Menzy

Smart Contract Audit Report

SYSFIXED

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
Menzy	MNZ	Binance Smart Chain

Addresses

Contract address	0x861f1e1397dad68289e8f6a09a2ebb567f1b895c
Contract deployer address	0x5742D9Ee987cC5425EbBc9a98674Cd15b828e83e

Project Website

https://menzy.io/

Codebase

https://bscscan.com/address/0x861f1e1397dad68289e8f6a09a2ebb567f1b895c#code

SUMMARY

Menzies is introducing a unique Move2Earn body movement count system for earning passive income through MNZ Tokens. Many current Move2earn systems are step counts only, Still, with Menzy, we have developed a unique algorithmic system that detects any activity or sport happening with the help of your mobile camera or a camera-enabled device. Our system visually detects the action being performed. Furthermore, our software can identify an individual's poseplatform rewards the user for performing successful movements. The pandemic and post time have led to a decreased active lifestyles. Working from home has become increasingly prevalent. To help people keep an active lifestyle with minimal effort and incentivize people with the movement, we have envisaged Menzy. All Menzy needs is a camera device or GPS-device such as your phone. The Menzy platform and algorithms then enable a seamless experience for an individual to earn while being active. Menzy is a complete ecosystem where the Menzy (MNZ) Tokens will have utilities such as staking, payments, transfers, and base swaps, collateral for BNPL. Individuals can use their MNZ Tokens for many more features and activities within the natural world and the metaverse. These are stored in the Menzy wallet post earning MNZ from different activities. This Menzy wallet app uses 3D Facial Nodal 3 points that convert to your password hash. In other words, all blockchain assets stored on Menzy's software wallet app are secured and only accessible through the facial biometric verification of holders. The Menzy step mechanism enables individuals to earn passively by steps by just holding Menzy's unique NFTs. Each Menzy NFT have ique features and functionalities in the Move2Earn arena,, where all Menzy holders wicanompete with their fellow mentions in outdoor sports and physical activities such as running, squats, skipping, boxing, and so on. Not only that Menzians can compete with their fellow competitors in real-world sports and physical athletes but they can also avail Peer of Peer Virtual Training Consultation and connect with different CrossFit qualified trainers from across the globe for training routines and plans.

Contract Summary

Documentation Quality

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

- The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is GOOD.

- Solidity basecode and rules are clearly followed by Menzy.

Test Coverage

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

Audit Findings Summary

We didn't find any issues in our audit results for Menzy smart contracts. This result is very satisfying. Judging from the code base of this smart contract, this smart contract follows the official Solidity style guide.

CONCLUSION

We have audited the Menzy project released on May 2021 to discover issues and identify potential security vulnerabilities in Menzy 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 a satisfactory result. This smart contract doesn't have any issues.

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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.	PASS
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 griefing 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 Jul 14 2022 08:57:18 GMT+0000 (Coordinated Universal Time)
Finished	Friday Jul 15 2022 01:27:47 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	BEP20Token.sol

Detected Issues

We didn't find any issues in this smart contract.

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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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