



RYOSHI TOKEN

# Smart Contract Audit Report

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# AUDITED DETAILS

## Audited Project

Project name	Token ticker	Blockchain
RYOSHI TOKEN	RYOSHI	Binance Smart Chain

## Addresses

Contract address	0x0e5f989ce525acc4ee45506af91964f7f4c9f2e9
Contract deployer address	0xa03EE3EcF4Ee6B2fc757FEC41110900d9650aCef

## Project Website

<a href="https://ryoshitoken.com/">https://ryoshitoken.com/</a>
---

## Codebase

<a href="https://bscscan.com/address/0x0e5f989ce525acc4ee45506af91964f7f4c9f2e9#code">https://bscscan.com/address/0x0e5f989ce525acc4ee45506af91964f7f4c9f2e9#code</a>
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# SUMMARY

Decentralized Currency from People to People If 2021 taught the crypto world anything, it's that community-driven meme tokens are in high demand. The people want control of their token, and strong communities of HODLers can be built that have each other's back Ryoshi Success Goals That's why Ryoshi has stepped out of the shadows. See, Ryoshi is Shiba's older, wiser father. He's proud of everything his son has accomplished, but is pretty bummed about the fact that so many people missed their chance to get on the moon rocket. Ryoshi has created a decentralized, deflationary, community token that is by the people, for the people. Ryoshi solves the significant issues of Doge and Shiba — while maintaining the same meme community energy that allowed both assets to rise dramatically. Low Fees One of the major drawbacks of Shiba, and likely the reason the token has stalled out since its initial rise, is the high transaction fees associated with the Ethereum Blockchain upon which it is built. Being a BEP20 token built on the Binance Smart Chain allows Ryoshi to have tiny transaction fees. Transparency An engaged, voracious community deserves full transparency from the asset they love. That's why Ryoshi is now, and will continue to be the most transparent meme token on the market.

## | Contract Summary

### **Documentation Quality**

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

- The technical description is provided clearly and structured and also don't have any high risk issue.

### **Code Quality**

The Overall quality of the basecode is standard.

- Standard solidity basecode and rules are already followed by RYOSHI TOKEN 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 120, 152, 175, 176, 211, 247, 485, 486, 487, 487, 488, 489, 490, 606, 608, 624, 625, 626, 789 and 608.
- 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 607, 608, 608, 790, 790, 791 and 792.



## CONCLUSION

We have audited the RYOSHI TOKEN project released on July 2021 to discover issues and identify potential security vulnerabilities in RYOSHI TOKEN 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 issues found in the RYOSHI TOKEN 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 an invalid array index value is used. The current pragma Solidity directive is `""^0.8.2""`. 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.	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)	<b>SWC-113</b> <b>SWC-128</b>	Execution of the code should never be blocked by a specific contract state unless required.	<b>PASS</b>
Race Conditions	<b>SWC-114</b>	Race Conditions and Transactions Order Dependency should not be possible.	<b>PASS</b>
Authorization through tx.origin	<b>SWC-115</b>	tx.origin should not be used for authorization.	<b>PASS</b>
Block values as a proxy for time	<b>SWC-116</b>	Block numbers should not be used for time calculations.	<b>PASS</b>
Signature Unique ID	<b>SWC-117</b> <b>SWC-121</b> <b>SWC-122</b>	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	<b>PASS</b>
Incorrect Constructor Name	<b>SWC-118</b>	Constructors are special functions that are called only once during the contract creation.	<b>PASS</b>
Shadowing State Variable	<b>SWC-119</b>	State variables should not be shadowed.	<b>PASS</b>
Weak Sources of Randomness	<b>SWC-120</b>	Random values should never be generated from Chain Attributes or be predictable.	<b>PASS</b>
Write to Arbitrary Storage Location	<b>SWC-124</b>	The contract is responsible for ensuring that only authorized user or contract accounts may write to sensitive storage locations.	<b>PASS</b>
Incorrect Inheritance Order	<b>SWC-125</b>	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/.	<b>PASS</b>
Insufficient Gas Griefing	<b>SWC-126</b>	Insufficient gas grieving attacks can be performed on contracts which accept data and use it in a sub-call on another contract.	<b>PASS</b>
Arbitrary Jump Function	<b>SWC-127</b>	As Solidity doesnt support pointer arithmetics, it is impossible to change such variable to an arbitrary value.	<b>PASS</b>



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 08 2021 03:51:41 GMT+0000 (Coordinated Universal Time)
Finished	Friday Jul 09 2021 01:21:55 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	CoinToken.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

[illegible]

# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 120

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
119     function add(uint256 a, uint256 b) internal pure returns (uint256) {  
120         uint256 c = a + b;  
121         require(c >= a, "SafeMath: addition overflow");  
122     }  
123     return c;  
124 }
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 152

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
151   require(b <= a, errorMessage);  
152   uint256 c = a - b;  
153  
154   return c;  
155   }  
156
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 175

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
174
175  uint256 c = a * b;
176  require(c / a == b, "SafeMath: multiplication overflow");
177
178  return c;
179
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 176

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
175  uint256 c = a * b;  
176  require(c / a == b, "SafeMath: multiplication overflow");  
177  
178  return c;  
179  }  
180
```

# SWC-101 | ARITHMETIC OPERATION "/" DISCOVERED

LINE 211

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
210     require(b > 0, errorMessage);
211     uint256 c = a / b;
212     // assert(a == b * c + a % b); // There is no case in which this doesn't hold
213
214     return c;
215
```



# SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 247

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
246     require(b != 0, errorMessage);
247     return a % b;
248 }
249 }
250
251
```

# SWC-101 | ARITHMETIC OPERATION "\*\*" DISCOVERED

LINE 485

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
484  _DECIMALS = _decimals;  
485  _DECIMALFACTOR = 10 ** _DECIMALS;  
486  _tTotal = _supply * _DECIMALFACTOR;  
487  _rTotal = (_MAX - (_MAX % _tTotal));  
488  _TAX_FEE = _txFee* 100;  
489
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 486

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
485  _DECIMALFACTOR = 10 ** _DECIMALS;  
486  _tTotal = _supply * _DECIMALFACTOR;  
487  _rTotal = (_MAX - (_MAX % _tTotal));  
488  _TAX_FEE = _txFee * 100;  
489  _BURN_FEE = _burnFee * 100;  
490
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 487

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
486  _tTotal =_supply * _DECIMALFACTOR;  
487  _rTotal = (_MAX - (_MAX % _tTotal));  
488  _TAX_FEE = _txFee* 100;  
489  _BURN_FEE = _burnFee * 100;  
490  _CHARITY_FEE = _charityFee* 100;  
491
```

# SWC-101 | ARITHMETIC OPERATION "%" DISCOVERED

LINE 487

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
486  _tTotal =_supply * _DECIMALFACTOR;  
487  _rTotal = (_MAX - (_MAX % _tTotal));  
488  _TAX_FEE = _txFee* 100;  
489  _BURN_FEE = _burnFee * 100;  
490  _CHARITY_FEE = _charityFee* 100;  
491
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 488

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
487  _rTotal = (_MAX - (_MAX % _tTotal));  
488  _TAX_FEE = _txFee* 100;  
489  _BURN_FEE = _burnFee * 100;  
490  _CHARITY_FEE = _charityFee* 100;  
491  ORIG_TAX_FEE = _TAX_FEE;  
492
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 489

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
488     _TAX_FEE = _txFee* 100;
489     _BURN_FEE = _burnFee * 100;
490     _CHARITY_FEE = _charityFee* 100;
491     ORIG_TAX_FEE = _TAX_FEE;
492     ORIG_BURN_FEE = _BURN_FEE;
493
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 490

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
489     _BURN_FEE = _burnFee * 100;
490     _CHARITY_FEE = _charityFee* 100;
491     ORIG_TAX_FEE = _TAX_FEE;
492     ORIG_BURN_FEE = _BURN_FEE;
493     ORIG_CHARITY_FEE = _CHARITY_FEE;
494
```



# SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 606

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
605     require(!_isExcluded[account], "Account is already included");
606     for (uint256 i = 0; i < _excluded.length; i++) {
607         if (_excluded[i] == account) {
608             _excluded[i] = _excluded[_excluded.length - 1];
609             _tOwned[account] = 0;
610         }
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 608

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
607     if (_excluded[i] == account) {  
608         _excluded[i] = _excluded[_excluded.length - 1];  
609         _tOwned[account] = 0;  
610         _isExcluded[account] = false;  
611         _excluded.pop();  
612     }
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 624

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
623     require(_txFee < 100 && _burnFee < 100 && _charityFee < 100);  
624     _TAX_FEE = _txFee* 100;  
625     _BURN_FEE = _burnFee * 100;  
626     _CHARITY_FEE = _charityFee* 100;  
627     ORIG_TAX_FEE = _TAX_FEE;  
628
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 625

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
624  _TAX_FEE = _txFee* 100;  
625  _BURN_FEE = _burnFee * 100;  
626  _CHARITY_FEE = _charityFee* 100;  
627  ORIG_TAX_FEE = _TAX_FEE;  
628  ORIG_BURN_FEE = _BURN_FEE;  
629
```

# SWC-101 | ARITHMETIC OPERATION "\*" DISCOVERED

LINE 626

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
625  _BURN_FEE = _burnFee * 100;
626  _CHARITY_FEE = _charityFee* 100;
627  ORIG_TAX_FEE = _TAX_FEE;
628  ORIG_BURN_FEE = _BURN_FEE;
629  ORIG_CHARITY_FEE = _CHARITY_FEE;
630
```

# SWC-101 | ARITHMETIC OPERATION "++" DISCOVERED

LINE 789

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
788     uint256 tSupply = _tTotal;
789     for (uint256 i = 0; i < _excluded.length; i++) {
790         if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
            (_rTotal, _tTotal);
791         rSupply = rSupply.sub(_rOwned[_excluded[i]]);
792         tSupply = tSupply.sub(_tOwned[_excluded[i]]);
793     }
```

# SWC-101 | COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED

LINE 608

## low SEVERITY

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

## Source File

- CoinToken.sol

## Locations

```
607     if (_excluded[i] == account) {  
608         _excluded[i] = _excluded[_excluded.length - 1];  
609         _tOwned[account] = 0;  
610         _isExcluded[account] = false;  
611         _excluded.pop();  
612     }
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 7

### low SEVERITY

The current pragma Solidity directive is `""^0.8.2""`. 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

- CoinToken.sol

### Locations

```
6
7  pragma solidity ^0.8.2;
8
9
10 abstract contract Context {
11
```



## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 607

### low SEVERITY

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

### Source File

- CoinToken.sol

### Locations

```
606   for (uint256 i = 0; i < _excluded.length; i++) {  
607     if (_excluded[i] == account) {  
608       _excluded[i] = _excluded[_excluded.length - 1];  
609       _tOwned[account] = 0;  
610       _isExcluded[account] = false;  
611     }
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 608

### low SEVERITY

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

### Source File

- CoinToken.sol

### Locations

```
607     if (_excluded[i] == account) {  
608         _excluded[i] = _excluded[_excluded.length - 1];  
609         _tOwned[account] = 0;  
610         _isExcluded[account] = false;  
611         _excluded.pop();  
612     }
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 608

### low SEVERITY

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

### Source File

- CoinToken.sol

### Locations

```
607     if (_excluded[i] == account) {  
608         _excluded[i] = _excluded[_excluded.length - 1];  
609         _tOwned[account] = 0;  
610         _isExcluded[account] = false;  
611         _excluded.pop();  
612     }
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 790

### low SEVERITY

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

### Source File

- CoinToken.sol

### Locations

```
789   for (uint256 i = 0; i < _excluded.length; i++) {  
790     if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return  
      (_rTotal, _tTotal);  
791     rSupply = rSupply.sub(_rOwned[_excluded[i]]);  
792     tSupply = tSupply.sub(_tOwned[_excluded[i]]);  
793   }  
794
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 790

### low SEVERITY

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

### Source File

- CoinToken.sol

### Locations

```
789   for (uint256 i = 0; i < _excluded.length; i++) {  
790     if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return  
      (_rTotal, _tTotal);  
791     rSupply = rSupply.sub(_rOwned[_excluded[i]]);  
792     tSupply = tSupply.sub(_tOwned[_excluded[i]]);  
793   }  
794
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 791

### low SEVERITY

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

### Source File

- CoinToken.sol

### Locations

```
790  if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
    (_rTotal, _tTotal);
791  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
792  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
793  }
794  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
795
```

## SWC-110 | OUT OF BOUNDS ARRAY ACCESS

LINE 792

### low SEVERITY

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

### Source File

- CoinToken.sol

### Locations

```
791     rSupply = rSupply.sub(_rOwned[_excluded[i]]);
792     tSupply = tSupply.sub(_tOwned[_excluded[i]]);
793 }
794 if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
795 return (rSupply, tSupply);
796
```

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