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SMART CONTRACT

Security Audit Report

Customer: Musée

Website: http://www.musee.art/

Platform: Ethereum Language: Solidity

Date: June 14th, 2021

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THIS IS SECURITY AUDIT REPORT DOCUMENT AND WHICH MAY CONTAIN INFORMATION WHICH IS CONFIDENTIAL. WHICH INCLUDES ANY POTENTIAL VULNERABILITIES AND MALICIOUS CODES WHICH CAN BE USED TO EXPLOIT THE SOFTWARE. THIS MUST BE REFERRED INTERNALLY AND ONLY SHOULD BE MADE AVAILABLE TO PUBLIC AFTER ISSUES ARE RESOLVED.

Introduction

We were contracted by the Musée team to perform the Security audit of the Musée NFT Token smart contract code. The audit has been performed using manual analysis as well as using automated software tools. This report presents all the findings regarding the audit performed on June 14th, 2021.

The purpose of this audit was to address the following:

- Ensure that all claimed functions exist and function correctly.
- Identify any security vulnerabilities that may be present in the smart contract.

Project Background

Musée's platform is built on top of a limited quantity of plots each powered by their own unique NFTs. Using the Ethereum blockchain ERC-721 tokens, one can buy, own, combine and sell the NFTs that have full ownership of the plots. Musée allows users to buy an NFT on the Grid. It will allow users to buy more than one NFT at a time.

Audit scope

Name	Code Review and Security Analysis Report for Musée Token (NFT) Smart Contract
Platform	Ethereum / Solidity
File	Musée.sol
File MD5 Hash	4753A880BC9112F9C9E64797F34119A4
File SHA256 Hash	7D55487A7B4FDB116FAF14497A6C519B3854CAB3AF D0E46863D14D1CDE635D00
Audit Date	June 14th, 2021

PS: There are 3 external imports from open zeppelin. These files are not included in the audit scope and thus they are not audited.

Claimed Smart Contract Features

Claimed Feature Detail	Our Observation
Name: Musée Token	YES, This is valid.
Symbol: MUSEE	YES, This is valid.
MaxIDs: 10000	YES, This is valid.
PresalePrice1: 0.5 ether	YES, This is valid.
PresalePrice2: 1 ether	YES, This is valid.
PresalePrice3: 1.5 ether	YES, This is valid.
PresalePrice4: 2 ether	YES, This is valid.
Price: 2.5 ether	YES, This is valid.
Owner can set URI, price, and presale prices. Owner also can withdraw funds.	YES, This is valid.

Audit Summary

According to the standard audit assessment, Customer's solidity smart contract is **secured**. These contracts also have owner functions (described in the centralization section below), which does not make everything 100% decentralized. Thus, the owner must execute those smart contract functions as per the business plan.



We used various tools like MythX, Slither and Remix IDE. At the same time this finding is based on critical analysis of the manual audit.

All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the Audit overview section. General overview is presented in AS-IS section and all identified issues can be found in the Audit overview section.

We found 0 critical, 0 high, 0 medium and 1 low and some very low level issues.

Technical Quick Stats

Main Category	Subcategory	Result
Contract	Solidity version not specified	Passed
Programming	Solidity version too old	Moderated
	Integer overflow/underflow	Passed
	Function input parameters lack of check	Passed
	Function input parameters check bypass	Passed
	Function access control lacks management	Passed
	Critical operation lacks event log	Passed
	Human/contract checks bypass	Passed
	Random number generation/use vulnerability	Passed
	Fallback function misuse	Passed
	Race condition	Passed
	Logical vulnerability	Passed
	Other programming issues	Passed
Code	Function visibility not explicitly declared	Passed
Specification	Var. storage location not explicitly declared	Passed
	Use keywords/functions to be deprecated	Passed
	Other code specification issues	Passed
Gas Optimization	"Out of Gas" Issue	Passed
	High consumption 'for/while' loop	Moderated
	High consumption 'storage' storage	Passed
	Assert() misuse	Passed
Business Risk	The maximum limit for mintage not set	Passed
	"Short Address" Attack	Passed
	"Double Spend" Attack	Passed

Overall Audit Result: PASSED

Code Quality

This audit scope has 1 smart contract. This smart contract also contains Libraries, Smart

contracts inherits and Interfaces. This is a compact and well written contract.

The libraries in the Musée Token are part of its logical algorithm. A library is a different

type of smart contract that contains reusable code. Once deployed on the blockchain (only

once), it is assigned a specific address and its properties / methods can be reused many

times by other contracts in the Musée Token.

The Musée team has not provided scenario and unit test scripts, which would have helped

to determine the integrity of the code in an automated way.

Some code parts are **not well** commented on smart contracts.

Documentation

We were given Musée Token smart contract code in the form of a hash code MD5 and

SHA256 format. The hashes of that code are mentioned above in the table.

As mentioned above, some code parts are **not well** commented. So it is difficult to quickly

understand the programming flow as well as complex code logic. Comments are very

helpful in understanding the overall architecture of the protocol.

Another source of information was its official website http://www.musee.art/ which provided

rich information about the project architecture and tokenomics.

Use of Dependencies

As per our observation, the libraries are used in this smart contract infrastructure that are

based on well known industry standard open source projects. And their core code blocks

are written well.

Apart from libraries, its functions are used in external smart contract calls.

AS-IS overview

(1) Interface

(a) IERC721

(2) Inherited contracts

- (a) ERC721
- (b) Ownable

(3) Usages

(a) using SafeMath for uint256;

(4) Events

- (a) event Buyltem(address buyer, uint256 id);
- (b) event NewPrice(uint256 oldPrice, uint256 newPrice);
- (c) event NewPresalePrice1(uint256 oldPrice, uint256 newPrice);
- (d) event NewPresalePrice2(uint256 oldPrice, uint256 newPrice);
- (e) event NewPresalePrice3(uint256 oldPrice, uint256 newPrice);
- (f) event NewPresalePrice4(uint256 oldPrice, uint256 newPrice);
- (g) event NewURI(string oldURI, string newURI);
- (h) event WithdrawBalance(uint256 balance, address to);

(5) Functions

SI.	Functions	Type	Observation	Conclusion
1	buy	internal	Passed	No Issue
2	buyMultiple	external	High Gas Loop	No Issue
3	setUri	external	access only Owner	No Issue
4	setPrice	external	access only Owner	No Issue
5	setPresalePrice1	external	access only Owner	No Issue
6	setPresalePrice2	external	access only Owner	No Issue
7	setPresalePrice3	external	access only Owner	No Issue
8	setPresalePrice4	external	access only Owner	No Issue
9	withdrawFunds	external	access only Owner	No Issue

Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to token loss etc.
High	High-level vulnerabilities are difficult to exploit; however, they also have significant impact on smart contract execution, e.g. public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to tokens lose
Low	Low-level vulnerabilities are mostly related to outdated, unused etc. code snippets, that can't have significant impact on execution
Lowest / Code Style / Best Practice	Lowest-level vulnerabilities, code style violations and info statements can't affect smart contract execution and can be ignored.

Audit Findings

Critical

No critical severity vulnerabilities were found.

High

No high severity vulnerabilities were found.

Medium

No Medium severity vulnerabilities were found.

Low

(1) Possibility of high gas consumption.

```
for (uint256 i = 0; i < _ids.length; i++) {
    buy(_ids[i]);
}
```

If so many NFTs are purchased, then this logic will fail, as it might hit the block's gas limit...

Resolution: Practically, this does not create an issue in most cases. Because the chance of someone buying 1000+ NFT in one go is very rare. So, as long as limited purchases are done, then this is completely ok.

Very Low / Discussion / Best practices:

(1) Use latest solidity version:

```
pragma solidity ^0.7.3;
```

Using the latest solidity will prevent any compiler level bugs.

Resolution: Please use 0.8.5 which is the latest version at a time of this audit.

(2) While purchasing tokens, the user has to provide a list of token IDs. Since people can buy any token ID, the user may not know available token IDs and he has to first find the token IDs he wants to buy. In general user experience scenarios, this may be troublesome.

Resolution: Ideally, there should be an internal token ID counter. Counter gets incremented as new tokens are minted. So, users do not have to specifically provide a list of tokens IDs. On another hand, If current logic is part of the plan, then completely ok.

Centralization

This smart contract has some functions which can be executed by Admin (Owner) only. If the admin wallet private key would be compromised, then it would create trouble. Following are Admin functions:

- withdrawFunds: allows the owner to withdraw funds.
- setUri: Allows the owner to change token URI.
- setPrice: Allows the owner to set the price.
- setPresalePrice1: Allows the owner to set the Presale price1.
- setPresalePrice2: Allows the owner to set the Presale price2.
- setPresalePrice3: Allows the owner to set the Presale price3.
- setPresalePrice4: Allows the owner to set the Presale price4.

Conclusion

We were given a contract code. And we have used all possible tests based on given

objects as files. We observed some issues in the smart contracts and those are

fixed/acknowledged in the smart contracts. So it is good to go for the production.

Since possible test cases can be unlimited for such smart contracts protocol, we provide

no such guarantee of future outcomes. We have used all the latest static tools and manual

observations to cover maximum possible test cases to scan everything.

Smart contracts within the scope were manually reviewed and analyzed with static

analysis tools. Smart Contract's high level description of functionality was presented in

As-is overview section of the report.

Audit report contains all found security vulnerabilities and other issues in the reviewed

code.

Security state of the reviewed contract, based on standard audit procedure scope, is

"Secured".

Our Methodology

We like to work with a transparent process and make our reviews a collaborative effort.

The goals of our security audits are to improve the quality of systems we review and aim

for sufficient remediation to help protect users. The following is the methodology we use in

our security audit process.

Manual Code Review:

In manually reviewing all of the code, we look for any potential issues with code logic, error

handling, protocol and header parsing, cryptographic errors, and random number

generators. We also watch for areas where more defensive programming could reduce the

risk of future mistakes and speed up future audits. Although our primary focus is on the

in-scope code, we examine dependency code and behavior when it is relevant to a

particular line of investigation.

Vulnerability Analysis:

Our audit techniques included manual code analysis, user interface interaction, and

whitebox penetration testing. We look at the project's web site to get a high level

understanding of what functionality the software under review provides. We then meet with

the developers to gain an appreciation of their vision of the software. We install and use

the relevant software, exploring the user interactions and roles. While we do this, we

brainstorm threat models and attack surfaces. We read design documentation, review

other audit results, search for similar projects, examine source code dependencies, skim

open issue tickets, and generally investigate details other than the implementation.

Documenting Results:

We follow a conservative, transparent process for analyzing potential security vulnerabilities and seeing them through successful remediation. Whenever a potential issue is discovered, we immediately create an Issue entry for it in this document, even though we have not yet verified the feasibility and impact of the issue. This process is conservative because we document our suspicions early even if they are later shown to not represent exploitable vulnerabilities. We generally follow a process of first documenting the suspicion with unresolved questions, then confirming the issue through code analysis, live experimentation, or automated tests. Code analysis is the most tentative, and we strive to provide test code, log captures, or screenshots demonstrating our confirmation. After this we analyze the feasibility of an attack in a live system.

Suggested Solutions:

We search for immediate mitigations that live deployments can take, and finally we suggest the requirements for remediation engineering for future releases. The mitigation and remediation recommendations should be scrutinized by the developers and deployment engineers, and successful mitigation and remediation is an ongoing collaborative process after we deliver our report, and before the details are made public.

Disclaimers

EtherAuthority.io Disclaimer

EtherAuthority team has analyzed this smart contract in accordance with the best industry practices at the date of this report, in relation to: cybersecurity vulnerabilities and issues in smart contract source code, the details of which are disclosed in this report, (Source Code); the Source Code compilation, deployment and functionality (performing the intended functions).

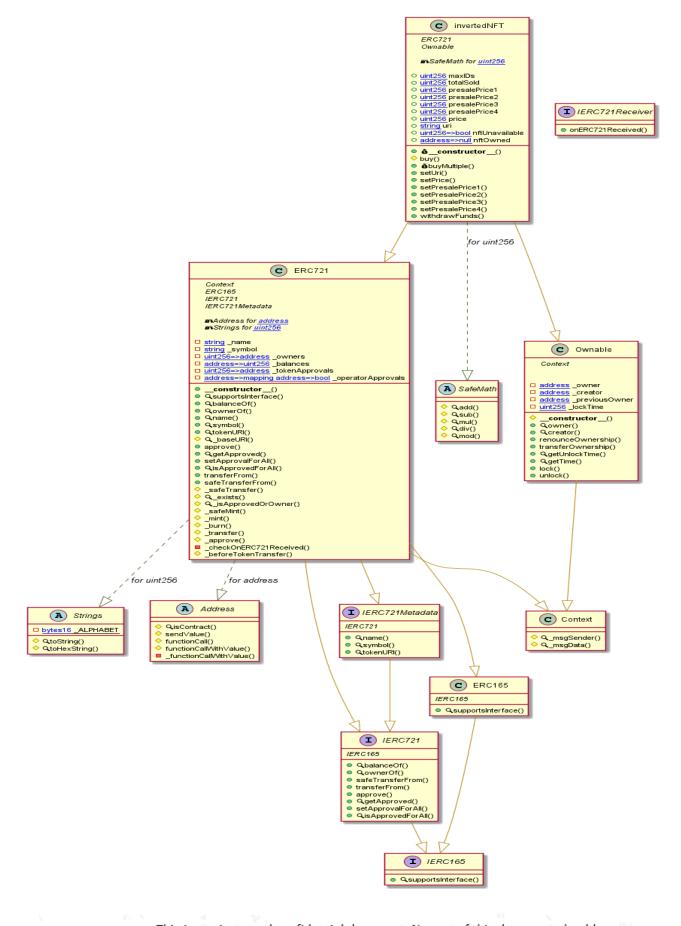
Due to the fact that the total number of test cases are unlimited, the audit makes no statements or warranties on security of the code. It also cannot be considered as a sufficient assessment regarding the utility and safety of the code, bugfree status or any other statements of the contract. While we have done our best in conducting the analysis and producing this report, it is important to note that you should not rely on this report only. We also suggest conducting a bug bounty program to confirm the high level of security of this smart contract.

Technical Disclaimer

Smart contracts are deployed and executed on the blockchain platform. The platform, its programming language, and other software related to the smart contract can have their own vulnerabilities that can lead to hacks. Thus, the audit can't guarantee explicit security of the audited smart contracts.

Appendix

Code Flow Diagram - Musée Token



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Slither Results Log

Slither log >> Musée.sol

INFO:Detectors:

Musée.withdrawFunds() (Musée.sol#1078-1084) sends eth to arbitrary user

Dangerous calls:

- address(owner()).transfer(address(this).balance) (Musée.sol#1083)

Reference:

https://github.com/crytic/slither/wiki/Detector-Documentation#functions-that-send-ether-to-arbitrary-destinations

INFO:Detectors:

Reentrancy in Musée.buy(uint256) (Musée.sol#984-1004):

External calls:

- safeMint(recipient, id) (Musée.sol#993)
 - IERC721Receiver(to).onERC721Received(_msgSender(),from,tokenId,_data)

(Musée.sol#774-784)

State variables written after the call(s):

- nftUnavailable[_id] = true (Musée.sol#996)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-1 INFO:Detectors:

ERC721._checkOnERC721Received(address,address,uint256,bytes) (Musée.sol#767-788) ignores return value by IERC721Receiver(to).onERC721Received(_msgSender(),from,tokenId,_data) (Musée.sol#774-784) Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-return INFO:Detectors:

Variable 'ERC721._checkOnERC721Received(address,address,uint256,bytes).retval (Musée.sol#774)' in ERC721._checkOnERC721Received(address,address,uint256,bytes) (Musée.sol#767-788) potentially used before declaration: retval == IERC721Receiver(to).onERC721Received.selector (Musée.sol#775)

Variable 'ERC721._checkOnERC721Received(address,address,uint256,bytes).reason (Musée.sol#776)' in ERC721._checkOnERC721Received(address,address,uint256,bytes) (Musée.sol#767-788) potentially used before declaration: reason.length == 0 (Musée.sol#777)

Variable 'ERC721._checkOnERC721Received(address,address,uint256,bytes).reason (Musée.sol#776)' in ERC721._checkOnERC721Received(address,address,uint256,bytes) (Musée.sol#767-788) potentially used before declaration: revert(uint256,uint256)(32 + reason,mload(uint256)(reason)) (Musée.sol#781) Reference:

https://github.com/crytic/slither/wiki/Detector-Documentation#pre-declaration-usage-of-local-variables INFO:Detectors:

Reentrancy in Musée.buy(uint256) (Musée.sol#984-1004):

External calls:

- _safeMint(recipient,_id) (Musée.sol#993)
 - IERC721Receiver(to).onERC721Received(_msgSender(),from,tokenId,_data)

(Musée.sol#774-784)

State variables written after the call(s):

- nftOwned[recipient].push(id) (Musée.sol#999)
- totalSold = totalSold.add(1) (Musée.sol#997)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-2 INFO:Detectors:

Reentrancy in Musée.buy(uint256) (Musée.sol#984-1004):

External calls:

- safeMint(recipient, id) (Musée.sol#993)
 - IERC721Receiver(to).onERC721Received(_msgSender(),from,tokenId,_data)

(Musée.sol#774-784)

Event emitted after the call(s):

Buyltem(msg.sender, id) (Musée.sol#1001)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3 INFO:Detectors:

Ownable.unlock() (Musée.sol#925-930) uses timestamp for comparisons

Dangerous comparisons:

- require(bool,string)(now > _lockTime,Contract is locked until 7 days) (Musée.sol#927)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#block-timestamp

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INFO:Detectors:

INFO:Detectors:

Address.isContract(address) (Musée.sol#87-98) uses assembly

- INLINE ASM (Musée.sol#94-96)

Address. functionCallWithValue(address,bytes,uint256,string) (Musée.sol#195-221) uses assembly

- INLINE ASM (Musée.sol#213-216)

ERC721._checkOnERC721Received(address,address,uint256,bytes) (Musée.sol#767-788) uses assembly - INLINE ASM (Musée.sol#780-782)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#assembly-usage INFO:Detectors:

Musée.buy(uint256) (Musée.sol#984-1004) compares to a boolean constant:

-require(bool,string)(nftUnavailable[_id] == false,buy::NFT is already purchased.) (Musée.sol#988)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#boolean-equality INFO:Detectors:

Address._functionCallWithValue(address,bytes,uint256,string) (Musée.sol#195-221) is never used and should be removed

Address.functionCall(address,bytes) (Musée.sol#142-144) is never used and should be removed Address.functionCall(address,bytes,string) (Musée.sol#152-158) is never used and should be removed Address.functionCallWithValue(address,bytes,uint256) (Musée.sol#171-177) is never used and should be removed

Address.functionCallWithValue(address,bytes,uint256,string) (Musée.sol#185-193) is never used and should be removed

Address.sendValue(address,uint256) (Musée.sol#116-122) is never used and should be removed Context._msgData() (Musée.sol#410-413) is never used and should be removed ERC721._burn(uint256) (Musée.sol#702-714) is never used and should be removed SafeMath.div(uint256,uint256) (Musée.sol#843-845) is never used and should be removed SafeMath.div(uint256,uint256,string) (Musée.sol#847-853) is never used and should be removed SafeMath.mod(uint256,uint256) (Musée.sol#855-857) is never used and should be removed SafeMath.mod(uint256,uint256,string) (Musée.sol#859-862) is never used and should be removed SafeMath.sub(uint256,uint256) (Musée.sol#820-822) is never used and should be removed SafeMath.sub(uint256,uint256,string) (Musée.sol#824-829) is never used and should be removed Strings.toHexString(uint256) (Musée.sol#41-52) is never used and should be removed Strings.toHexString(uint256,uint256) (Musée.sol#57-67) is never used and should be removed Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Low level call in Address.sendValue(address,uint256) (Musée.sol#116-122):

- (success) = recipient.call{value: amount}() (Musée.sol#120)

Low level call in Address. functionCallWithValue(address,bytes,uint256,string) (Musée.sol#195-221):

- (success,returndata) = target.call{value: weiValue}(data) (Musée.sol#204)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls INFO:Detectors:

Parameter ERC721.safeTransferFrom(address,address,uint256,bytes)._data (Musée.sol#579) is not in mixedCase

Contract Musée (Musée.sol#933-1085) is not in CapWords

Parameter Musée.buy(uint256)._id (Musée.sol#984) is not in mixedCase

Parameter Musée.buyMultiple(uint256[]). ids (Musée.sol#1010) is not in mixedCase

Parameter Musée.setUri(string)._uri (Musée.sol#1042) is not in mixedCase

Parameter Musée.setPrice(uint256)._price (Musée.sol#1048) is not in mixedCase

Parameter Musée.setPresalePrice1(uint256)._presalePrice1 (Musée.sol#1054) is not in mixedCase

Parameter Musée.setPresalePrice2(uint256)._presalePrice2 (Musée.sol#1060) is not in mixedCase

Parameter Musée.setPresalePrice3(uint256)._presalePrice3 (Musée.sol#1066) is not in mixedCase

Parameter Musée.setPresalePrice4(uint256)._presalePrice4 (Musée.sol#1072) is not in mixedCase Reference:

https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions INFO:Detectors:

Redundant expression "this (Musée.sol#411)" inContext (Musée.sol#405-414)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements INFO:Detectors:

Variable Musée.setPresalePrice1(uint256)._presalePrice1 (Musée.sol#1054) is too similar to Musée.setPresalePrice2(uint256)._presalePrice2 (Musée.sol#1060)

Variable Musée.setPresalePrice1(uint256)._presalePrice1 (Musée.sol#1054) is too similar to Musée.setPresalePrice3(uint256). presalePrice3 (Musée.sol#1066)

Variable Musée.setPresalePrice1(uint256)._presalePrice1 (Musée.sol#1054) is too similar to Musée.setPresalePrice4(uint256)._presalePrice4 (Musée.sol#1072)

Variable Musée.setPresalePrice2(uint256)._presalePrice2 (Musée.sol#1060) is too similar to Musée.setPresalePrice3(uint256)._presalePrice3 (Musée.sol#1066)

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Variable Musée.setPresalePrice2(uint256)._presalePrice2 (Musée.sol#1060) is too similar to Musée.setPresalePrice4(uint256)._presalePrice4 (Musée.sol#1072)

Variable Musée.setPresalePrice3(uint256)._presalePrice3 (Musée.sol#1066) is too similar to

Musée.setPresalePrice4(uint256)._presalePrice4 (Musée.sol#1072)

Variable Musée.presalePrice1 (Musée.sol#963) is too similar to Musée.presalePrice2 (Musée.sol#964)

Variable Musée.presalePrice1 (Musée.sol#963) is too similar to Musée.presalePrice3 (Musée.sol#965)

Variable Musée.presalePrice1 (Musée.sol#963) is too similar to Musée.presalePrice4 (Musée.sol#966)

Variable Musée.presalePrice2 (Musée.sol#964) is too similar to Musée.presalePrice3 (Musée.sol#965)

Variable Musée.presalePrice2 (Musée.sol#964) is too similar to Musée.presalePrice4 (Musée.sol#966)

Variable Musée.presalePrice3 (Musée.sol#965) is too similar to Musée.presalePrice4 (Musée.sol#966)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-are-too-similar INFO:Detectors:

Musée.maxIDs (Musée.sol#960) should be constant

Reference:

https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant INFO:Detectors:

balanceOf(address) should be declared external:

- ERC721.balanceOf(address) (Musée.sol#459-462)

name() should be declared external:

- ERC721.name() (Musée.sol#476-478)

symbol() should be declared external:

- ERC721.symbol() (Musée.sol#483-485)

tokenURI(uint256) should be declared external:

- ERC721.tokenURI(uint256) (Musée.sol#490-495)

approve(address,uint256) should be declared external:

- ERC721.approve(address,uint256) (Musée.sol#509-519)

setApprovalForAll(address,bool) should be declared external:

- ERC721.setApprovalForAll(address,bool) (Musée.sol#533-538)

transferFrom(address,address,uint256) should be declared external:

- ERC721.transferFrom(address,address,uint256) (Musée.sol#550-559)

safeTransferFrom(address,address,uint256) should be declared external:

- ERC721.safeTransferFrom(address,address,uint256) (Musée.sol#564-570)

creator() should be declared external:

- Ownable.creator() (Musée.sol#885-887)

renounceOwnership() should be declared external:

- Ownable.renounceOwnership() (Musée.sol#899-902)

transferOwnership(address) should be declared external:

- Ownable.transferOwnership(address) (Musée.sol#904-908)

Reference:

https://github.com/crytic/slither/wiki/Detector-Documentation#public-function-that-could-be-declared-external INFO:Slither:Musée.sol analyzed (12 contracts with 75 detectors), 70 result(s) found

INFO:Slither:Use https://crytic.io/ to get access to additional detectors and Github integration

