



WEB4 AI

Smart Contract Audit Report

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AUDITED DETAILS

Audited Project

| Project name | Token ticker | Blockchain |
|--------------|--------------|---------------------|
| WEB4 AI | WEB4 | Binance Smart Chain |

Addresses

| | |
|---------------------------|---------------------------------------------|
| Contract address | 0xee7e8c85956d32c64bafdcdded3f43b3c39b1ce2f |
| Contract deployer address | 0x05e1Ec752c8Bcb4b8A0d3AeC634018319F95ceEe |

Project Website

| |
|-------------------------------------------------------------|
| https://webfour.build/ |
|-------------------------------------------------------------|

Codebase

| |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| https://bscscan.com/address/0xee7e8c85956d32c64bafdcdded3f43b3c39b1ce2f#code |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SUMMARY

Web4 AI (\$WEB4) strives to disrupt the Decentralized Finance (DeFi) cryptocurrency space using Artificial Intelligence (AI). Web4 AI, through its diverse DeFi offerings, aims to quickly establish a strong presence in the DeFi market by creating unique use cases. One of Web4 AI's unique selling points is that it will offer superior AI trading algorithms for automated AI trading—secondly, the introduction of Web4 Wallet Management to optimize the storage and transaction of digital assets. Thirdly, Web4 AI NFT Generation utilizes AI to generate NFTs that are unique and cannot be replicated, making them highly valuable. Lastly, Web4 AI also intends to branch into non-crypto-related use cases such as automated customer service, content creation, etc.

| Contract Summary

Documentation Quality

WEB4 AI provides a very good documentation with standard of solidity base code.

- The technical description is provided clearly and structured and also don't have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by WEB4 AI with the discovery of several low issues.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

| Audit Findings Summary

- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 7.

CONCLUSION

We have audited the WEB4 AI project released on January 2023 to discover issues and identify potential security vulnerabilities in WEB4 AI Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides satisfactory results with low-risk issues.

The issues found in the WEB4 AI smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issue found is a floating pragma is set. The current pragma Solidity directive is `""^0.6.12"`. Specifying a fixed compiler version is recommended to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

AUDIT RESULT

| Article | Category | Description | Result |
|-----------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------|-------------|
| Default Visibility | SWC-100 SWC-108 | Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously. | PASS |
| Integer Overflow and Underflow | SWC-101 | If unchecked math is used, all math operations should be safe from overflows and underflows. | PASS |
| Outdated Compiler Version | SWC-102 | It is recommended to use a recent version of the Solidity compiler. | PASS |
| Floating Pragma | SWC-103 | Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly. | ISSUE FOUND |
| Unchecked Call Return Value | SWC-104 | The return value of a message call should be checked. | PASS |
| Unprotected Ether Withdrawal | SWC-105 | Due to missing or insufficient access controls, malicious parties can withdraw from the contract. | PASS |
| SELFDESTRUCT Instruction | SWC-106 | The contract should not be self-destructible while it has funds belonging to users. | PASS |
| Reentrancy | SWC-107 | Check effect interaction pattern should be followed if the code performs recursive call. | PASS |
| Uninitialized Storage Pointer | SWC-109 | Uninitialized local storage variables can point to unexpected storage locations in the contract. | PASS |
| Assert Violation | SWC-110 SWC-123 | Properly functioning code should never reach a failing assert statement. | PASS |
| Deprecated Solidity Functions | SWC-111 | Deprecated built-in functions should never be used. | PASS |
| Delegate call to Untrusted Callee | SWC-112 | Delegatecalls should only be allowed to trusted addresses. | PASS |

| | | | |
|-------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| DoS (Denial of Service) | SWC-113 SWC-128 | Execution of the code should never be blocked by a specific contract state unless required. | PASS |
| Race Conditions | SWC-114 | Race Conditions and Transactions Order Dependency should not be possible. | PASS |
| Authorization through tx.origin | SWC-115 | tx.origin should not be used for authorization. | PASS |
| Block values as a proxy for time | SWC-116 | Block numbers should not be used for time calculations. | PASS |
| Signature Unique ID | SWC-117 SWC-121 SWC-122 | Signed messages should always have a unique id. A transaction hash should not be used as a unique id. | PASS |
| Incorrect Constructor Name | SWC-118 | Constructors are special functions that are called only once during the contract creation. | PASS |
| Shadowing State Variable | SWC-119 | State variables should not be shadowed. | PASS |
| Weak Sources of Randomness | SWC-120 | Random values should never be generated from Chain Attributes or be predictable. | PASS |
| Write to Arbitrary Storage Location | SWC-124 | The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations. | PASS |
| Incorrect Inheritance Order | SWC-125 | When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/. | PASS |
| Insufficient Gas Griefing | SWC-126 | Insufficient gas grieving attacks can be performed on contracts which accept data and use it in a sub-call on another contract. | PASS |
| Arbitrary Jump Function | SWC-127 | As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value. | PASS |

| | | | |
|----------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Typographical Error | SWC-129 | A typographical error can occur for example when the intent of a defined operation is to sum a number to a variable. | PASS |
| Override control character | SWC-130 | Malicious actors can use the Right-To-Left-Override unicode character to force RTL text rendering and confuse users as to the real intent of a contract. | PASS |
| Unused variables | SWC-131 SWC-135 | Unused variables are allowed in Solidity and they do not pose a direct security issue. | PASS |
| Unexpected Ether balance | SWC-132 | Contracts can behave erroneously when they strictly assume a specific Ether balance. | PASS |
| Hash Collisions Variable | SWC-133 | Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision. | PASS |
| Hardcoded gas amount | SWC-134 | The transfer() and send() functions forward a fixed amount of 2300 gas. | PASS |
| Unencrypted Private Data | SWC-136 | It is a common misconception that private type variables cannot be read. | PASS |

SMART CONTRACT ANALYSIS

| | |
|------------------|---------------------------------------------------------------------|
| Started | Thursday Jan 26 2023 02:23:26 GMT+0000 (Coordinated Universal Time) |
| Finished | Friday Jan 27 2023 21:23:40 GMT+0000 (Coordinated Universal Time) |
| Mode | Standard |
| Main Source File | WEB4.sol |

| Detected Issues

| ID | Title | Severity | Status |
|---------|---------------------------|----------|--------------|
| SWC-103 | A FLOATING PRAGMA IS SET. | low | acknowledged |

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 7

low SEVERITY

The current pragma Solidity directive is `^0.6.12`. It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- WEB4.sol

Locations

```
6
7  pragma solidity ^0.6.12;
8
9  abstract contract Context {
10     function _msgSender() internal view virtual returns (address payable) {
11
```

DISCLAIMER

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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of 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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ABOUT US

Sysfixed is a blockchain security certification organization established in 2021 with the objective to provide smart contract security services and verify their correctness in blockchain-based protocols. Sysfixed automatically scans for security vulnerabilities in Ethereum and other EVM-based blockchain smart contracts. Sysfixed a comprehensive range of analysis techniques—including static analysis, dynamic analysis, and symbolic execution—can accurately detect security vulnerabilities to provide an in-depth analysis report. With a vibrant ecosystem of world-class integration partners that amplify developer productivity, Sysfixed can be utilized in all phases of your project's lifecycle. Our team of security experts is dedicated to the research and improvement of our tools and techniques used to fortify your code.