

# expelee

Building the Futuristic **Blockchain Ecosystem**

## Audit Report FOR



**FOMO lab**

# 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 with low risk</b>
 <b>KYC Verification</b>	<b>Done</b>
 <b>Audit Date</b>	<b>26 Sep 2022</b>

## Passed with low risk

there is no taxes, max buy/sell amount, blacklisting or any other costume functionality, the only concern is that owner can pause the buys/sells/transers but this also will affect all the wallets even owner wallet

**-Team Expelee**



# PROJECT DESCRIPTION

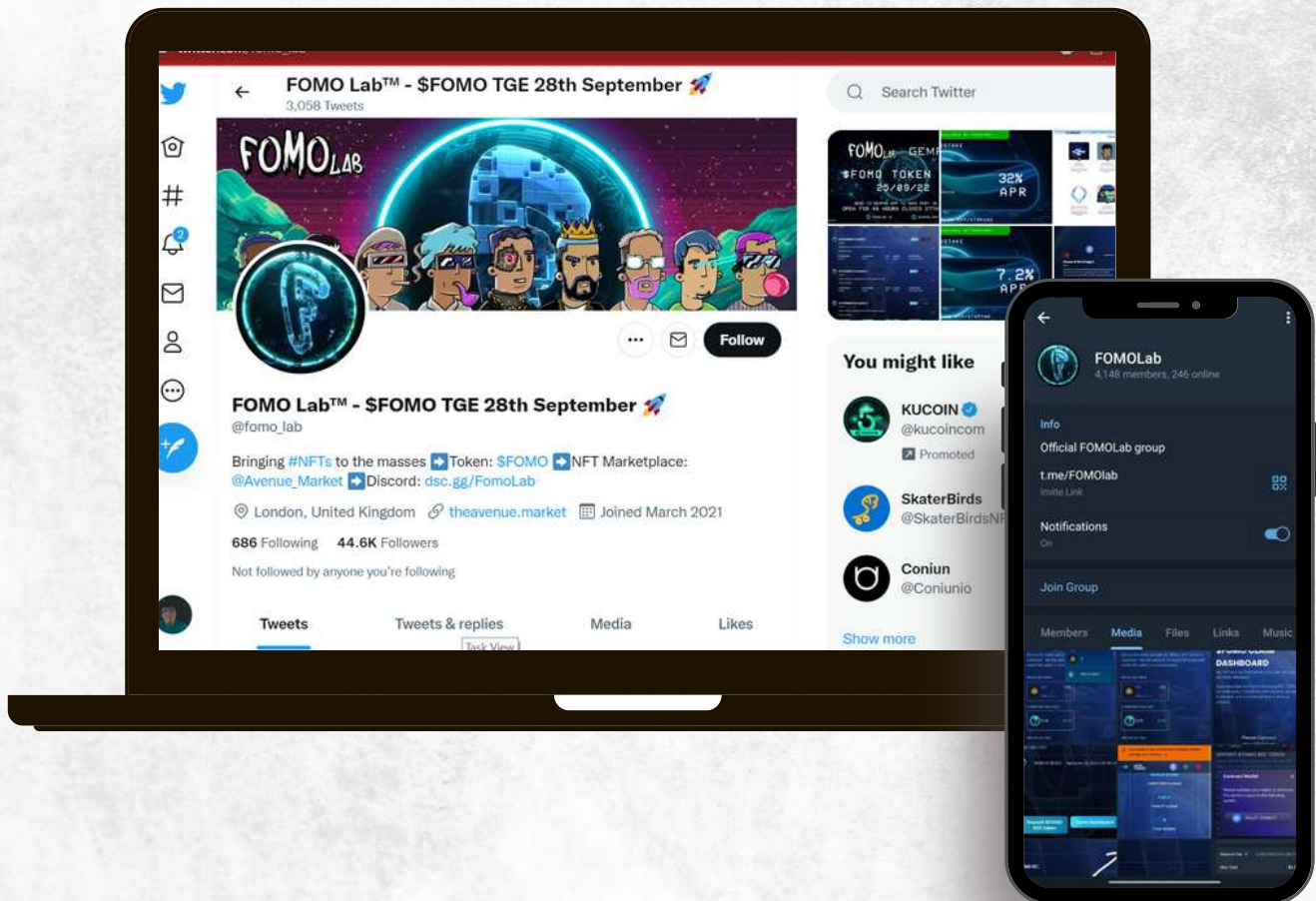
## FOMO lab

Fomo Lab are spearheading the Web3.0 revolution by bringing to market an all-inclusive DeFi product ecosystem which will be transforming the Web3 space by bringing together digital creators, decentralised systems and Web3 enthusiasts - ensuring NFTs are brought to the masses and that Fomo Lab's ideas are changing culture.



# Social Media Profiles

## FOMO lab



 <https://fomolab.io>

 <https://t.me/FOMOLab>

 [https://twitter.com/fomo\\_lab](https://twitter.com/fomo_lab)

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

**-Team Expelee**



# CONTRACT DETAILS

Token Name

**Fomo Lab**

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Symbol

**FOMO**

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Network

**ERC**

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Language

**Solidity**

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Contract Address (Verified)

**0xb0cfb062dE74F0410430a37305b878B7ad65903b**

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Total Supply

**100,000,000**

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Decimals

**18**

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Compiler

**v0.8.9+commit.e5eed63a**

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License

**default license**

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Contract SHA-256 Checksum:

**5647692cda204e10797c67733316ee1a63ab2cbf52ee37c7fbdddf11068a07db**

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# 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



# FUNCTION OVERVIEW

Can Take Back Ownership

Not Detected

Owner Change Balance

Not Detected

Blacklist

Not Detected

Modify Fees

Not Detected

Proxy

Not Detected

Whitelisted

Not Detected

Anti Whale

Not Detected

Trading Cooldown

Not Detected

Transfer Pausable

Detected

Cannot Sell All

Not Detected

Hidden Owner

Not Detected

Mint

Not Detected

# VULNERABILITY CHECKLIST

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp 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
Fallback function security	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

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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

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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

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

## Informational

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

# AUDIT SUMMARY

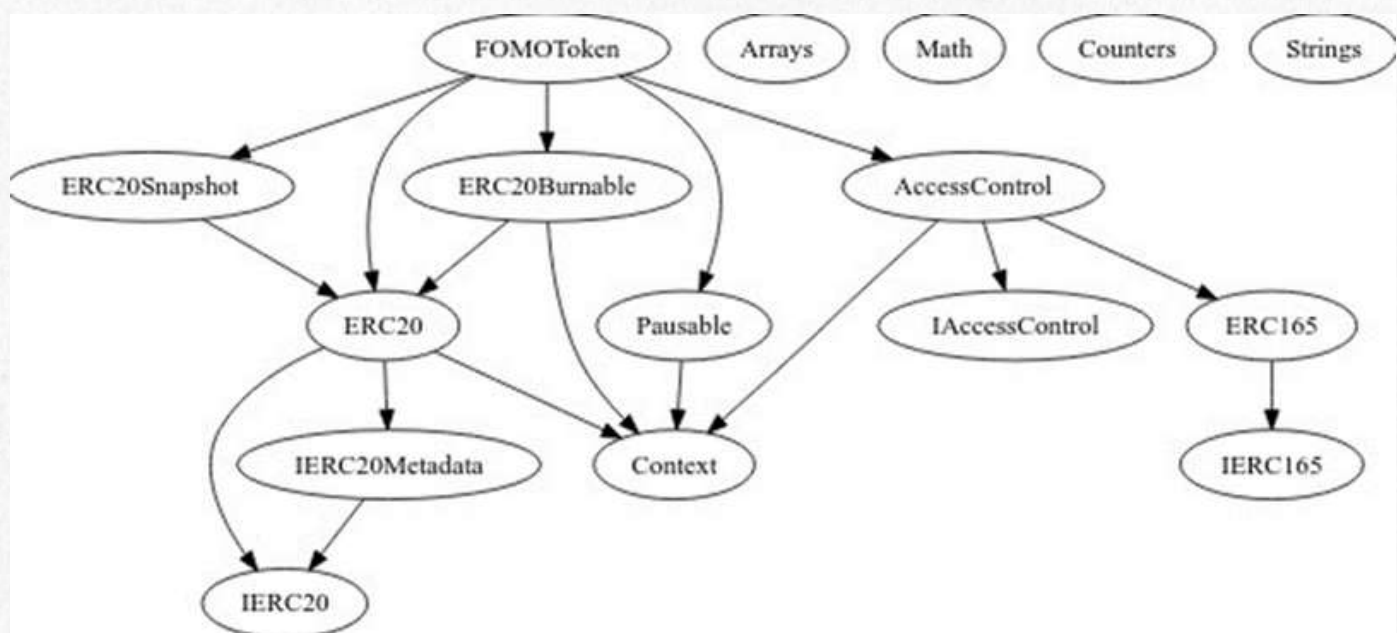
## Ownership:

all the Burn, Pause and Snapshot roles are given to deployer of the contract at this address:

0xfd670094794980860486a860768645fc80b353ff

## Contracts & Inheritance Tree:

all of below contracts are used, all of this contracts except FOMOToken are openzeppelin standard and suggested contracts. they are not in this audit scope and we believe that they don't have any issues. FOMOToken is in this audit scope





## Summary

- FOMOToken inherits from ERC20Snapshot which is used to record balance of wallets and totalsupply at a specific block.
- FOMOToken inherits from ERC20Burnable, this means that Owner of BURNER Role can burn its own wallet tokens, or burn tokens from other wallets if it has enough allowance
- FOMOToken also inherits from Pauseablecontract, this means owner is able to pause (disable) specific tasks in the contract, in this contract, owner is able to pause trades for everyone even owner
- Taxes are 0, and can not be changed later Owner is not able to blacklist a wallet
- There is not a limit on buying/selling/transferring amounts

# MANUAL AUDIT

## Severity Criteria

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

Vulnerabilities are divided into three primary risk categories: **high**, **medium**, and **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 Summary

- **High Risk Findings:**1
- **Medium Risk Findings:**1
- **Low Risk Findings:**0
- **Suggestions & discussion:** 0
- **Gas Optimizations :** 0

## High Risk Findings

### Centralization Risks

- 0xf23ecefef1f12bc521998e0cfa5b3a0fefa9dbd5 is an EOA which holds 95% of the tokens at time of writing this contract, we assume that owner of the token has access to this account's private key, **however since we are just on auditing step this should not be a big concern for now but can be later.**
- **Suggestion:** we recommend FomoLab team to distribute tokens based on their distribution plan.
- **Fomo Lab Team Allevation:**

We will be locking all the remainder tokens for distribution at the correct time as per vesting schedule.

## Medium Risk Findings

### Centralization Risk

- **Deployer of the contract is able to pause buys/sells/transfers for all wallets(no exception) using pause() function.**
- **Suggestion:** its not clear what is usage of this pause() function. we suggest FomoLab team to give explanations about the usage of this functionality



## 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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Always Do your own research and protect 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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