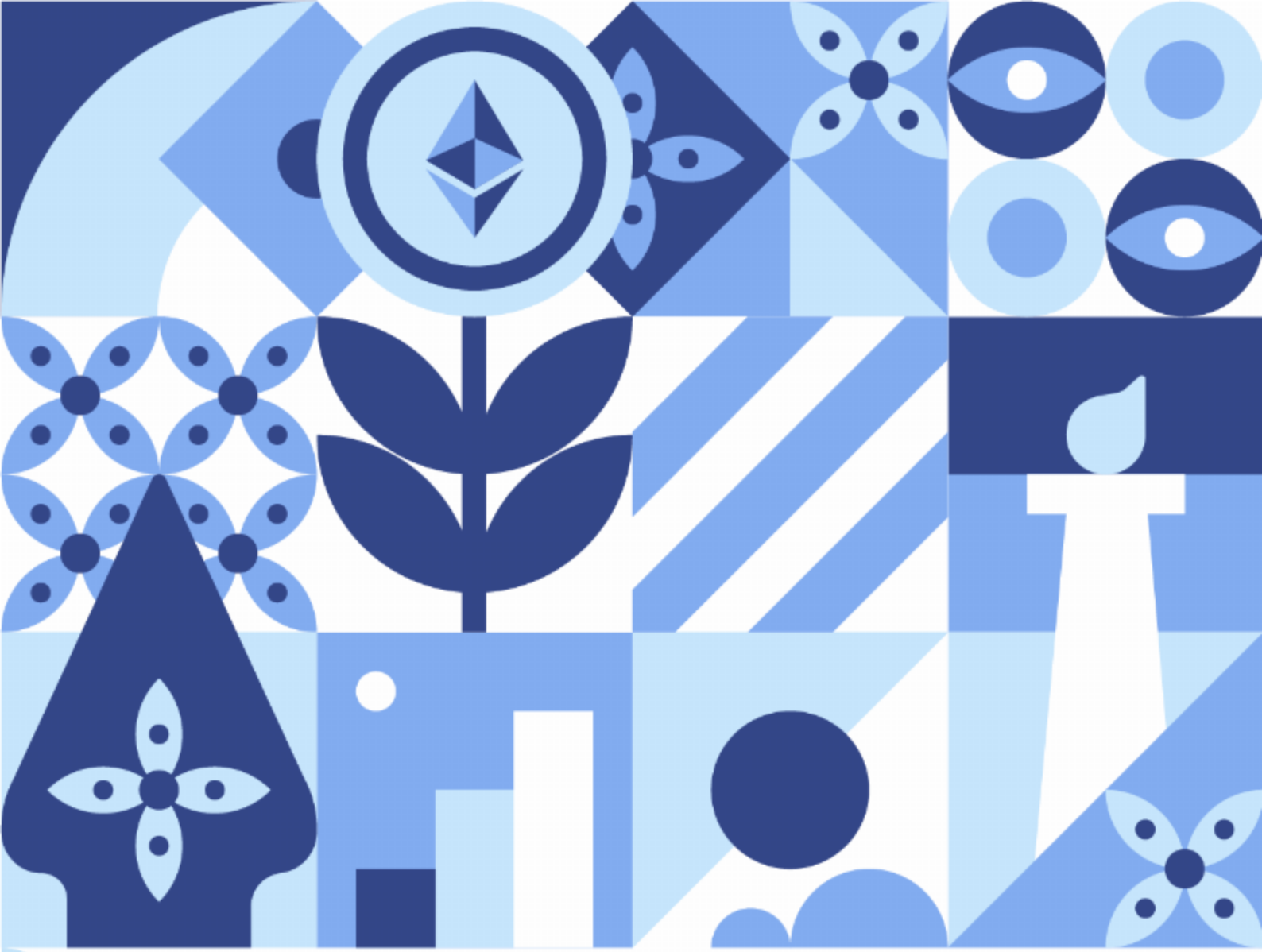

SHE INU

Smart Contract Audit Report

SYSFIXED

24 Jul 2022

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
SHE INU	SHINU	Ethereum

Addresses

Contract address	0xE6fE0258D182a88931B7fe32D6F80042F122d066
Contract deployer address	0xa80A3E0bf76542B98aEBa1e8FE5FF661B58fB655

Project Website

https://shinu.app/

Codebase

https://etherscan.io/address/0xE6fE0258D182a88931B7fe32D6F80042F122d066#code

SUMMARY

SHINU is a friendly female dog ready to lead the pack, here to support woman in their journey through life. SHINU will lead the way with great leadership and a warm heart. How can you not love the female inu? SHE INU is here to take over and become the lead female in the crypto space.

Contract Summary

Documentation Quality

SHE INU 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 standard.

- Standard solidity basecode and rules are already followed by SHE INU with the discovery of several low issues.

Test Coverage

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

Audit Findings Summary

- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 78, 93, 101, 102, 116, 170, 170, 171, 171, 202, 202, 203, 203, 204, 204, 365, 445 and 603.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 7.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 411, 412, 446 and 604.

CONCLUSION

We have audited the SHE INU project released on July 2022 to discover issues and identify potential security vulnerabilities in SHE INU 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 with some low-risk issues.

The issues found in the SHE INU smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set, and out-of-bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value.

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.	ISSUE FOUND
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.	ISSUE FOUND
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.	ISSUE FOUND
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	Saturday Jul 23 2022 14:38:37 GMT+0000 (Coordinated Universal Time)
Finished	Sunday Jul 24 2022 13:50:52 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	SHINU.sol

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged

SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 78

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
77   function add(uint256 a, uint256 b) internal pure returns (uint256) {
78   uint256 c = a + b;
79   require(c >= a, "SafeMath: addition overflow");
80   return c;
81   }
82
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 93

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
92   require(b <= a, errorMessage);
93   uint256 c = a - b;
94   return c;
95   }
96
97
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 101

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
100   }
101   uint256 c = a * b;
102   require(c / a == b, "SafeMath: multiplication overflow");
103   return c;
104   }
105
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 102

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
101   uint256 c = a * b;
102   require(c / a == b, "SafeMath: multiplication overflow");
103   return c;
104   }
105
106
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 116

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
115   require(b > 0, errorMessage);
116   uint256 c = a / b;
117   return c;
118   }
119   }
120
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 170

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
169   uint256 private constant MAX = ~uint256(0);
170   uint256 private constant _tTotal = 10000000 * 10**9;
171   uint256 private _rTotal = (MAX - (MAX % _tTotal));
172   uint256 private _tFeeTotal;
173
174
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 170

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
169   uint256 private constant MAX = ~uint256(0);
170   uint256 private constant _tTotal = 10000000 * 10**9;
171   uint256 private _rTotal = (MAX - (MAX % _tTotal));
172   uint256 private _tFeeTotal;
173
174
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 171

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
170   uint256 private constant _tTotal = 10000000 * 10**9;
171   uint256 private _rTotal = (MAX - (MAX % _tTotal));
172   uint256 private _tFeeTotal;
173
174   //Buy Fee
175
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 171

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
170   uint256 private constant _tTotal = 10000000 * 10**9;
171   uint256 private _rTotal = (MAX - (MAX % _tTotal));
172   uint256 private _tFeeTotal;
173
174   //Buy Fee
175
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 202

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
201
202   uint256 public _maxTxAmount = 100000 * 10**9; //1%
203   uint256 public _maxWalletSize = 100000 * 10**9; //1%
204   uint256 public _swapTokensAtAmount = 10000 * 10**9; //1%
205
206
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 202

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
201
202   uint256 public _maxTxAmount = 100000 * 10**9; //1%
203   uint256 public _maxWalletSize = 100000 * 10**9; //1%
204   uint256 public _swapTokensAtAmount = 10000 * 10**9; //1%
205
206
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 203

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
202   uint256 public _maxTxAmount = 100000 * 10**9; //1%
203   uint256 public _maxWalletSize = 100000 * 10**9; //1%
204   uint256 public _swapTokensAtAmount = 10000 * 10**9; //1%
205
206   event MaxTxAmountUpdated(uint256 _maxTxAmount);
207
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 203

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
202   uint256 public _maxTxAmount = 100000 * 10**9; //1%
203   uint256 public _maxWalletSize = 100000 * 10**9; //1%
204   uint256 public _swapTokensAtAmount = 10000 * 10**9; //1%
205
206   event MaxTxAmountUpdated(uint256 _maxTxAmount);
207
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 204

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
203   uint256 public _maxWalletSize = 100000 * 10**9; //1%
204   uint256 public _swapTokensAtAmount = 10000 * 10**9; //1%
205
206   event MaxTxAmountUpdated(uint256 _maxTxAmount);
207   modifier lockTheSwap {
208
```

SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 204

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
203   uint256 public _maxWalletSize = 100000 * 10**9; //1%
204   uint256 public _swapTokensAtAmount = 10000 * 10**9; //1%
205
206   event MaxTxAmountUpdated(uint256 _maxTxAmount);
207   modifier lockTheSwap {
208
```

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 365

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
364   if(to != uniswapV2Pair) {
365   require(balanceOf(to) + amount < _maxWalletSize, "TOKEN: Balance exceeds wallet
size!");
366   }
367
368   uint256 contractTokenBalance = balanceOf(address(this));
369
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 445

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
444   function blockBots(address[] memory bots_) public onlyOwner {
445   for (uint256 i = 0; i < bots_.length; i++) {
446   bots[bots_[i]] = true;
447   }
448   }
449
```

SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 603

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- SHINU.sol

Locations

```
602   function excludeMultipleAccountsFromFees(address[] calldata accounts, bool
excluded) public onlyOwner {
603   for(uint256 i = 0; i < accounts.length; i++) {
604   _isExcludedFromFee[accounts[i]] = excluded;
605   }
606   }
607
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 7

low SEVERITY

The current pragma Solidity directive is ""^0.8.4"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- SHINU.sol

Locations

```
6   //https://t.me/SHINUportal/4
7   pragma solidity ^0.8.4;
8
9   abstract contract Context {
10   function _msgSender() internal view virtual returns (address) {
11
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 411

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- SHINU.sol

Locations

```
410   address[] memory path = new address[](2);
411   path[0] = address(this);
412   path[1] = uniswapV2Router.WETH();
413   _approve(address(this), address(uniswapV2Router), tokenAmount);
414   uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
415
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 412

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- SHINU.sol

Locations

```
411   path[0] = address(this);
412   path[1] = uniswapV2Router.WETH();
413   _approve(address(this), address(uniswapV2Router), tokenAmount);
414   uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(
415   tokenAmount,
416
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 446

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- SHINU.sol

Locations

```
445   for (uint256 i = 0; i < bots_.length; i++) {
446   bots[bots_[i]] = true;
447   }
448   }
449
450
```

SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 604

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- SHINU.sol

Locations

```
603   for(uint256 i = 0; i < accounts.length; i++) {
604   _isExcludedFromFee[accounts[i]] = excluded;
605   }
606   }
607   }
608
```

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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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