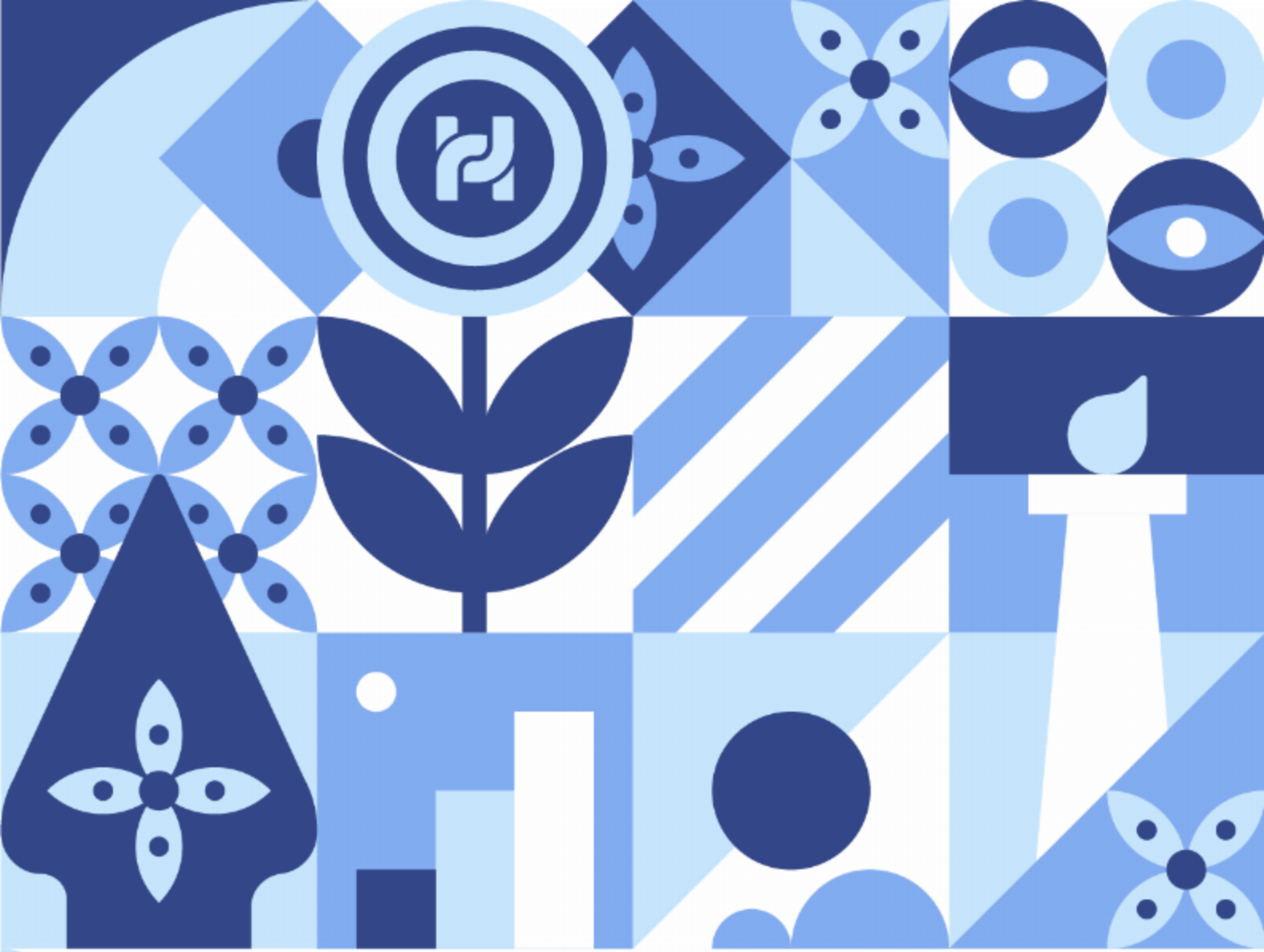

SHIBA INU MOTHER

Smart Contract Audit Report

SYSFIXED

27 Jul 2021

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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain
SHIBA INU MOTHER	SHIBM	HECO

Addresses

Contract address	0x03ed8f569dcf8824c48cd8b6fa8aba5f21297ca9
Contract deployer address	0xe8441724a2cb18cb17ff68c09c4e4c80427caa91

Project Website

https://www.shibmtoken.com/mobile/enIndex.html

Codebase

https://www.hecoinfo.com/en-us/address/0x03ed8f569dcf8824c48cd8b6fa8aba5f21297ca9?tab=Contract

SUMMARY

Shiba Inu Mother (SHIBM) is a decentralized and perpetual deflation token issued on the Huobi Smart Chain. SHIBM, born in August 2021, has a circulation of 10,000 trillion.

Contract Summary

Documentation Quality

SHIBA INU MOTHER 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 SHIBA INU MOTHER 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 108, 125, 147, 148, 167 and 186.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 3, 82, 192 and 422.

CONCLUSION

We have audited the SHIBA INU MOTHER project released on July 2021 to discover issues and identify potential security vulnerabilities in SHIBA INU MOTHER 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 satisfactory results with low-risk issues.

The SHIBA INU MOTHER smart contract code issues do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issue found is a floating pragma is set. 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.

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.	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	Monday Jul 26 2021 13:19:14 GMT+0000 (Coordinated Universal Time)
Finished	Tuesday Jul 27 2021 20:57:14 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	TokenShibmERC20Token.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-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged

SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 108

low SEVERITY

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

Source File

- TokenShibmERC20Token.sol

Locations

```
107   function add(uint256 a, uint256 b) internal pure returns (uint256) {
108   uint256 c = a + b;
109   require(c >= a, "SafeMath: addition overflow");
110
111   return c;
112
```

SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 125

low SEVERITY

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

Source File

- TokenShibmERC20Token.sol

Locations

```
124   require(b <= a, "SafeMath: subtraction overflow");
125   uint256 c = a - b;
126
127   return c;
128   }
129
```

SWC-101 | ARITHMETIC OPERATION "*" DISCOVERED

LINE 147

low SEVERITY

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

Source File

- TokenShibmERC20Token.sol

Locations

```
146
147   uint256 c = a * b;
148   require(c / a == b, "SafeMath: multiplication overflow");
149
150   return c;
151
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 148

low SEVERITY

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

Source File

- TokenShibmERC20Token.sol

Locations

```
147   uint256 c = a * b;
148   require(c / a == b, "SafeMath: multiplication overflow");
149
150   return c;
151   }
152
```

SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 167

low SEVERITY

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

Source File

- TokenShibmERC20Token.sol

Locations

```
166   require(b > 0, "SafeMath: division by zero");
167   uint256 c = a / b;
168   // assert(a == b * c + a % b); // There is no case in which this doesn't hold
169
170   return c;
171
```

SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 186

low SEVERITY

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

Source File

- TokenShibmERC20Token.sol

Locations

```
185   require(b != 0, "SafeMath: modulo by zero");
186   return a % b;
187   }
188   }
189
190
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 3

low SEVERITY

The current pragma Solidity directive is ""^0.5.0"". 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

- TokenShibmERC20Token.sol

Locations

```
2
3   pragma solidity ^0.5.0;
4
5   /**
6   * @dev Interface of the ERC20 standard as defined in the EIP. Does not include
7
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 82

low SEVERITY

The current pragma Solidity directive is ""^0.5.0"". 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

- TokenShibmERC20Token.sol

Locations

```
81
82  pragma solidity ^0.5.0;
83
84  /**
85  * @dev Wrappers over Solidity's arithmetic operations with added overflow
86
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 192

low SEVERITY

The current pragma Solidity directive is ""^0.5.0"". 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

- TokenShibmERC20Token.sol

Locations

```
191
192   pragma solidity ^0.5.0;
193
194
195
196
```

SWC-103 | A FLOATING PRAGMA IS SET.

LINE 422

low SEVERITY

The current pragma Solidity directive is ""^0.5.0"". 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

- TokenShibmERC20Token.sol

Locations

```
421
422   pragma solidity ^0.5.0;
423
424
425   /**
426
```

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