

# expelee

Building the Futuristic **Blockchain Ecosystem**

# Security Audit Report FOR



SmartAI

# 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 With High Risk
 KYC Verification	Passed
 Audit Date	7 March 2023

# PROJECT DESCRIPTION

## SmartAI

Unlock the full potential of decentralized finance with SmartAI Token. Our innovative platform combines the power of AI with the security of Arbitrum to bring you the best possible trading opportunities. Whether you're a seasoned trader or just getting started, SmartAI gives you the tools you need to make informed decisions and maximize your returns. Join the AI revolution and invest in your future with SmartAI Token.

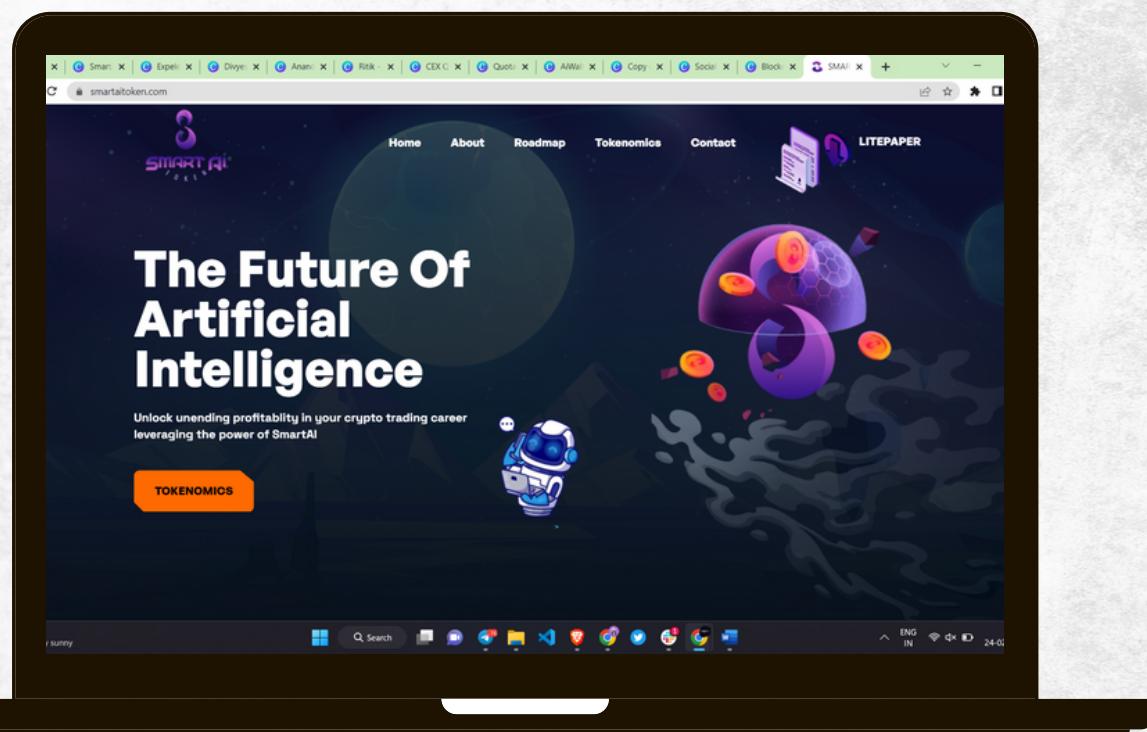


**SMART AI**  
Token



# Social Media Profiles

## SmartAI



 <http://www.smartaitoken.com>

 <https://t.me/SmartAIToken>

 <https://twitter.com/SmartAiToken>

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

**-Team Expelee**

# CONTRACT DETAILS

Token Name

**SmartAI**

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Symbol

**SAT**

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Network

**Arbitrum**

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Language

**Solidity**

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Contract Address (Verified)

**0xBBc420f880F50f3ABC9DFA203FB6736FCa86D924**

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Token Type

**Arbitrum**

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Total Supply

**5,000,000,000**

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Contract SHA-256 Checksum:

**d925038df1639857df694e4aac3e084660b16072**

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Owner Wallet

**0xd136F98c7FEB9F964bd900299624c0A36D92c5f5**

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Deployer Wallet

**0xd136F98c7FEB9F964bd900299624c0A36D92c5f5**

# 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
- Complier
- 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	Not 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.

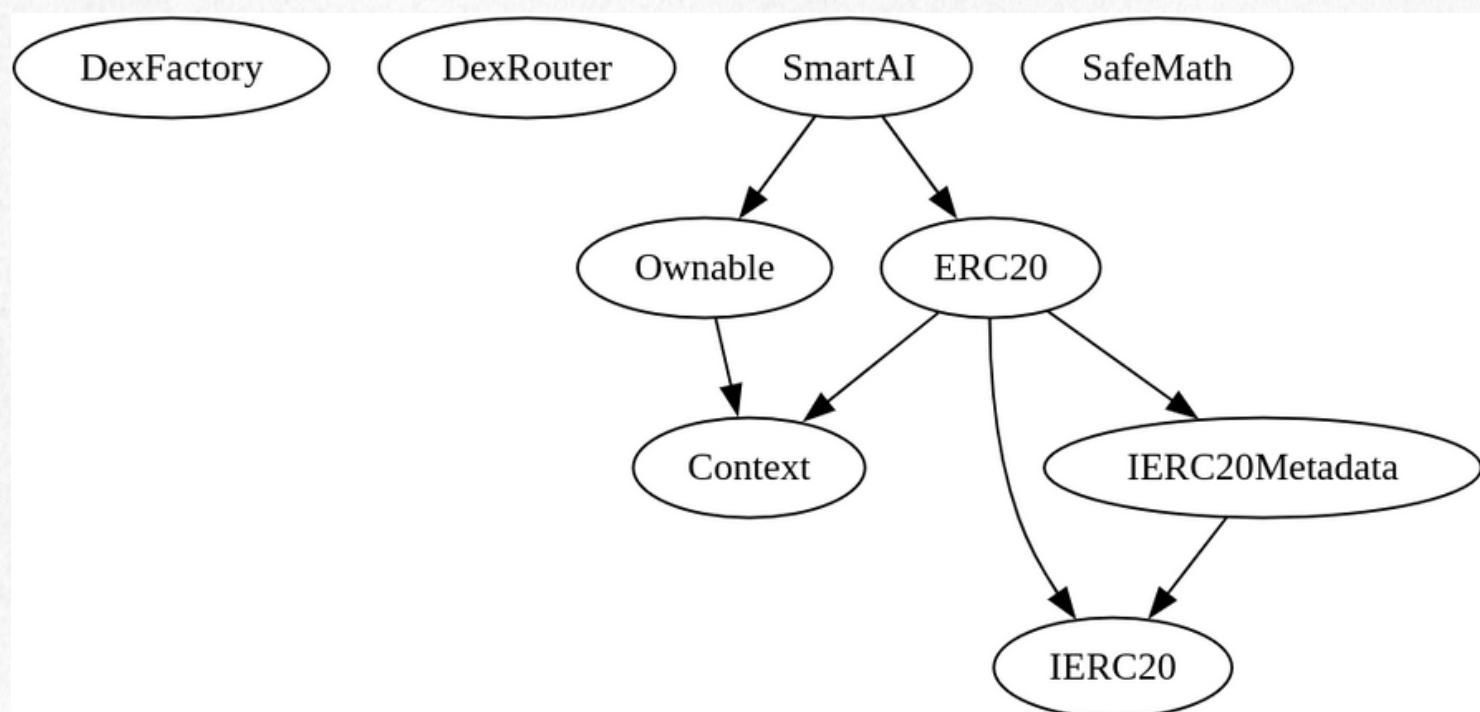
# AUDIT SUMMARY

## Used Tools:

- 1. Manual Review:** The code has undergone a line-by-line review by the Expelee team.
- 2. BSC Test Network:** All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.
- 3. Slither:** The code has undergone static analysis using Slither.

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## Inheritance Trees:



## Summary:

- Owner is not able to set buy tax more than 25% and sell tax more than 25%
- Owner is not able to set transfer tax (0% forever)
- Owner is able to set max buy/sell/transfer amounts but not less than 0.0001% of total supply
- Owner must enable trading in order for everyone to be able to trade their tokens
- Owner is not able to disable trades
- Owner is not able to mint new tokens

# Functional Tests

1- Adding liquidity (**passed**):

<https://testnet.bscscan.com/tx/0x81e481ed1a4cde44905780c3a21b33d66d5b414b407cf6f8f2e604bd2de94726>

2- Buying (5% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xb6f68d1a45664b1c3af5c611c37bf3200f523507ea416a2e1d0e03cfed4f4216>

3- Selling (5% tax, BNB sent to marketing wallet) (**passed**):

<https://testnet.bscscan.com/tx/0x60325d611f705b7ee3e8c3643ce9ae2f7345254d5ebc69366e2e0c8fb4c29761>

4- Transferring (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0xdac57e422bd28de9ac2316c83773a772405b8986ffd604e82f6e274a07de9dc0>

# 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

- **High Risk Findings:** 2
  - **Medium Risk Findings:** 0
  - **Low Risk Findings:** 0
  - **Suggestions & discussion:** 0
  - **Gas Optimizations :** 0
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# High Risk Findings

**Centralization– Owner is able to set max buy and sell amounts to 1/10000 of total supply, this means buys or sells lower than this amount will be rejected**

```
function setMaxSell(uint256 maxSell_) external onlyOwner {
    require(
        maxSell_ >= totalSupply() / 10000,
        "can not set max sell less than 0.01% of supply"
    );
    maxSell = maxSell_;
}

function setMaxBuy(uint256 maxBuy_) external onlyOwner {
    require(
        maxBuy_ >= totalSupply() / 10000,
        "can not set max buy less than 0.01% of supply"
    );
    maxBuy = maxBuy_;
}
```

**Centralization – Owner must enable trading to enable public to trade their tokens, otherwise only owner can buy/sell/transfer.**

```
function enableTrading() external onlyOwner {
    tradingStatus = true;
}
```

# 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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