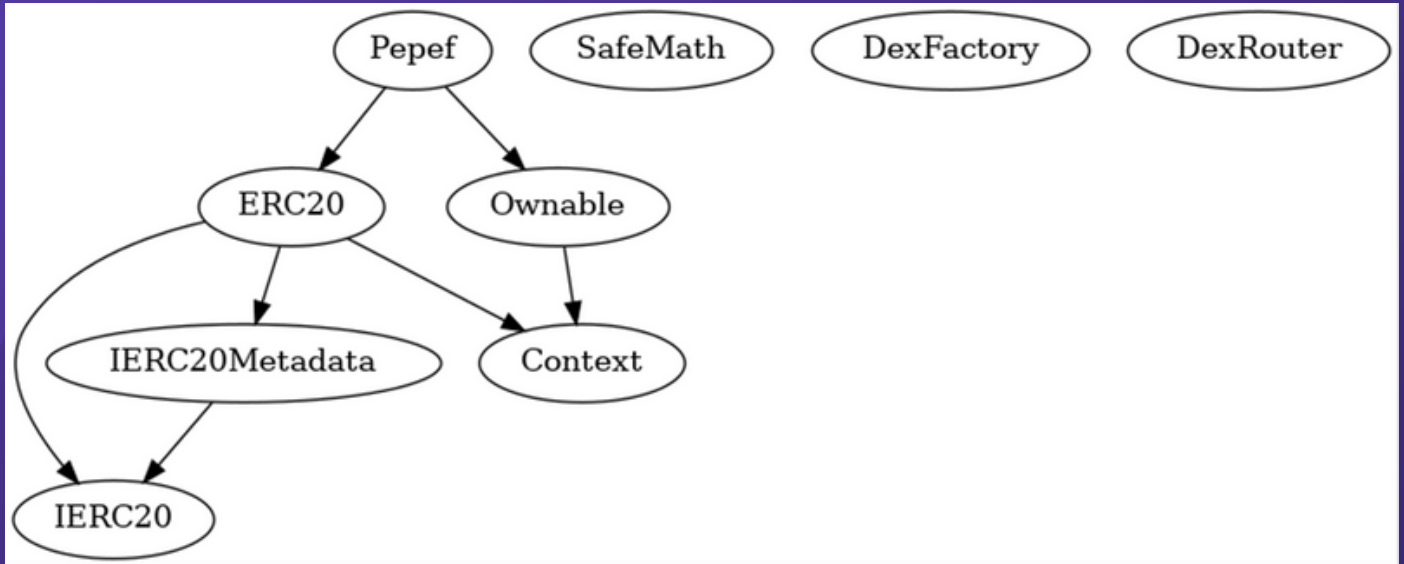
## Low Risk

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/0x208b609847d37166efa2006baf751ef8d642a7e1afa9b40e6cda506a0a753c54>

=====

## Buying from a fee excluded wallet ✓

**Tx (0% tax):**

<https://testnet.bscscan.com/tx/0xec27389a5a33ab1fd68c62ae176cb346c0f7d7add97b2b2d462b802f224e95e9>

=====

## Selling from a fee excluded wallet ✓

**Tx (0% tax):**

<https://testnet.bscscan.com/tx/0x04c78a44cddbe7971df2c594d8a1f80a2a5af24c469f7d23b2ceecc9647df107>

=====

## Transferring using a fee excluded wallet ✓

**Tx (0% tax):**

<https://testnet.bscscan.com/tx/0x719624240848a8c16f8fb346d902dd27e516bdc478853a83eca07dabe1e7cafd>

=====

# TESTNET VERSION

**Buying from a regular wallet** ✓

**Tx (0-12% tax):**

<https://testnet.bscscan.com/tx/0x63268f3d793103ef0075bcea7d0dff1ef9999e79a259c05b86051651f1090979>

**Selling from a regular wallet** ✓

**Tx (0-12% tax):**

<https://testnet.bscscan.com/tx/0x780adb024492f9a20e9b2b75c3e99070fa7feedd28c3b7ffc453089c24f39e28>

=====

**Transferring a regular wallet** ✓

**Tx (0-12%):**

<https://testnet.bscscan.com/tx/0xfddd3dfa9bff9430e235783a3559a0bf62ff57ffd2aed077ea1649717e283627>

=====

**Internal swap (marketing bnb)** ✓

**Tx:**

<https://testnet.bscscan.com/tx/0x780adb024492f9a20e9b2b75c3e99070fa7feedd28c3b7ffc453089c24f39e28>

=====

# FUNCTION DETAILS

Contract	Type	Bases			
↳	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
**IERC20**	Interface				
↳	totalSupply	External !		NO !	
↳	balanceOf	External !		NO !	
↳	transfer	External !	●	NO !	
↳	allowance	External !		NO !	
↳	approve	External !	●	NO !	
↳	transferFrom	External !	●	NO !	
**Context**	Implementation				
↳	_msgSender	Internal 🔒			
↳	_msgData	Internal 🔒			
**IERC20Metadata**	Interface	IERC20			
↳	name	External !		NO !	
↳	symbol	External !		NO !	
↳	decimals	External !		NO !	
**ERC20**	Implementation	Context, IERC20, IERC20Metadata			
↳	<Constructor>	Public !	●	NO !	
↳	name	Public !		NO !	
↳	symbol	Public !		NO !	
↳	decimals	Public !		NO !	
↳	totalSupply	Public !		NO !	
↳	balanceOf	Public !		NO !	
↳	transfer	Public !	●	NO !	
↳	allowance	Public !		NO !	



# FUNCTION DETAILS

```

| 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 🔒 | ● | |
|||||
| **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 🔒 | | |
|||||
| **Ownable** | Implementation | Context |||
| L | <Constructor> | Public ! | ● | NO ! |
| L | owner | Public ! | | NO ! |
| L | _checkOwner | Internal 🔒 | | |
| L | renounceOwnership | Public ! | ● | onlyOwner |
| L | transferOwnership | Public ! | ● | onlyOwner |
| L | _transferOwnership | Internal 🔒 | ● | |
|||||
| **DexFactory** | Interface | |||
| L | createPair | External ! | ● | NO ! |
|||||
| **DexRouter** | Interface | |||
| L | factory | External ! | | NO ! |
| L | WETH | External ! | | NO ! |
| L | addLiquidityETH | External ! | 🟢 | NO ! |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | ● | NO ! |
|||||
| **Pepef** | Implementation | ERC20, Ownable |||
| L | <Constructor> | Public ! | ● | ERC20 |

```

# FUNCTION DETAILS

L	setmarketingWallet	External	!	●	onlyOwner
L	setBuyTaxes	External	!	●	onlyOwner
L	setSellTaxes	External	!	●	onlyOwner
L	setTransferFees	External	!	●	onlyOwner
L	setSwapTokensAtAmount	External	!	●	onlyOwner
L	toggleSwapping	External	!	●	onlyOwner
L	setWhitelistStatus	External	!	●	onlyOwner
L	checkWhitelist	External	!		NO !
L	startTrading	External	!	●	onlyOwner
L	_takeTax	Internal	🔒	●	
L	_transfer	Internal	🔒	●	
L	internalSwap	Internal	🔒	●	
L	swapToETH	Internal	🔒	●	
L	withdrawStuckETH	External	!	●	onlyOwner
L	withdrawStuckTokens	External	!	●	onlyOwner
L	<Receive Ether>	External	!	💵	NO !

## ### Legend

Symbol	Meaning
●	Function can modify state
💵	Function is payable

# 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	0
Medium Risk	● Medium	1
Low Risk	● Low	0
Suggestion & discussion	● Informational	0
Gas Optimizations	● Gas Opt.	0

# LOW RISK FINDING

**Category:** Centralization

**Subject:** Enabling trades is not guaranteed

**Status:** Open

**Severity:** Medium

## Overview:

Owner must enable trades for investors manually. If trades remain disabled, holders won't be able to trade their tokens.

```
function startTrading() external onlyOwner {  
  require(!tradingStatus, "Trading has already started!");  
  tradingStatus = true;  
}
```

## Suggestion:

to mitigate this issue there are several options:

- Enable trades before end of presale
- Transfer ownership to a trusted 3rd party to guarantee enable of trades

# 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](https://twitter.com/expeleeofficial)

 [expelee](https://medium.com/expelee)

 [Expelee](https://t.me/Expelee)

 [expelee](https://in.linkedin.com/company/expelee)

 [expelee\\_official](https://www.instagram.com/expelee_official)

 [expelee-co](https://github.com/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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