expelee

Building the Futuristic Blockchain Ecosystem

SECURITY AUDIT REPORT

$LOSTPEPE

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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:

Audit Result	Passed
KYC Verification	Done
Audit Date	27 May 2023

CONTRACT DETAILS

Token Name: Lost Pepe

Symbol: $LostPepe

Network: Binance Smart Chain

Language: Solidity

Contract Address:
0x6C3b0865e24F6dc53e235ba841035fb595bCD43e

Total Supply: 69,420,000

Owner's Wallet:
0x36623f98D9565DeFdB5899b110Dd545e3D93745d

Deployer's Wallet:
0x07ad58CCbdD7f9dcAE3F8728d29815721D715963

OWNER PRIVILEGES

- Contract owner can change marketing and development wallet
- Sum of all fees can not exceed 25% (buy + sell fee <= 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 Zepplin module	Passed

RISK CLASSIFICATION

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and acces 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.

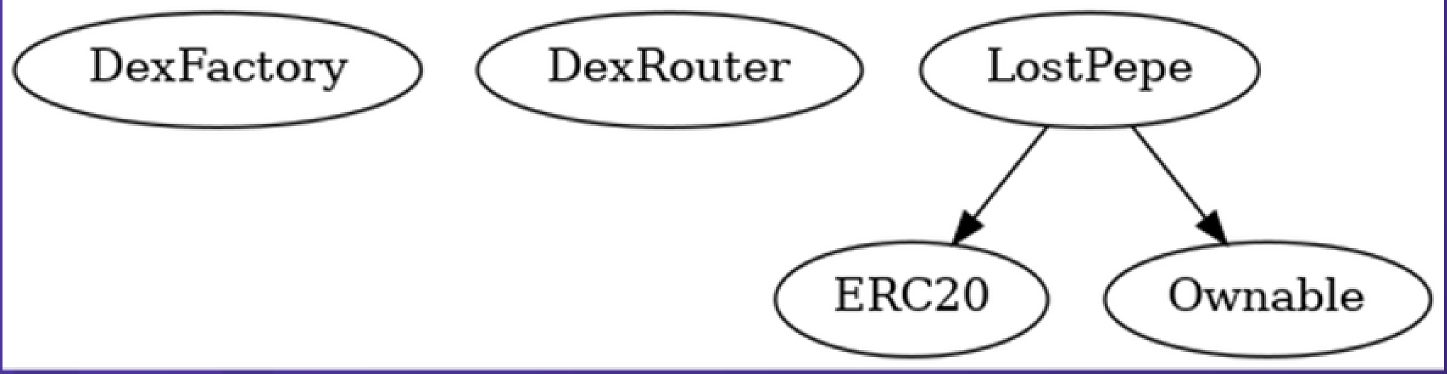
Low Risk

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

Informational

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

INHERITANCE TREES



TESTNET VERSION

Adding Liquidity ✅
Tx:
https://testnet.bscscan.com/tx/0x75b48a59cfede771189c92646fd6d8ce35b143a2822a6d4b9c5162673e50f46c

==

Buying from a fee excluded wallet ✅
Tx (0% tax):
https://testnet.bscscan.com/tx/0xe3b0553010391ce51134e8b9f634c3c4c17d87673832ad39252eaa83b3410267

==

Selling from a fee excluded wallet ✅
Tx (0% tax):
https://testnet.bscscan.com/tx/0x38f75b5c3a90dd8315989c9ab999638d0605242fd783889295dcc255d8488250

==

Transferring using a fee excluded wallet ✅
Tx (0% tax):
https://testnet.bscscan.com/tx/0x1e2dbabd901dc50e11f425514898b96f41711f0391189dbba85d953efaa68792

==

TESTNET VERSION

Buying from a regular wallet ✅
Tx (0-25% tax):
https://testnet.bscscan.com/tx/0xd9bfe3517e0842e78328858e45bb0e4783895c0a441aeee215710013a75bc93e

==

Selling from a regular wallet ✅
Tx (0-25% tax):
https://testnet.bscscan.com/tx/0x2c5783aee3548b56a08e2dc1c8ceab075252a30b8fab4a12a51bf32140a90e7b

==

Transferring a regular wallet ✅
Tx (0-25%):
https://testnet.bscscan.com/tx/0xb9afd8cebd3c34fdffa885eb5ddf33ecc81c1ee9e58162a5b70c18d7af5bf2fe

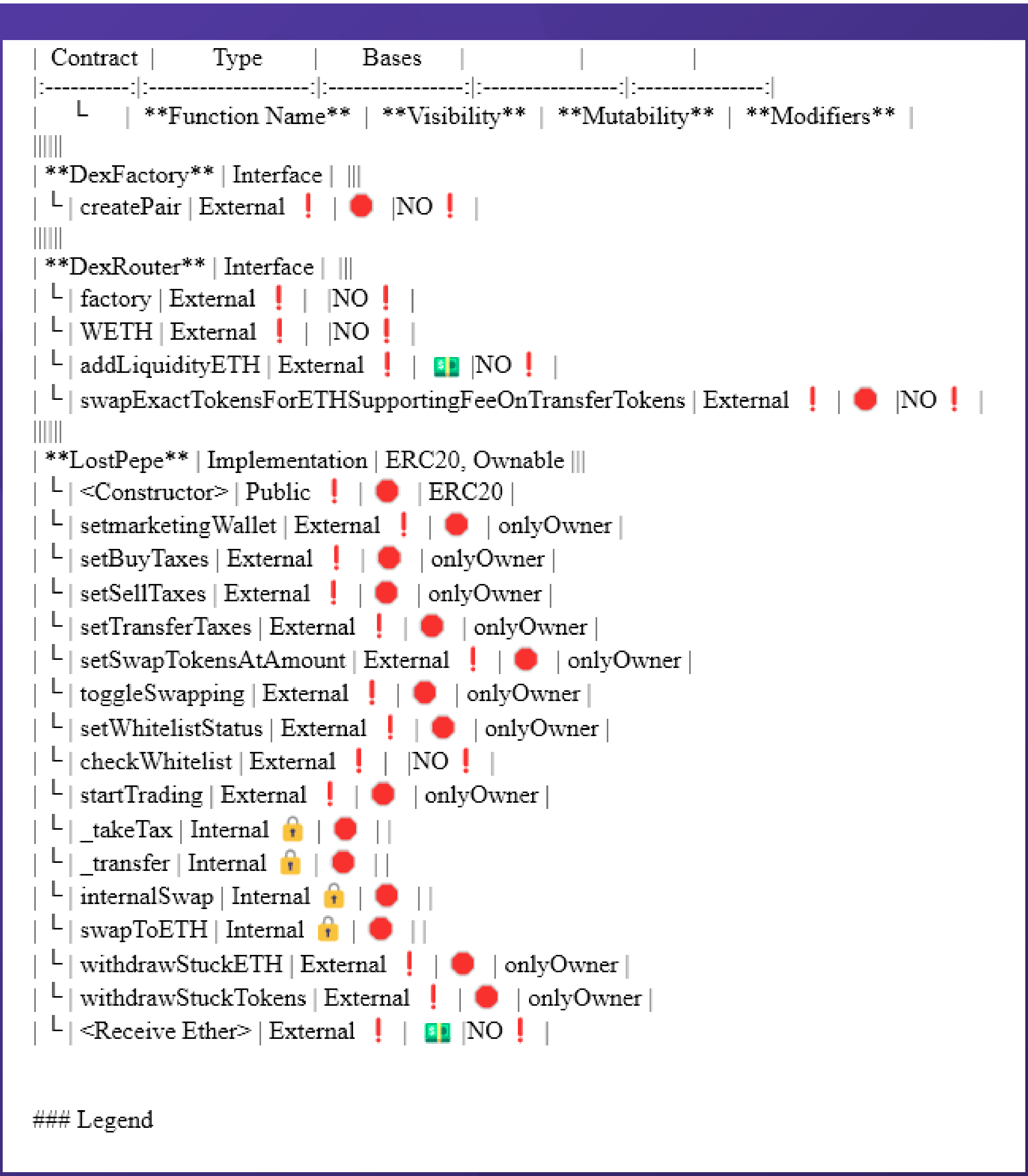
==

TESTNET VERSION

Internal swap (marketing an development wallets received BNB from contract) ✅
Tx:
https://testnet.bscscan.com/address/0xf6dddf7303d2d05854ccd28941cc3c484ac2bb75#internaltx
https://testnet.bscscan.com/address/0x8eb9d7848e8fcc2d29939effed2712b04f2c6c38#internaltx

===

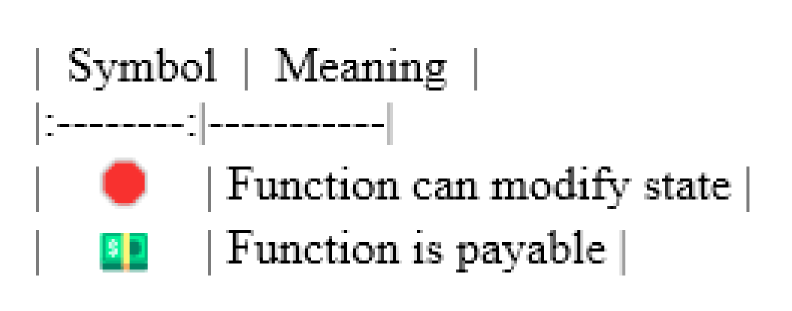
FUNCTION DETAILS



```
| Contract | Type | Bases | | |
|:----------:|:-------------------:|:----------------:|:----------------:|:---------------:|
| └ | **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
||||||
| **DexFactory** | Interface | |||
| └ | createPair | External ❗ | 🛑 |NO ❗ |
||||||
| **DexRouter** | Interface | |||
| └ | factory | External ❗ | |NO ❗ |
| └ | WETH | External ❗ | |NO ❗ |
| └ | addLiquidityETH | External ❗ | 💵 |NO ❗ |
| └ | swapExactTokensForETHSupportingFeeOnTransferTokens | External ❗ | 🛑 |NO ❗ |
||||||
| **LostPepe** | Implementation | ERC20, Ownable |||
| └ | <Constructor> | Public ❗ | 🛑 | ERC20 |
| └ | setmarketingWallet | External ❗ | 🛑 | onlyOwner |
| └ | setBuyTaxes | External ❗ | 🛑 | onlyOwner |
| └ | setSellTaxes | External ❗ | 🛑 | onlyOwner |
| └ | setTransferTaxes | External ❗ | 🛑 | onlyOwner |
| └ | setSwapTokensAtAmount | External ❗ | 🛑 | onlyOwner |
| └ | toggleSwapping | External ❗ | 🛑 | onlyOwner |
| └ | setWhitelistStatus | External ❗ | 🛑 | onlyOwner |
| └ | checkWhitelist | External ❗ | |NO ❗ |
| └ | startTrading | External ❗ | 🛑 | onlyOwner |
| └ | _takeTax | Internal 🔒 | 🛑 | |
| └ | _transfer | Internal 🔒 | 🛑 | |
| └ | internalSwap | Internal 🔒 | 🛑 | |
| └ | swapToETH | Internal 🔒 | 🛑 | |
| └ | withdrawStuckETH | External ❗ | 🛑 | onlyOwner |
| └ | withdrawStuckTokens | External ❗ | 🛑 | onlyOwner |
| └ | <Receive Ether> | External ❗ | 💵 |NO ❗ |


### Legend
```

FUNCTION DETAILS



Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

MANUAL REVIEW

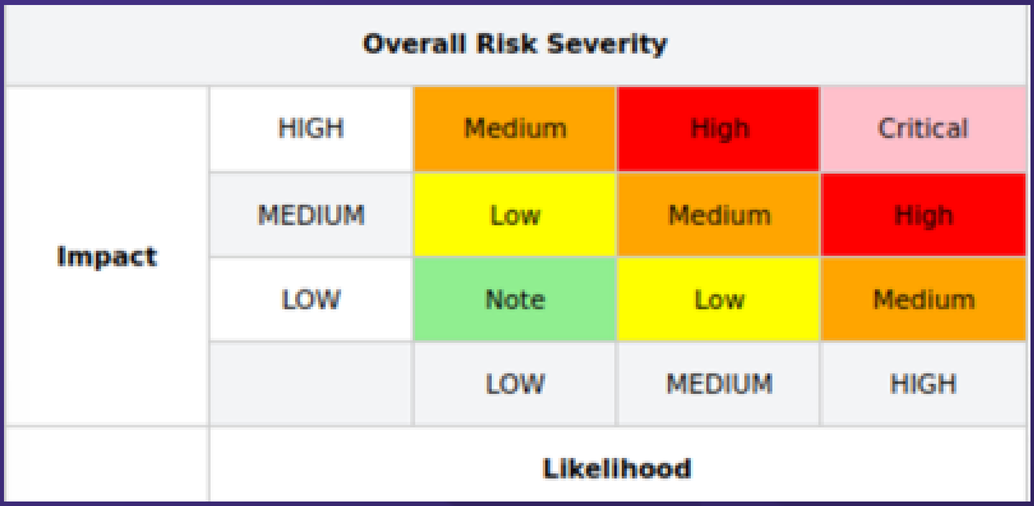
Severity Criteria

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

Vulnerabilities are dividend into three primary risk categroies:
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
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
Status: Open
Severity: High

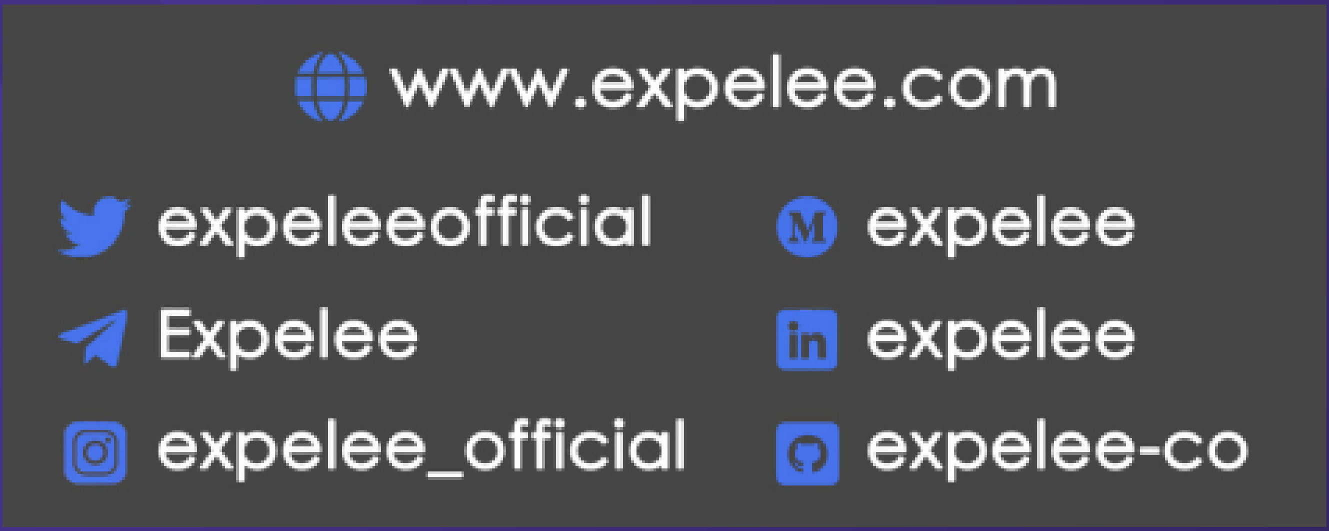
Overview:
Owner must enable trades for investors manually. If trades remain disabled, holders wont be able to trade their tokens.

```
  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.



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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.

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