CONTRACT CHECKER
Blockchain Solutions

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Anywhere on the Blockchain

Date: 01.12.2022

Security Audit

FARMAROK DAPP REVIEW

Harry K

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Audit Result

FARMAROK Dapp's has successfully PASSED the Dapp audit

(Other unknown security vulnerabilities are not included in the audit responsibility scope)

Audit Result:	PASSED
Ownership:	Not renounced yet
KYC Verification:	NA at the date of report edition
Audit Date:	December 01, 2022
Audit Team:	CONTRACTCHECKER

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SUMMARY

CONTRACTCHECKER received an application from FARMAROK team to review and audit their Dapp's on November 28, 2022, to discover if any vulnerability and security bugs in FARMAROK DAPP's. Detailed test has been performed using Static Analysis and Manual Review techniques.

The auditing process focuses to the following considerations with collaboration of an expert team

- Functionality test of the Dapp's for every utility to determine if proper logic has been followed throughout the whole process.
- Manually detailed examination of the Dapp's experts.
- Live test by multiple clients using Testnet.
- Analysing failure preparations to check how the Dapp's performs in case of any bugs and vulnerabilities.
- Checking whether all the libraries used in the code are on the latest version.
- Analysing the security of the on-chain data.

Project Summary

Project Name	FARMAROK
Web Site	https://www.farmarok.cash/
Twitter	https://twitter.com/farmarok_cash
Telegram	https://t.me/Farmarok_Cash
Dapp Link _ Lottery	https://farmarok-dapp.netlify.app/lottery
Dapp Link _ Prediction	https://farmarok-dapp.netlify.app/prediction
Dapp Link Referral	https://farmarok-dapp.netlify.app/referral

FARMAROK project owns a multi utility Dapp which has below utilities belongs to their ecosystem

- Lottery Dapp
- Lottery Listing Dapp
- Prediction Dapp
- Referral Dapp

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OVERVIEW

This Audit Report mainly focuses on overall security of FARMAROK DAPP. Contract Checker team reviewed and assessed overall functionalities, database, security, compliance and system architecture against vulnerabilities, exploitations, hacks, and back-doors to ensure its reliability and safety.

Auditing Approach and Applied Methodologies

Contract Checker team has performed rigorous test procedures of the project

- Functionality tests including Code design patterns analysis in which Dapp architecture is reviewed to ensure it is structured according to industry standards and safe to use.

- Database inspection of the Dapp to ensure that those without the permission to access information do not access it.

- Security auditing would comprise of a complete analysis of the safety measure with regards to data, working and networking within the decentralized application. Various test and scenarios would be played out to understand the security strength. Also, the international security standards are expected to be followed with the application.

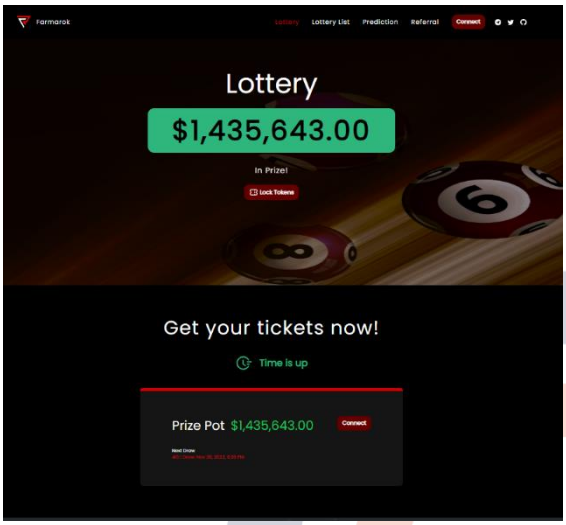
- Complience auditing, we make sure the application adheres to the relevant and necessary compliance. It is also matched with the latest in the latest development in world of tech compliances.

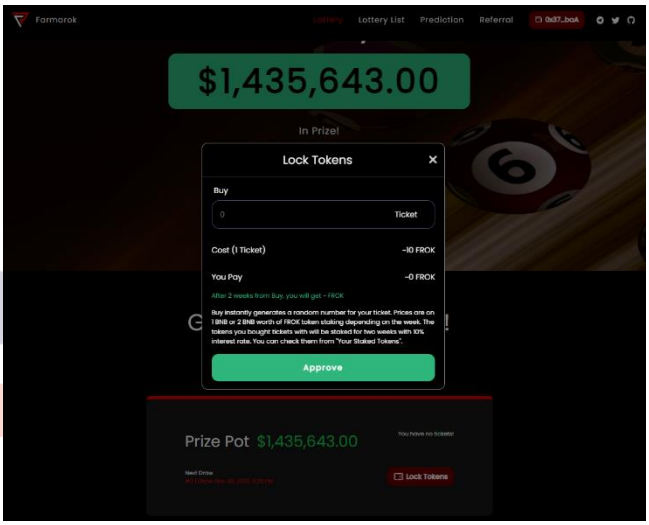
The focus of the audit was to verify that the Decentralized Application System is secure, resilient, and working according to the specifications. The audit activities can be grouped in the following three categories:

Functionality

➢ Lottery Dapp

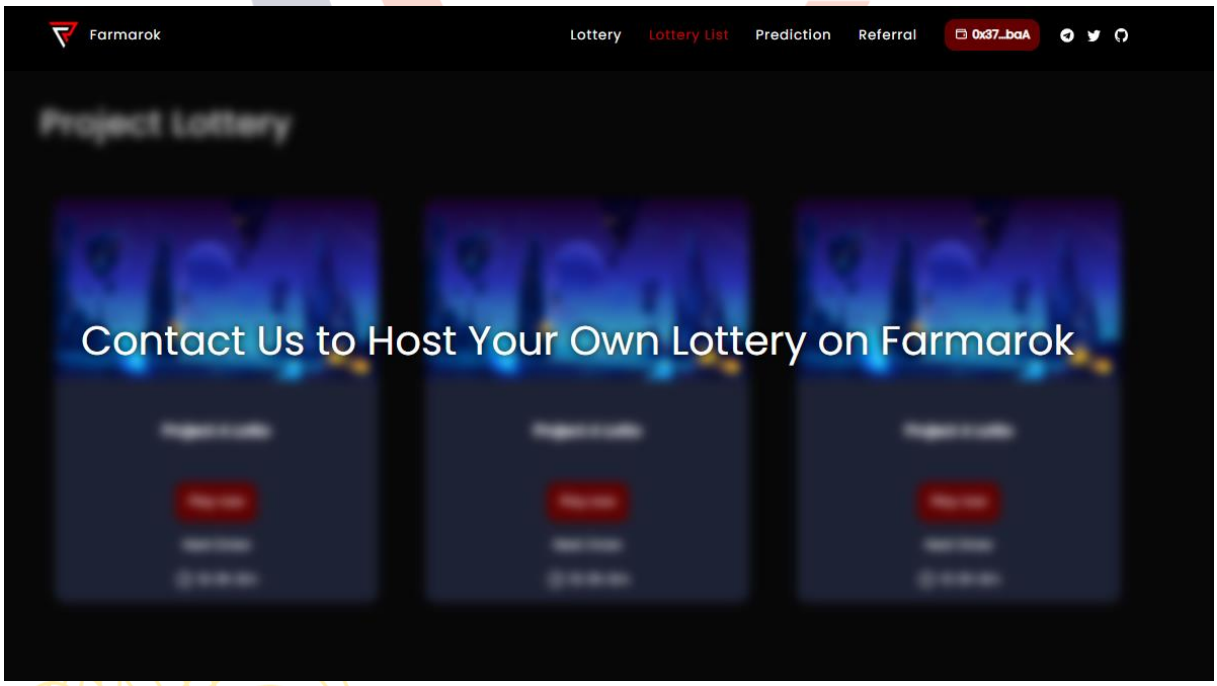
Lottery Dapp is fully functional and user friendly. The features of the Dapp are working as supposed to be and passed functionality test.





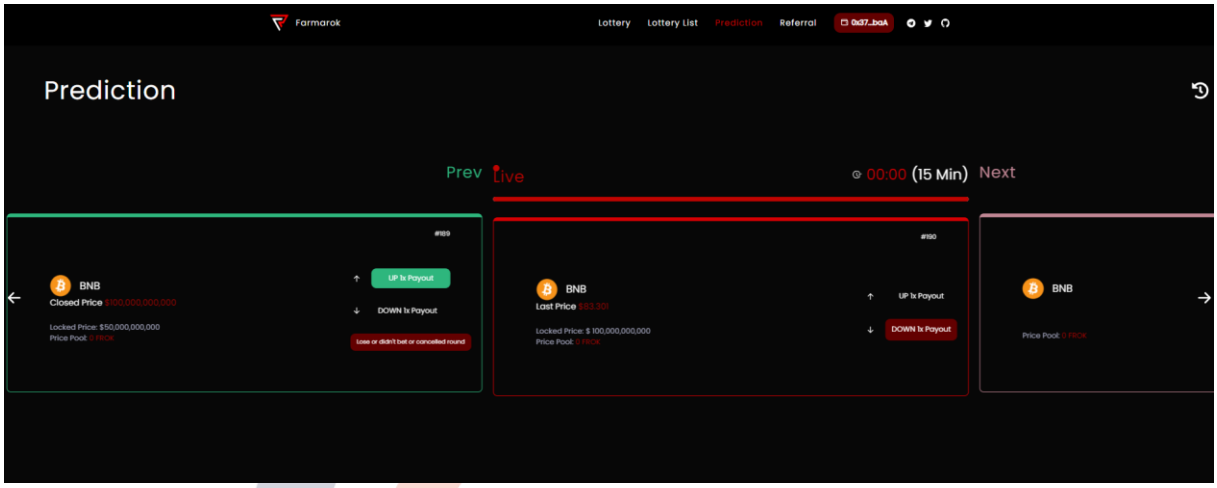
➢ Lottery List Dapp

Lottery Listing Application is designed to list new WEB3 based lottery pools easily. Application is passed functionality test.



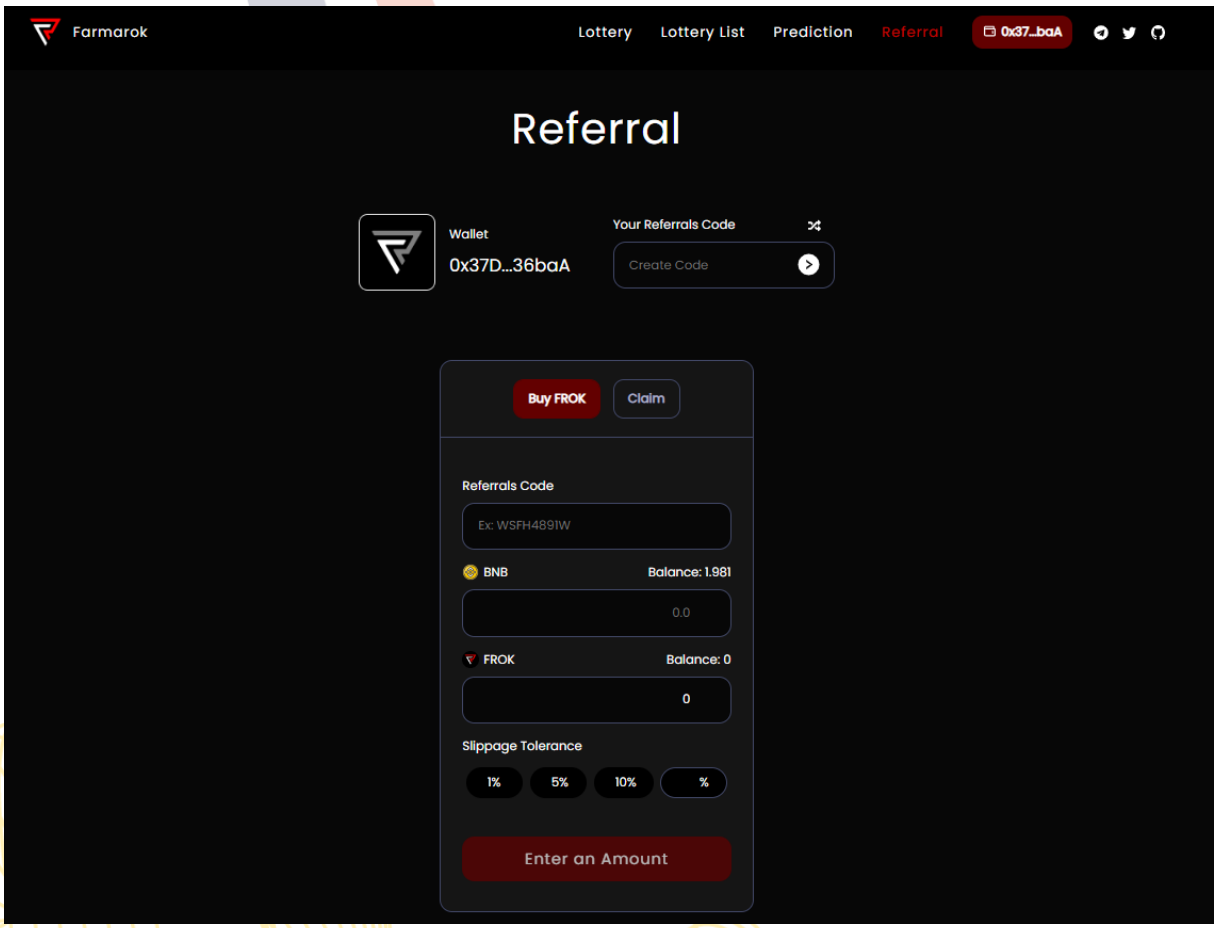
➢ Prediction Dapp

Prediction Dapp is WEB3 application based on to predict direction of tokens volatility which is fetching the price from live market data. The application is working as supposed to be and passed functionality test.



➢ Referral Dapp

Referral Dapp is supposed to share referral bonus with users who add new investors to the project. The application is working as supposed to be and passed functionality test.

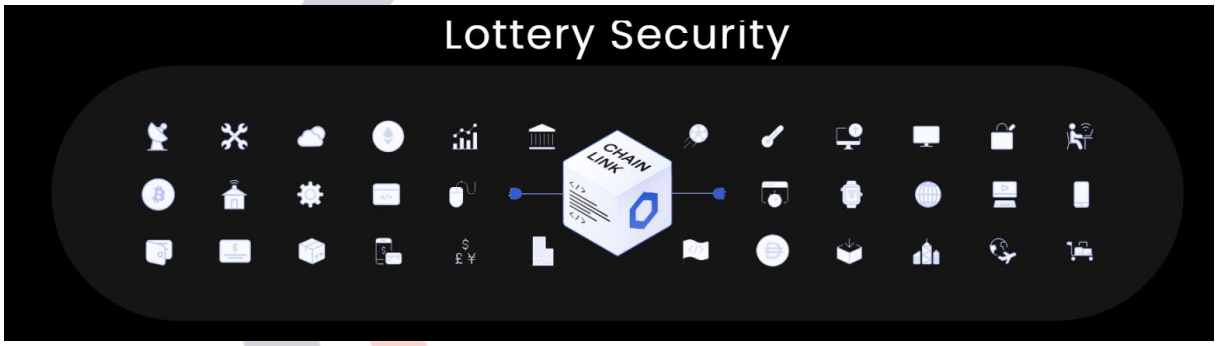


Database

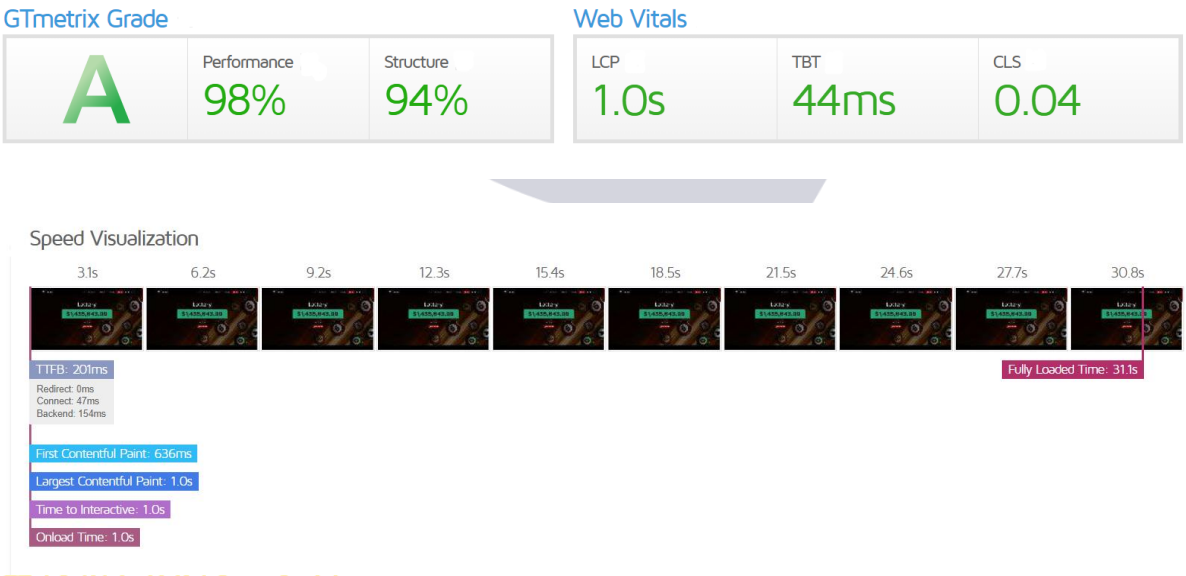
Applications are not using database as they built using Blockchain technology.

Security

- ✓ Lottery Dapp is using Chainlink VRF to generate random numbers while draws the lottery to determine the winners. Chainlink VRF (Verifiable Random Function) is a provably fair and verifiable random number generator (RNG) that enables smart contracts to access random values without compromising security or usability. For each request, Chainlink VRF generates one or more random values and cryptographic proof of how those values were determined.



- ✓ All applications passed security tests successfully with high score.



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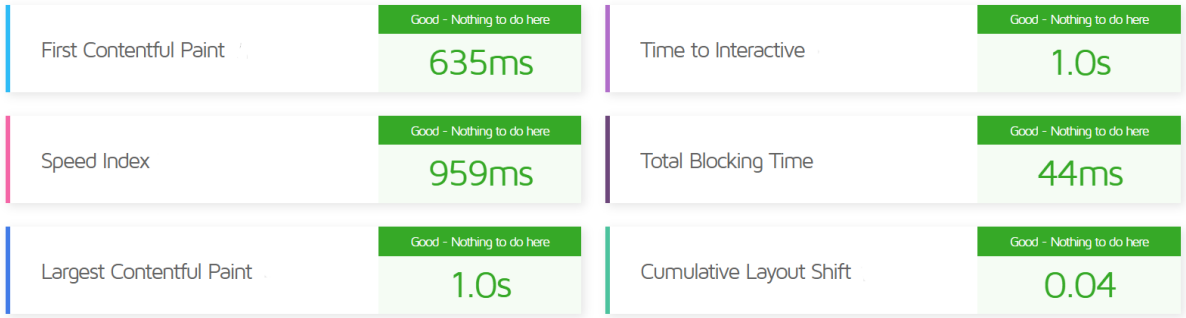
Performance Metrics



Risk Classification

Vulnerabilities are classified in 3 main levels as below based on possible effect to the contract.

High level vulnerability

Vulnerabilities on this level must be fixed immediately as they might lead to fund and data loss and open to manipulation. Any High-level finding will be highlighted with **RED** text

Medium level vulnerability

Vulnerabilities on this level also important to fix as they have potential risk of future exploit and manipulation. Any Medium-level finding will be highlighted with **ORANGE** text

Low level vulnerability

Vulnerabilities on this level are minor and may not affect the smart contract execution. Any Low-level finding will be highlighted with **BLUE** text

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. 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 based on 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. If you have any doubt about the Genuity for this document, please check QR code: