

Artificial Intelligence
Smart Contract
Audit Report





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# **AUDITED DETAILS**

## | Audited Project

Project name	Token ticker	Blockchain	
Artificial Intelligence	AI	Binance Smart Chain	

## Addresses

Contract address	0x4c403b1879aa6a79ba9c599a393ccc5d9fd2e788
Contract deployer address	0xe1F0859D990b2BfcfAfbD0f48A8f30bCA15f86DC

### Project Website

https://artificialintelligence.finance/

### Codebase

https://bscscan.com/address/0x4c403b1879aa6a79ba9c599a393ccc5d9fd2e788#code



### **SUMMARY**

The AI That Writes Code for You Think about artificial intelligence writing code for you and constantly learning. Describe the software and features you want to encode. The AI will serve you the software with hundreds of visual options in a few minutes. You won't have to pay a hundred thousand dollars for custom software. The AI will encode your software for just a couple of hundred dollars. You won't have to wait months. The AI writes code fast, securely, and without a mistake. More Details, More Perfect Results You can describe a hunter and birds. You can tell the AI that if the hunter gets a more successful shoot, the level will be more complex. Furthermore, you can define ad frequencies and placements with a simple interface. Select hundreds of different hunter and bird images and assign them advanced movements and effects on AI advanced interface. Tell how the birds will fall after being shot and all the other details. The AI will code all the details for you. If the AI doesn't find the code for your project, it will research and learn. Thus, AI will be more intelligent and more advanced after each project.

### Contract Summary

#### **Documentation Quality**

Artificial Intelligence 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 Artificial Intelligence with the discovery of several low issues.

#### **Test Coverage**

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

### Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 708.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 104, 136, 159, 160, 195, 231, 450, 732, 732, 733, 733, 738, 738, 739, 739, 859, 861, 897, 897, 901, 901, 946, 970, 976 and 861.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 5.

• 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 860, 861, 861, 947, 947, 948, 949, 1079 and 1080.







### CONCLUSION

We have audited the Artificial Intelligence project released on October 2021 to discover issues and identify potential security vulnerabilities in Artificial Intelligence 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 Artificial Intelligence 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, a state variable visibility is not 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. The current pragma Solidity directive is ""^0.6.12"". Specifying a fixed compiler version is recommended 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. It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.



# **AUDIT RESULT**

Article	Category	Description	Result	
Default Visibility	SWC-100 SWC-108	unctions and state variables visibility should be et explicitly. Visibility levels should be specified possciously.		
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.		
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.		
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.		
Shadowing State Variable	SWC-119	tate variables should not be shadowed.		
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.		
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/.		
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.		
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.		
Hash Collisions Variable	SWC-133	Using abi.encodePacked() with multiple variable length arguments can, in certain situations, lead to a hash collision.		
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	Sunday Oct 17 2021 04:13:26 GMT+0000 (Coordinated Universal Time)		
Finished	Monday Oct 18 2021 06:11:36 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



ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
	ARITHMETIC OPERATION "++" DISCOVERED  ARITHMETIC OPERATION "*" DISCOVERED  ARITHMETIC OPERATION "**" DISCOVERED  ARITHMETIC OPERATION "**" DISCOVERED  ARITHMETIC OPERATION "**" DISCOVERED  ARITHMETIC OPERATION "**" DISCOVERED  ARITHMETIC OPERATION "++" DISCOVERED  ARITHMETIC OPERATION "**" DISCOVERED  ARITHMETIC OPERATION "**" DISCOVERED	ARITHMETIC OPERATION "++" DISCOVERED IOW  ARITHMETIC OPERATION "-" DISCOVERED IOW  ARITHMETIC OPERATION "**" DISCOVERED IOW



SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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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



**LINE 104** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

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



**LINE 136** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
135  require(b <= a, errorMessage);
136  uint256 c = a - b;
137
138  return c;
139  }
140</pre>
```



**LINE 159** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
158
159    uint256 c = a * b;
160    require(c / a == b, "SafeMath: multiplication overflow");
161
162    return c;
163
```



**LINE 160** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
159    uint256    c = a * b;
160    require(c / a == b, "SafeMath: multiplication overflow");
161
162    return c;
163    }
164
```



**LINE 195** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
194    require(b > 0, errorMessage);
195    uint256 c = a / b;
196    // assert(a == b * c + a % b); // There is no case in which this doesn't hold
197
198    return c;
199
```



**LINE 231** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
230 require(b != 0, errorMessage);
231 return a % b;
232 }
233 }
234
235
```



**LINE 450** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
449  _owner = address(0);
450  _lockTime = now + time;
451  emit OwnershipTransferred(_owner, address(0));
452  }
453
454
```



**LINE** 732

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
731 _decimals = _DECIMALS;
732 _tTotal = _supply * 10 ** _decimals;
733 _rTotal = (MAX - (MAX % _tTotal));
734 _taxFee = _txFee;
735 _liquidityFee = _lpFee;
736
```



**LINE** 732

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
731 _decimals = _DECIMALS;
732 _tTotal = _supply * 10 ** _decimals;
733 _rTotal = (MAX - (MAX % _tTotal));
734 _taxFee = _txFee;
735 _liquidityFee = _lpFee;
736
```



**LINE** 733

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
732 _tTotal = _supply * 10 ** _decimals;
733 _rTotal = (MAX - (MAX % _tTotal));
734 _taxFee = _txFee;
735 _liquidityFee = _lpFee;
736 _previousTaxFee = _txFee;
737
```



**LINE** 733

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
732   _tTotal = _supply * 10 ** _decimals;
733    _rTotal = (MAX - (MAX % _tTotal));
734    _taxFee = _txFee;
735    _liquidityFee = _lpFee;
736    _previousTaxFee = _txFee;
737
```



**LINE 738** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
737 _previousLiquidityFee = _lpFee;
738 _maxTxAmount = _MAXAMOUNT * 10 ** _decimals;
739 numTokensSellToAddToLiquidity = SELLMAXAMOUNT * 10 ** _decimals;
740
741
742
```



**LINE 738** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
737 _previousLiquidityFee = _lpFee;
738 _maxTxAmount = _MAXAMOUNT * 10 ** _decimals;
739 numTokensSellToAddToLiquidity = SELLMAXAMOUNT * 10 ** _decimals;
740
741
742
```



**LINE** 739

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
738 _maxTxAmount = _MAXAMOUNT * 10 ** _decimals;
739 numTokensSellToAddToLiquidity = SELLMAXAMOUNT * 10 ** _decimals;
740
741
742 _rOwned[tokenOwner] = _rTotal;
743
```



**LINE** 739

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
738 _maxTxAmount = _MAXAMOUNT * 10 ** _decimals;
739 numTokensSellToAddToLiquidity = SELLMAXAMOUNT * 10 ** _decimals;
740
741
742 _rOwned[tokenOwner] = _rTotal;
743
```



**LINE 859** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
858 require(_isExcluded[account], "Account is already excluded");
859 for (uint256 i = 0; i < _excluded.length; i++) {
860 if (_excluded[i] == account) {
861 _excluded[i] = _excluded[_excluded.length - 1];
862 _tOwned[account] = 0;
863</pre>
```



**LINE 861** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
if (_excluded[i] == account) {
861    _excluded[i] = _excluded[_excluded.length - 1];
862    _tOwned[account] = 0;
863    _isExcluded[account] = false;
864    _excluded.pop();
865
```



**LINE 897** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
function setNumTokensSellToAddToLiquidity(uint256 swapNumber) public onlyOwner {
   numTokensSellToAddToLiquidity = swapNumber * 10 ** _decimals;
   }
    }

   public onlyOwner {
     inumTokensSellToAddToLiquidity = swapNumber * 10 ** _decimals;
     }

   public onlyOwner {
     inumTokensSellToAddToLiquidity = swapNumber * 10 ** _decimals;
     inumTokensSellToAddToLiquidity(uint256 swapNumber) public onlyOwner {
     inumTokensSellToAddToLiquidity = swapNumber * 10 ** _decimals;
     inumTokensSellToAddToLiquidity = swapNumber * 10 **
```



**LINE 897** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol



**LINE 901** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
900 function setMaxTxPercent(uint256 maxTxPercent) public onlyOwner {
901   _maxTxAmount = maxTxPercent * 10 ** _decimals;
902  }
903
904 function setSwapAndLiquifyEnabled(bool _enabled) public onlyOwner {
905
```



**LINE 901** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
900 function setMaxTxPercent(uint256 maxTxPercent) public onlyOwner {
901   _maxTxAmount = maxTxPercent * 10 ** _decimals;
902  }
903
904 function setSwapAndLiquifyEnabled(bool _enabled) public onlyOwner {
905
```



**LINE 946** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
945    uint256 tSupply = _tTotal;
946    for (uint256 i = 0; i < _excluded.length; i++) {
947       if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
948       rSupply = rSupply.sub(_rOwned[_excluded[i]]);
949       tSupply = tSupply.sub(_tOwned[_excluded[i]]);
950
```



**LINE 970** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol



**LINE 976** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
975 return _amount.mul(_liquidityFee).div(
976    10**2
977    );
978    }
979
980
```



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

**LINE 861** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
if (_excluded[i] == account) {
861    _excluded[i] = _excluded[_excluded.length - 1];
862    _tOwned[account] = 0;
863    _isExcluded[account] = false;
864    _excluded.pop();
865
```



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

LINE 5

#### **low SEVERITY**

The current pragma Solidity directive is ""^0.6.12"". 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

```
pragma solidity ^0.6.12;
// SPDX-License-Identifier: Unlicensed
interface IERC20 {
8
```



### SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

**LINE** 708

#### **low SEVERITY**

It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.

#### Source File

- CoinToken.sol

```
707
708 bool inSwapAndLiquify;
709 bool public swapAndLiquifyEnabled = true;
710
711 uint256 public _maxTxAmount;
712
```



**LINE 860** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
for (uint256 i = 0; i < _excluded.length; i++) {
    if (_excluded[i] == account) {
        eccluded[i] = _excluded.length - 1];
        eccluded[account] = 0;
        eccluded[account] = false;
        eccluded[account]
```



**LINE 861** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
if (_excluded[i] == account) {
861    _excluded[i] = _excluded[_excluded.length - 1];
862    _tOwned[account] = 0;
863    _isExcluded[account] = false;
864    _excluded.pop();
865
```



**LINE 861** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
if (_excluded[i] == account) {
861    _excluded[i] = _excluded[_excluded.length - 1];
862    _tOwned[account] = 0;
863    _isExcluded[account] = false;
864    _excluded.pop();
865
```



**LINE 947** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
946 for (uint256 i = 0; i < _excluded.length; i++) {
947   if (_r0wned[_excluded[i]] > rSupply || _t0wned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
948   rSupply = rSupply.sub(_r0wned[_excluded[i]]);
949   tSupply = tSupply.sub(_t0wned[_excluded[i]]);
950  }
951
```



**LINE 947** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
946 for (uint256 i = 0; i < _excluded.length; i++) {
947   if (_r0wned[_excluded[i]] > rSupply || _t0wned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
948   rSupply = rSupply.sub(_r0wned[_excluded[i]]);
949   tSupply = tSupply.sub(_t0wned[_excluded[i]]);
950  }
951
```



**LINE 948** 

#### **low SEVERITY**

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

### Source File

- CoinToken.sol

```
947 if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
948    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
949    tSupply = tSupply.sub(_tOwned[_excluded[i]]);
950    }
951    if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
952</pre>
```



**LINE 949** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
948  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
949  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
950  }
951  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
952  return (rSupply, tSupply);
953</pre>
```



**LINE 1079** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
1078  address[] memory path = new address[](2);
1079  path[0] = address(this);
1080  path[1] = uniswapV2Router.WETH();
1081
1082  _approve(address(this), address(uniswapV2Router), tokenAmount);
1083
```



**LINE 1080** 

#### **low SEVERITY**

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

#### Source File

- CoinToken.sol

```
1079 path[0] = address(this);
1080 path[1] = uniswapV2Router.WETH();
1081
1082 _approve(address(this), address(uniswapV2Router), tokenAmount);
1083
1084
```



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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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# **ABOUT US**

Sysfixed is a blockchain security certification organization established in 2021 with the objective to provide smart contract security services and verify their correctness in blockchain-based protocols. Sysfixed automatically scans for security vulnerabilities in Ethereum and other EVM-based blockchain smart contracts. Sysfixed a comprehensive range of analysis techniques—including static analysis, dynamic analysis, and symbolic execution—can accurately detect security vulnerabilities to provide an in-depth analysis report. With a vibrant ecosystem of world-class integration partners that amplify developer productivity, Sysfixed can be utilized in all phases of your project's lifecycle. Our team of security experts is dedicated to the research and improvement of our tools and techniques used to fortify your code.