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SMART CONTRACT

Security Audit Report

Project: Datingverse

Website: https://datingverse.org

Platform: Ethereum Language: Solidity

Date: May 7th, 2022

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Introduction

EtherAuthority was contracted by the Datingverse team to perform the Security audit of the Datingverse 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 May 7th, 2022.

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

- Datingverse is a social metaverse for dating based on WEB3 and VR technology.
 As an exploration of SocialFi, Datingverse sets up a "dating to earn" mechanism, while allowing fans to build interactive relationships with content creators through the subscription service.
- The Datingverse is an ERC721A compliant NFT token smart contract.
- The Datingverse contract inherits the Ownable, ReentrancyGuard, Strings, SafeMath, MerkleProof standard smart contracts from the OpenZeppelin library.
- These OpenZeppelin contracts are considered community-audited and time-tested, and hence are not part of the audit scope.

Audit scope

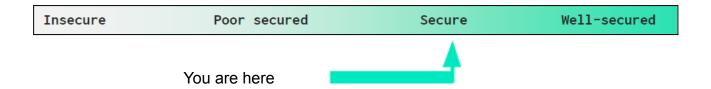
Name	Code Review and Security Analysis Report for Datingverse Token Smart Contract
Platform	Ethereum / Solidity
File	Datingverse.sol
File MD5 Hash	4FD9359F7E8174E18C2FB9714A2F367D
Audit Date	May 7th, 2022
Revision Code MD5 Hash	AC40AFDB8A22D141D30610AB8B630D3F
Revision Date	May 11th, 2022

Claimed Smart Contract Features

Claimed Feature Detail	Our Observation
Tokenomics:	YES, This is valid.
Name: Datingverse	
Symbol: Datingverse	
Maximum Total Diamond Supply: 500	
Maximum Total Supply: 5000	
Maximum Mint: 2	
Price: 0.1 ether	
 Refund Guarantee Active Function 	
 Refunded NFTs will be burned 	
 The owner can withdraw ether from the 	
contract after the Refund Guarantee period	
(which is 10 days) is over.	

Audit Summary

According to the standard audit assessment, Customer's solidity based smart contracts are "Secured". This token contract does contain owner control, which does not make it fully decentralized.



We used various tools like Slither, Solhint 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.

These issues are fixed / acknowledged in the revised contract code.

Investors Advice: Technical audit of the smart contract does not guarantee the ethical nature of the project. Any owner controlled functions should be executed by the owner with responsibility. All investors/users are advised to do their due diligence before investing in the project.

Technical Quick Stats

Main Category	Subcategory	Result
Contract	Solidity version not specified	Passed
Programming	Solidity version too old	Passed
	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	Moderated
	Human/contract checks bypass	Passed
	Random number generation/use vulnerability	N/A
	Fallback function misuse	Passed
	Race condition	Passed
	Logical vulnerability	Passed
	Features claimed	Passed
	Other programming issues	Moderated
Code	Function visibility not explicitly declared	Passed
Specification	Var. storage location not explicitly declared	Passed
	Use keywords/functions to be deprecated	Passed
	Unused code	Passed
Gas Optimization	"Out of Gas" Issue	Passed
	High consumption 'for/while' loop	Passed
	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. Smart contract contains Libraries, Smart contracts,

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

The libraries in Datingverse 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 Datingverse Token.

The Datingverse Token team has **not** provided scenario and unit test scripts, which would

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

Code parts are not commented on in the smart contracts. Ethereum's NatSpec

commenting style is recommended.

Documentation

We were given a Datingverse Token smart contract code in the form of a File. The hash of

that code is mentioned above in the table.

As mentioned above, code parts are **not** well commented. But the contract is

straightforward so it's easy to understand its programming logic.

Another source of information was its official website https://datingverse.org 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.

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

AS-IS overview

Functions

SI.	Functions	Туре	Observation	Conclusion
1	constructor	write	Passed	No Issue
2	owner	read	Passed	No Issue
3	onlyOwner	modifier	Passed	No Issue
4	renounceOwnership	write	access only Owner	No Issue
5	transferOwnership	write	access only Owner	No Issue
6	transferOwnership	internal	Passed	No Issue
7	nonReentrant	modifier	Passed	No Issue
8	reserveDatingverses	external	access only Owner	No Issue
9	callerIsUser	modifier	Passed	No Issue
10	mintQuantityVerify	modifier	Passed	No Issue
11	mintPriceVerify	modifier	Passed	No Issue
12	setStatus	external	access only Owner	No Issue
13	setMerkleRoot	external	access only Owner	No Issue
14	setDiamondPreMerkleRoot	external	access only Owner	No Issue
15	setDiamondMerkleRoot	external	access only Owner	No Issue
16	getPrice	read	Passed	No Issue
17	diamondPreMint	external	Passed	No Issue
18	diamondMint	external	Passed	No Issue
19	whiteMint	external	Passed	No Issue
20	publicMint	external	Passed	No Issue
21	_baseURI	internal	Passed	No Issue
22	setBaseURI	external	access only Owner	No Issue
23	tokenURI	read	Passed	No Issue
24	togglePlaceholder	external	access only Owner	No Issue
25	withdraw	external	access only Owner	No Issue
26	refund	external	Passed	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
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 Severity

No Critical severity vulnerabilities were found.

High Severity

No High severity vulnerabilities were found.

Medium

No Medium severity vulnerabilities were found.

Low

(1) Missing events in many functions:

It is good practice to emit appropriate events in the contract when significant state change is being done. This helps UI / clients to properly coordinate with the blockchain. Following functions can have an event:

- setStatus
- setMerkleRoot
- setDiamondPreMerkleRoot
- setDiamondMerkleRoot
- setBaseURI
- togglePlaceholder
- withdraw
- refund

Status: This issue is acknowledged

Very Low / Informational / Best practices:

(1) SafeMath Library:

SafeMath Library is used in this contract code, but the compiler version is greater than or equal to 0.8.0, Then it will be not required to use, solidity automatically handles overflow/underflow.

Resolution: Remove the SafeMath library and use normal math operators, It will improve code size, and less gas consumption.

Status: This issue is acknowledged

(2) These loops can be merged

```
function refund(uint256[] memory tokenIds) external callerIsUser {
    require(status == Status.Refund, "refund has not started yet");
    require(tokenIds.length > 0, "no tokenId support");
    require(tokenIds.length <= maxTotalSupply, "Invalid token");
    for (uint i = 0; i < tokenIds.length; i++) {
        require(ownerOf(tokenIds[i]) == msg.sender, "Invalid owner");
    }
    for (uint256 i = 0; i < tokenIds.length; i++) {
        _burn(tokenIds[i]);
    }
    uint256 totalCost = PRICE * tokenIds.length;
    Address.sendValue(payable(msg.sender), totalCost);</pre>
```

The "for loops" in this function can be merged as their iterations are the same. Although this does not raise any security issues, to make the code clean and to increase the readability, we suggest combining these both loops.

Status: This issue is fixed in the revised code

Centralization

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

- reserveDatingverses: Owner can reserve some Datingverses.
- setStatus: Owner can set status.
- setMerkleRoot: Owner can set merkle root value.
- setDiamondPreMerkleRoot: Owner can set diamond pre merkle root.
- setDiamondMerkleRoot: Owner can set diamond merkle root.
- setBaseURI: Owner can set baseURI.
- togglePlaceholder: Owner can toggle placeholder.
- withdraw: Owner can withdraw contract balance to creator.

To make the smart contract 100% decentralized, we suggest renouncing ownership in the smart contract once its function is completed.

Conclusion

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

objects as files. We have not observed any major issue. So, it's good to go for the

mainnet deployment.

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 the

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 smart 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).

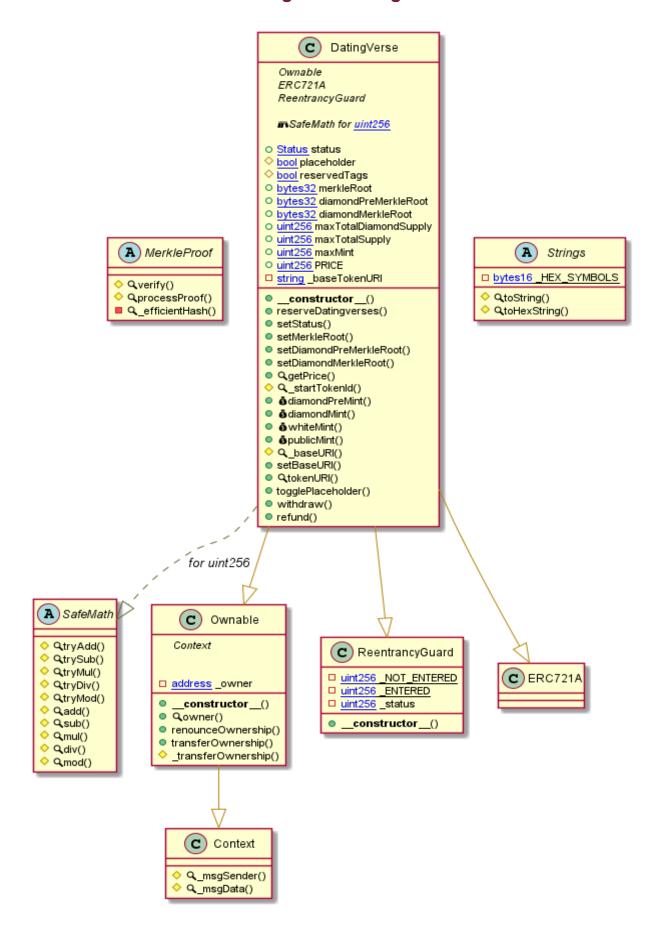
Due to the fact that the total number of test cases are unlimited, the audit makes no statements or warranties on security of the code. It also cannot be considered as a sufficient assessment regarding the utility and safety of the code, bugfree status or any other statements of the contract. While we 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 - Datingverse Token



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Slither Results Log

Slither Log >> Datingverse.sol

```
INFO:Detectors:
DatingVerse.setStatus(DatingVerse.Status)._status (Datingverse.sol#1300) shadows:
- ReentrancyGuard._status (Datingverse.sol#1230) (state variable)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
 INFO:Detectors:

Variable 'ERC721A._checkOnERC721Received(address,address,uint256,bytes).retval (Datingverse.sol#1102)' in ERC721A._checkOnERC7 ceived(address,address,uint256,bytes) (Datingverse.sol#1095-1116) potentially used before declaration: retval == IERC721ReceivenERC721Received.selector (Datingverse.sol#1103)

Variable 'ERC721A._checkOnERC721Received(address,address,uint256,bytes).reason (Datingverse.sol#1104)' in ERC721A._checkOnERC7 ceived(address,address,uint256,bytes).reason (Datingverse.sol#1104)' in ERC721A._checkOnERC7 ceived(address,address,uint256,bytes).reason (Datingverse.sol#1105)

Variable 'ERC721A._checkOnERC721Received(address.address.uint256,bytes).reason (Datingverse.sol#1104)' in ERC721A._checkOnERC7
    erse.sut#1105)
Variable 'ERC721A._checkOnERC721Received(address,address,uint256,bytes).reason (Datingverse.sol#1104)' in ERC721A._checkOnERC7
ceived(address,address,uint256,bytes) (Datingverse.sol#1095-1116) potentially used before declaration: revert(uint256,uint256)
+ reason,mload(uint256)(reason)) (Datingverse.sol#1109)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#pre-declaration-usage-of-local-variables
Reference: https://github.com/crytic/section/make,

INFO:Detectors:

MerkleProof._efficientHash(bytes32,bytes32) (Datingverse.sol#193-199) uses assembly

- INLINE ASM (Datingverse.sol#194-198)

Address.verifyCallResult(bool,bytes,string) (Datingverse.sol#393-413) uses assembly

- INLINE ASM (Datingverse.sol#405-408)

ERC721A._checkOnERC721Received(address,address,uint256,bytes) (Datingverse.sol#1095-1116) uses assembly

- INLINE ASM (Datingverse.sol#1108-1110)

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

INEO:Detectors:
     INFO:Detectors:
Address.functionCall(address,bytes) (Datingverse.sol#277-279) is never used and should be removed
Address.functionCall(address,bytes,string) (Datingverse.sol#287-293) is never used and should be removed
Address.functionCallWithValue(address,bytes,uint256) (Datingverse.sol#306-312) is never used and should be removed
Address.functionCallWithValue(address,bytes,uint256,string) (Datingverse.sol#320-331) is never used and should be removed
Address.functionDelegateCall(address,bytes) (Datingverse.sol#366-368) is never used and should be removed
Address.functionDelegateCall(address,bytes,string) (Datingverse.sol#376-385) is never used and should be removed
Address.functionStaticCall(address,bytes) (Datingverse.sol#339-341) is never used and should be removed
Address.functionStaticCall(address,bytes,string) (Datingverse.sol#349-358) is never used and should be removed
Address.verifvcallResult(bool.bytes.string) (Datingverse.sol#393-443) is never used and should be removed
      Address.functionStaticali(address,bytes,string) (batingverse.sol#393-343) is never used and should be removed
Address.verifyCallResult(bool,bytes,string) (Datingverse.sol#393-413) is never used and should be removed
Context. msgData() (Datingverse.sol#691-693) is never used and should be removed
ERC721A._baseURI() (Datingverse.sol#816-818) is never used and should be removed
    SafeMath.add(uint256,uint256) (Datingverse.sol#492-494) is never used and should be removed SafeMath.div(uint256,uint256) (Datingverse.sol#534-536) is never used and should be removed SafeMath.div(uint256,uint256,string) (Datingverse.sol#590-599) is never used and should be removed SafeMath.mod(uint256,uint256,string) (Datingverse.sol#550-552) is never used and should be removed SafeMath.mod(uint256,uint256) (Datingverse.sol#550-552) is never used and should be removed SafeMath.mod(uint256,uint256) (Datingverse.sol#520-522) is never used and should be removed SafeMath.sub(uint256,uint256) (Datingverse.sol#506-508) is never used and should be removed SafeMath.sub(uint256,uint256) (Datingverse.sol#506-508) is never used and should be removed SafeMath.tryAdd(uint256,uint256) (Datingverse.sol#566-576) is never used and should be removed SafeMath.tryMod(uint256,uint256) (Datingverse.sol#421-427) is never used and should be removed SafeMath.tryMod(uint256,uint256) (Datingverse.sol#463-468) is never used and should be removed SafeMath.tryMod(uint256,uint256) (Datingverse.sol#464-456) is never used and should be removed SafeMath.tryMod(uint256,uint256) (Datingverse.sol#484-456) is never used and should be removed SafeMath.trySub(uint256,uint256) (Datingverse.sol#484-439) is never used and should be removed SafeMath.trySub(uint256,uint256) (Datingverse.sol#468-456) is never used and should be removed Strings.toHexString(uint256,uint256) (Datingverse.sol#674-684) is never used and should be removed Strings.toHexString(uint256,uint256) (Datingverse.sol#674-684) is never used and should be removed Strings.toHexString(uint256,uint256) (Datingverse.sol#674-684) is never used and should be removed Strings.toHexString(uint256,uint256) (Datingverse.sol#674-684) is never used and should be removed Strings.toHexString(uint256,uint256) (Datingverse.sol#674-684) is never used and should be removed Strings.toHexString(uint256,uint256) (Datingverse.sol#674-684) is never used and should be removed Strings.toHexString(uint256,uint256) 
      involbetectors:
Pragma version^0.8.4 (Datingverse.sol#2) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6
Pragma version^0.8.4 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
 Reference: https://github.com/crytic/sittler/wiki/betecter.
INFO:Detectors:
Low level call in Address.sendValue(address,uint256) (Datingverse.sol#252-257):
- (success) = recipient.call{value: amount}() (Datingverse.sol#255)
Low level call in Address.functionCallwithValue(address,bytes,uint256,string) (Datingverse.sol#320-331):
- (success,returndata) = target.call{value: value}(data) (Datingverse.sol#329)
Low level call in Address.functionStaticCall(address,bytes,string) (Datingverse.sol#349-358):
- (success,returndata) = target.staticcall(address,bytes,string) (Datingverse.sol#376-385):
- (success,returndata) = target.delegatecall(address,bytes,string) (Datingverse.sol#383)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls
INFO:Detectors:
     inro.Detectors.
Parameter DatingVerse.setStatus(DatingVerse.Status)._status (Datingverse.sol#1300) is not in mixedCase
Variable DatingVerse.PRICE (Datingverse.sol#1272) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions
  INFO:Detectors:
Parameter DatingVerse.setStatus(DatingVerse.Status)._status (Datingverse.sol#1300) is not in mixedCase
Variable DatingVerse.PRICE (Datingverse.sol#1272) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions
```

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Solidity Static Analysis

Datingverse.sol

Security

Transaction origin:

Use of tx.origin: "tx.origin" is useful only in very exceptional cases. If you use it for authentication, you usually want to replace it by "msg.sender", because otherwise any contract you call can act on your behalf.

more

Pos: 47:16:

Gas & Economy

Gas costs:

Gas requirement of function DatingVerse.maxTotalDiamondSupply is infinite: If the gas requirement of a function is higher than the block gas limit, it cannot be executed. Please avoid loops in your functions or actions that modify large areas of storage (this includes clearing or copying arrays in storage)

Pos: 28:4:

Gas costs:

Gas requirement of function DatingVerse.withdraw is infinite: If the gas requirement of a function is higher than the block gas limit, it cannot be executed. Please avoid loops in your functions or actions that modify large areas of storage (this includes clearing or copying arrays in storage)
Pos: 123:4:

Gas costs:

Gas requirement of function DatingVerse.refund is infinite: If the gas requirement of a function is higher than the block gas limit, it cannot be executed. Please avoid loops in your functions or actions that modify large areas of storage (this includes clearing or copying arrays in storage)

Pos: 129:4:

For loop over dynamic array:

Loops that do not have a fixed number of iterations, for example, loops that depend on storage values, have to be used carefully. Due to the block gas limit, transactions can only consume a certain amount of gas. The number of iterations in a loop can grow beyond the block gas limit which can cause the complete contract to be stalled at a certain point. Additionally, using unbounded loops incurs in a lot of avoidable gas costs. Carefully test how many items at maximum you can pass to such functions to make it successful.

<u>more</u>

Pos: 136:8:

Miscellaneous

Constant/View/Pure functions:

DatingVerse.tokenURI(uint256): Is constant but potentially should not be. Note: Modifiers are currently not considered by this static analysis.

more

Pos: 111:4:

Guard conditions:

Use "assert(x)" if you never ever want x to be false, not in any circumstance (apart from a bug in your code). Use "require(x)" if x can be false, due to e.g. invalid input or a failing external component.

more

Pos: 47:8:

Guard conditions:

Use "assert(x)" if you never ever want x to be false, not in any circumstance (apart from a bug in your code). Use "require(x)" if x can be false, due to e.g. invalid input or a failing external component.

<u>more</u>

Pos: 51:8:

Guard conditions:

Use "assert(x)" if you never ever want x to be false, not in any circumstance (apart from a bug in your code). Use "require(x)" if x can be false, due to e.g. invalid input or a failing external component.

more

Pos: 52:8:

Guard conditions:

Use "assert(x)" if you never ever want x to be false, not in any circumstance (apart from a bug in your code). Use "require(x)" if x can be false, due to e.g. invalid input or a failing external component.

more

Pos: 132:8:

Guard conditions:

Use "assert(x)" if you never ever want x to be false, not in any circumstance (apart from a bug in your code). Use "require(x)" if x can be false, due to e.g. invalid input or a failing external component.

<u>more</u>

Pos: 134:12:

Solhint Linter

Datingverse.sol

```
Datingverse.sol:8:1: Error: Compiler version ^0.8.7 does not satisfy the r semver requirement
Datingverse.sol:23:5: Error: Explicitly mark visibility of state
Datingverse.sol:24:5: Error: Explicitly mark visibility of state
Datingverse.sol:31:30: Error: Variable name must be in mixedCase
Datingverse.sol:32:5: Error: Explicitly mark visibility in function
(Set ignoreConstructors to true if using solidity >=0.7.0)
Datingverse.sol:47:17: Error: Avoid to use tx.origin
Datingverse.sol:56:48: Error: Use double quotes for string literals
```

Software analysis result:

These software reported many false positive results and some are informational issues. So, those issues can be safely ignored.



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