



SOLIDProof
Bring trust into your projects

**Blockchain Security | Smart Contract Audits | KYC
Development | Marketing**

MADE IN GERMANY

Greelance

AUDIT

SECURITY ASSESSMENT

29. March, 2024

FOR



GREELANCE



SolidProof_io



@solidproof_io

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Introduction

[SolidProof.io](#) is a brand of the officially registered company MAKE Network GmbH, based in Germany. We're mainly focused on Blockchain Security such as Smart Contract Audits and KYC verification for project teams.

Solidproof.io assess potential security issues in the smart contracts implementations, review for potential inconsistencies between the codebase and the whitepaper/documentation, and provide suggestions for improvement.

Disclaimer

[SolidProof.io](#) reports are not, nor should be considered, an "endorsement" or "disapproval" of any particular project or team. These reports are not, nor should be considered, an indication of the economics or value of any "product" or "asset" created by any team. SolidProof.io do not cover testing or auditing the integration with external contract or services (such as Unicrypt, Uniswap, PancakeSwap etc'...)

SolidProof.io Audits do not provide any warranty or guarantee regarding the absolute bug-free nature of the technology analyzed, nor do they provide any indication of the technology proprietors. SolidProof Audits should not be used in any way to make decisions around investment or involvement with any particular project. These reports in no way provide investment advice, nor should be leveraged as investment advice of any sort.

SolidProof.io Reports represent an extensive auditing process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology. Blockchain technology and cryptographic assets present a high level of ongoing risk. SolidProof's position is that each company and individual are responsible for their own due diligence and continuous security. SolidProof in no way claims any guarantee of security or functionality of the technology we agree to analyze.

Project Overview

Summary

Project Name	Greelance
Website	<u>https://greelance.com/</u>
About the project	Greelance is decentralizing employment, increasing reliability, and multiplying growth by bringing leading companies and brilliant minds together. Yes! we have an AI platform that uses intuitive machine learning to hunt for the smartest match to kickstart your projects.
Chain	Solana
Language	Rust
Codebase	<u>https://solscan.io/token/5SdzFAro6rWP86LTxgcYbYHHAofmu5tZSk5u6kEP8ckf</u>
Commit	N/A
Unit Tests	Not Provided

Social Medias

Telegram	<u>https://t.me/greelancer</u>
Twitter	<u>https://twitter.com/Greelancel</u>
Facebook	<u>https://www.facebook.com/greelance</u>
Instagram	N/A
GitHub	N/A
Reddit	N/A
Medium	N/A
Discord	<u>https://discord.gg/ukNCBwQCD9</u>
YouTube	N/A
TikTok	N/A
LinkedIn	<u>https://www.linkedin.com/company/greelance/</u>

Audit Summary

Version	Delivery Date	Change Log
v1.0	29. March 2024	<ul style="list-style-type: none"> · Layout Project · Automated/Manual Functionality Review · Summary

Note - The following audit report presents a comprehensive security analysis of the smart contract utilized in the project. This analysis did not include functional testing (or unit testing) of the contract's logic. We cannot guarantee 100% logical correctness of the contract as it was not functionally tested by us.

File Overview

The Team provided us with the files that should be tested in the securityassessment. This audit covered the following files listed below with a SHA-1 Hash.

1. n/a

Please note: Files with a different hash value than in this table have been modified after the security check, either intentionally or unintentionally. A different hash value may (but need not) be an indication of a changed state or potential vulnerability that was not the subject of this scan.

Imported packages

Used code from other Frameworks.

1. n/a

Audit Information

Vulnerability & Risk Level

Risk represents the probability that a certain source-threat will exploit vulnerability, and the impact of that event on the organization or system. Risk Level is computed based on CVSS version 3.0.

Level	Value	Vulnerability	Risk (Required Action)
Critical	9 - 10	A vulnerability that can disrupt the contract functioning in a number of scenarios, or creates a risk that the contract may be broken.	Immediate action to reduce risk level.
High	7 - 8.9	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.	Implementation of corrective actions as soon as possible.
Medium	4 - 6.9	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.	Implementation of corrective actions in a certain period.
Low	2 - 3.9	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.	Implementation of certain corrective actions or accepting the risk.
Informational	0 - 1.9	A vulnerability that have informational character but is not effecting any of the code.	An observation that does not determine a level of risk

Auditing Strategy and Techniques Applied

Throughout the review process, care was taken to check the repository for security- related issues, code quality, and compliance with specifications and best practices. To this end, our team of experienced pen-testers and smart contract developers reviewed the code line by line and documented any issues discovered.

We check every file manually. We use automated tools only so that they help us achieve faster and better results.

Methodology

The auditing process follows a routine series of steps:

1. Code review that includes the following:
 - a. Reviewing the specifications, sources, and instructions provided to SolidProof to ensure we understand the size, scope, and functionality of the smart contract.
 - b. Manual review of the code, i.e., reading the source code line by line to identify potential vulnerabilities.
 - c. Comparison to the specification, i.e., verifying that the code does what is described in the specifications, sources, and instructions provided to SolidProof.
2. Testing and automated analysis that includes the following:
 - a. Test coverage analysis, which determines whether test cases actually cover code and how much code is executed when those test cases are executed.
 - b. Symbolic execution, which is analysing a program to determine what inputs causes each part of a program to execute.
3. Review best practices, i.e., review smart contracts to improve efficiency, effectiveness, clarity, maintainability, security, and control based on best practices, recommendations, and research from industry and academia.
4. Concrete, itemized and actionable recommendations to help you secure your smart contracts.



Overall Security

Upgradeability

Contract is not an upgradeable



Deployer cannot update the contract with new functionalities

Description

The contract is not an upgradeable contract. The deployer is not able to change or add any functionalities to the contract after deploying.

Comment

N/A

Ownership

The ownership is not renounced

✗ The owner is not renounced

Description

The owner has not renounced the ownership that means that the owner retains control over the contract's operations, including the ability to execute functions that may impact the contract's users or stakeholders. This can lead to several potential issues, including:

- Centralizations
- The owner has significant control over contract's operations

Example

We assume that you have funds in the contract and it has been audited by any security audit firm. Now the audit has passed. After that, the deployer can upgrade the contract to allow him to transfer the funds you purchased without any approval from you. This has the consequence that your funds can be taken by the creator.

Comment

N/A

Note - If the contract is not deployed then we would consider the ownership to be not renounced. Moreover, if there are no ownership functionalities then the ownership is automatically considered renounced.



Ownership Privileges

These functions can be dangerous. Please note that abuse can lead to financial loss. We have a guide where you can learn more about these Functions.

Minting tokens

Minting tokens refers to the process of creating new tokens in a cryptocurrency or blockchain network. This process is typically performed by the project's owner or a designated authority, who has the ability to add new tokens to the network's total supply.

Contract owner cannot mint tokens

 **mintAuthority revoked**

Description	The owner is not able to mint tokens without any allowances.
Comment	N/A



Burning tokens

Burning tokens is the process of permanently destroying a certain number of tokens, reducing the total supply of a cryptocurrency or token. This is usually done to increase the value of the remaining tokens, as the reduced supply can create scarcity and potentially drive up demand.

Contract owner cannot burn tokens

☒ The owner cannot burn tokens

Description The owner is not able burn tokens without any allowances.

Comment N/A



Fees and Tax

In some smart contracts, the owner or creator of the contract can set fees for certain actions or operations within the contract. These fees can be used to cover the cost of running the contract, such as paying for gas fees or compensating the contract's owner for their time and effort in developing and maintaining the contract.

Contract owner cannot set fees more than 25%

 **The owner cannot set Fees or taxes**

Description

The owner is not able to set the fees above 25%

Comment

N/A



Lock User Funds

In a smart contract, locking refers to the process of restricting access to certain tokens or assets for a specified period of time. When tokens or assets are locked in a smart contract, they cannot be transferred or used until the lock-up period has expired or certain conditions have been met.

Contract owner cannot freeze tokens

 **freezeAuthority revoked**

Description	The owner is not able freeze tokens without any allowances.
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Comment	N/A
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Audit Results

Critical Issues

#1 | freezeAuthority not revoked

File	Severity	Location	Status
Greelance	Critical	--	Fixed

Description

The Owner of the Authority wallet is able to freeze token in a user account. You can revoke the mintAuthority by using spl-token cli.

High Issues

No high issues

Medium Issues

#1 | mintAuthortiy not revoked

File	Severity	Location	Status
Greelance	Medium	--	Fixed

Description

The Owner of the Authority wallet is able to mint new token and can probably sell them without the knowing of the users. You can revoke the mintAuthority by using spl-token cli.

Low Issues

#1 | Token metadata are mutable

File	Severity	Location	Status
Greelance	Low	--	Open

Description

Token metadata are mutable by the updateAuthority and can be changed at any time by the Authority.

Informational Issues

#1 | Token metadata

File	Severity	Location	Status
Greelance	Informational	--	Open

Description

Token metadata are saved on "https://ipfs.nftstorage.link/" storage for an indefinite period. We recommend using the Arweave blockchain for indefinite storage (as the most popular tokens on the Solana blockchain use this service, which ensures uninterrupted operation)



Legend For the Issue Status

Attribute or Symbol	Meaning
Open	The issue is not fixed by the project team.
Fixed	The issue is fixed by the project team.
Acknowledged(ACK)	The issue has been acknowledged or declared as part of business logic.



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