Next-Generation Smart Contract Audit

AI-Powered KYC & KYB | Marketing

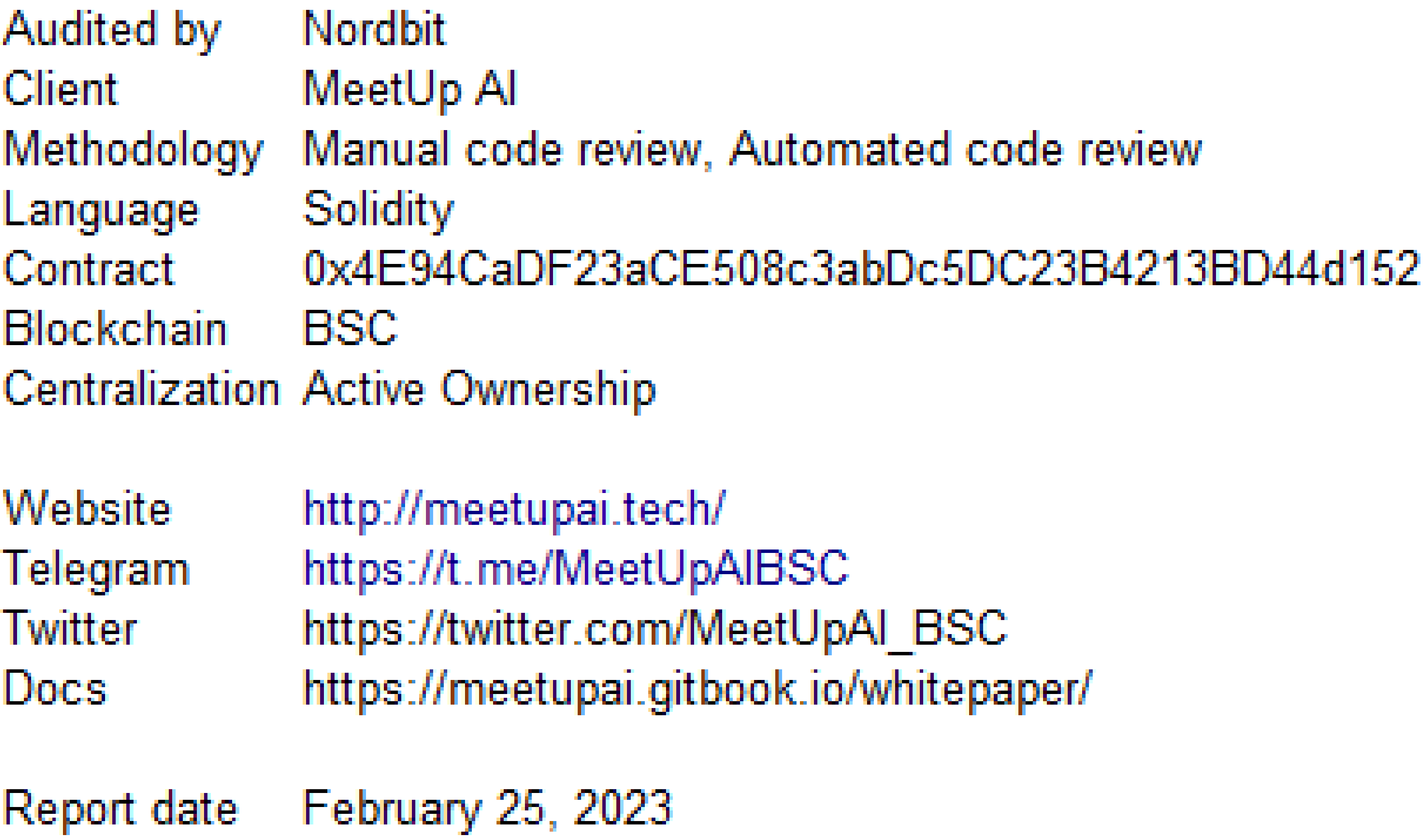
MeetUp AI

AUDIT

25/02/2023

Nordbit.io

Introduction



Audited by	Nordbit
Client	MeetUp AI
Methodology	Manual code review, Automated code review
Language	Solidity
Contract	0x4E94CaDF23aCE508c3abDc5DC23B4213BD44d152
Blockchain	BSC
Centralization	Active Ownership
Website	http://meetupai.tech/
Telegram	https://t.me/MeetUpAIBSC
Twitter	https://twitter.com/MeetUpAI_BSC
Docs	https://meetupai.gitbook.io/whitepaper/
Report date	February 25, 2023

Always verify authenticity of Nordbit reports on our Github:
https://github.com/Nordbitio/AUDIT

NORDBIT received the application for a smart contract security audit of MeetUP AI on February 23, 2023. The following are the details and results of this smart contract security audit:

Token Name: MeetUP AI
Contract address: 0x4E94CaDF23aCE508c3abDc5DC23B4213BD44d152
TokenTracker: MeetUp AI ($MEET)
Link Address:
https://bscscan.com/address/0x4E94CaDF23aCE508c3abDc5DC23B4213BD44d152

The audit items and results:
(Other unknown security vulnerabilities are not
included in the audit responsibility scope)
Audit Result: Passed

Ownership: Not
(The contract contains ownership functionality and
ownership is not renounced which allows the
creator or current owner to modify contract behavior)

Audit Number: JUST125052023
Audit Date: February 25, 2023
Audit Team: Nordbit_Just
https://www.nordbit.io/

Table of Content

Introduction

This Audit Report mainly focuses on the overall security of MeetUP AI Smart Contract. With this report, we have tried to ensure the reliability and correctness of their smart contract by complete and rigorous assessment of their system's architecture and the smart contract codebase.

Auditing Approach and Methodologies

The Nordbit team has performed rigorous testing of the project starting with analyzing the code design patterns in which we reviewed the smart contract architecture to ensure it is structured and safe use of third-party smart contracts and libraries.

Nordbit then performed a formal line-by-line inspection of the Smart Contract to find any potential issues like race conditions, transaction-ordering dependence, timestamp dependence, and denial of service attacks.

In the Unit testing Phase, we coded/conducted custom unit tests written for each function in the contract to verify that each function works as expected.

In Automated Testing, we tested the Smart Contract with our in-house developed tools to identify vulnerabilities and security flaws.

The code was tested in collaboration with our multiple team members and this included the:

Testing the functionality of the Smart Contract to determine proper logic has been followed throughout the whole process.

Analyzing the complexity of the code in-depth and detailed, manual review of the code, line-by-line.

Deploying the code on TESTNET using multiple clients to run live tests.

Analyzing failure preparations to check how the Smart Contract performs in case of any bugs and vulnerabilities.

Checking whether all the libraries used in the code are on the latest version.

Analyzing the security of the on-chain data.

Audit Details

Project Name: MeetUP AI
Website: https://meetupai.tech
Platform: Binance Smart Chain
Type of Token: BEP20

Languages: Solidity (Smart contract)
Platforms and Tools: Remix IDE, Truffle, Truffle Team, Ganache, Solhint, VScode, Mythril, Contract Library

Audit Goals

The focus of the audit was to verify that the Smart Contract System is secure, resilient and working according to the specifications. The audit activities can be grouped in the following three categories:

Security

Identifying security related issues within each contract and the system of contract.

Sound Architecture

Evaluation of the architecture of this system through the lens of established smart contract best practices and general software best practices.

Code Correctness and Quality

A full review of the contract source code. The primary areas of focus include:

- Accuracy
- Readability
- Sections of code with high complexity
- Quantity and quality of test coverage

Issue Categories

Every issue in this report was assigned a severity level from the following:

High level severity issues

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

Medium level severity issues

Issues on this level could potentially bring problems and should eventually be fixed.

Low level severity issues

Issues on this level are minor details and warnings that can remain unfixed but would be better fixed at some point in the future.

Number of issues per severity

Critical	High	Medium	Low
0	0	0	0

Issues Checking Status

1 Compiler warnings.	Passed
2 Race conditions and Reentrancy. Cross-function race conditions.	Passed
3 Possible delays in data delivery.	Passed
4 Oracle calls.	Passed
5 Front running.	Passed
6 Timestamp dependence.	Passed
7 Integer Overflow and Underflow.	Passed
8 DoS with Revert.	Passed
9 DoS with block gas limit.	Passed
10 Methods execution permissions.	Passed
11 Economy model.	Passed
12 The impact of the exchange rate on the logic.	Passed
13 Private user data leaks.	Passed
14 Malicious Event log.	Passed
15 Scoping and Declarations.	Passed
16 Uninitialized storage pointers.	Passed
17 Arithmetic accuracy.	Passed
18 Design Logic.	Passed
19 Cross-function race conditions.	Passed
20 Safe Zeppelin module.	Passed
21 Fallback function security.	Passed

Notes

✅ No mint function found, owner cannot mint tokens after initial deploy

✅ Owner can’t change fees over 9%

```
function setTaxes(uint16 buyFee, uint16 sellFee, uint16 transferFee) external onlyOwner {
require(!taxesAreLocked, "Taxes are locked.");
require(buyFee <= maxBuyTaxes
&& sellFee <= maxSellTaxes
&& transferFee <= maxTransferTaxes,
"Cannot exceed maximums.");
_taxRates.buyFee = buyFee;
_taxRates.sellFee = sellFee;
_taxRates.transferFee = transferFee;
}
```

✅ Owner can’t set blacklist

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Summary

Smart contracts do not contain any high severity issues.
Note:
Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report.