



XTREMCoin

Smart Contract Review

Deliverable: Smart Contract Audit Report

Security Report

October 2021

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Report Summary

Title	Xtremcoin Smart Contract Audit		
Project Owner	Xtremcoin		
Type	Public		
Reviewed by	Vatsal Raychura	Revision date	12/10/2021
Approved by	eNebula Solutions Private Limited	Approval date	12/10/2021
		Nº Pages	31

Overview

Background

Xtremcoin's team requested that eNebula Solutions perform an Extensive Smart Contract audit.

Project Dates

The following is the project schedule for this review and report:

- **October 12:** Smart Contract Review Completed *(Completed)*
- **October 12:** Delivery of Smart Contract Audit Report *(Completed)*

Review Team

The following eNebula Solutions team member participated in this review:

- Sejal Barad, Security Researcher and Engineer
- Vatsal Raychura, Security Researcher and Engineer

Coverage

Target Specification and Revision

For this audit, we performed research, investigation, and review of the smart contract of Xtremcoin.

The following documentation repositories were considered in-scope for the review:

- Xtremcoin Project:
<https://bscscan.com/address/0x927ff4ad97991c1eec44ab02c6970088ffa85250#code>

Introduction

Given the opportunity to review Xtremcoin Project's smart contract source code, we in the report outline our systematic approach to evaluate potential security issues in the smart contract implementation, expose possible semantic inconsistencies between smart contract code and design document, and provide additional suggestions or recommendations for improvement. Our results show that the given version of smart contracts is ready to launch after resolving the mentioned issues, there are no critical or high issues found related to business logic, security or performance.

About Xtremcoin: -

Item	Description
Issuer	Xtremcoin
Platform	Solidity
Type	BEP20
Audit Method	Whitebox
Latest Audit Report	October 12, 2021

The Test Method Information: -

Test method	Description
Black box testing	Conduct security tests from an attacker's perspective externally.
Grey box testing	Conduct security testing on code modules through the scripting tool, observing the internal running status, mining weaknesses.
White box testing	Based on the open-source code, non-open-source code, to detect whether there are vulnerabilities in programs such as nodes, SDK, etc.

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The vulnerability severity level information:

Level	Description
Critical	Critical severity vulnerabilities will have a significant effect on the security of the DeFi project, and it is strongly recommended to fix the critical vulnerabilities.
High	High severity vulnerabilities will affect the normal operation of the DeFi project. It is strongly recommended to fix high-risk vulnerabilities.
Medium	Medium severity vulnerability will affect the operation of the DeFi project. It is recommended to fix medium-risk vulnerabilities.
Low	Low severity vulnerabilities may affect the operation of the DeFi project in certain scenarios. It is suggested that the project party should evaluate and consider whether these vulnerabilities need to be fixed.
Weakness	There are safety risks theoretically, but it is extremely difficult to reproduce in engineering.

The Full List of Check Items:

Category	Check Item
Basic Coding Bugs	Constructor Mismatch
	Ownership Takeover
	Redundant Fallback Function
	Overflows & Underflows
	Reentrancy
	MONEY-Giving Bug
	Blackhole
	Unauthorized Self-Destruct
	Revert DoS
	Unchecked External Call
	Gasless Send
	Send Instead of Transfer
	Costly Loop
	(Unsafe) Use of Untrusted Libraries
	(Unsafe) Use of Predictable Variables
	Transaction Ordering Dependence
	Deprecated Uses
Semantic Consistency Checks	Semantic Consistency Checks
	Business Logics Review

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Advanced DeFi Scrutiny	Functionality Checks
	Authentication Management
	Access Control & Authorization
	Oracle Security
	Digital Asset Escrow
	Kill-Switch Mechanism
	Operation Trails & Event Generation
	ERC20 Idiosyncrasies Handling
	Frontend-Contract Integration
	Deployment Consistency
	Holistic Risk Management
Additional Recommendations	Avoiding Use of Variadic Byte Array
	Using Fixed Compiler Version
	Making Visibility Level Explicit
	Making Type Inference Explicit
	Adhering To Function Declaration Strictly
	Following Other Best Practices

Common Weakness Enumeration (CWE) Classifications Used in This Audit:

Category	Summary
Configuration	Weaknesses in this category are typically introduced during the configuration of the software.
Data Processing Issues	Weaknesses in this category are typically found in functionality that processes data.
Numeric Errors	Weaknesses in this category are related to improper calculation or conversion of numbers.
Security Features	Weaknesses in this category are concerned with topics like authentication, access control, confidentiality, cryptography, and privilege management. (Software security is not security software.)
Time and State	Weaknesses in this category are related to the improper management of time and state in an environment that supports simultaneous or near-simultaneous computation by multiple systems, processes, or threads.
Error Conditions, Return Values, Status Codes	Weaknesses in this category include weaknesses that occur if a function does not generate the correct return/status code, or if the application does not handle all possible return/status codes that could be generated by a function.
Resource Management	Weaknesses in this category are related to improper management of system resources.

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Behavioral Issues	Weaknesses in this category are related to unexpected behaviors from code that an application uses.
Business Logics	Weaknesses in this category identify some of the underlying problems that commonly allow attackers to manipulate the business logic of an application. Errors in business logic can be devastating to an entire application.
Initialization and Cleanup	Weaknesses in this category occur in behaviors that are used for initialization and breakdown.
Arguments and Parameters	Weaknesses in this category are related to improper use arguments or parameters within function calls.
Expression Issues	Weaknesses in this category are related to incorrectly written expressions within code.
Coding Practices	Weaknesses in this category are related to coding practices that are deemed unsafe and increase the chances that an exploitable vulnerability will be present in the application. They may not directly introduce a vulnerability, but indicate the product has not been carefully developed or maintained.

Findings

Summary

Here is a summary of our findings after analyzing the Xtremcoin's Smart Contract. During the first phase of our audit, we studied the smart contract source code and ran our in-house static code analyzer through the Specific tool. The purpose here is to statically identify known coding bugs, and then manually verify (reject or confirm) issues reported by tool. We further manually review business logics, examine system operations, and place DeFi-related aspects under scrutiny to uncover possible pitfalls and/or bugs.

Severity	No. of Issues
Critical	0
High	0
Medium	0
Low	4
Total	4

We have so far identified that there are potential issues with severity of **0 Critical, 0 High, 0 Medium, and 4 Low**. Overall, these smart contracts are well- designed and engineered, though the implementation can be improved and bug free by common recommendations given under POCs.

Functional Overview

(\$) = payable function	[Pub] public
# = non-constant function	[Ext] external
	[Prv] private
	[Int] internal

```
+ [Int] IBEP20
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #
```

```
+ [Lib] SafeMath
- [Int] tryAdd
- [Int] trySub
- [Int] tryMul
- [Int] tryDiv
- [Int] tryMod
- [Int] add
- [Int] sub
- [Int] mul
- [Int] div
- [Int] mod
- [Int] sub
- [Int] div
- [Int] mod
```

```
+ Context
- [Int] _msgSender
- [Int] _msgData

+ [Lib] Address
- [Int] isContract
- [Int] sendValue #
- [Int] functionCall #
- [Int] functionCall #
- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Int] functionStaticCall
- [Int] functionStaticCall
- [Int] functionDelegateCall #
- [Int] functionDelegateCall #
- [Prv] _verifyCallResult

+ Ownable (Context)
- [Pub] <Constructor> #
- [Pub] owner
- [Pub] renounceOwnership #
  - modifiers: onlyOwner
- [Pub] transferOwnership #
  - modifiers: onlyOwner

+ [Int] IUniswapV2Factory
- [Ext] feeTo
- [Ext] feeToSetter
- [Ext] getPair
- [Ext] allPairs
- [Ext] allPairsLength
```

- [Ext] createPair #
- [Ext] setFeeTo #
- [Ext] setFeeToSetter #

+ [Int] IUniswapV2Pair

- [Ext] name
- [Ext] symbol
- [Ext] decimals
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] allowance
- [Ext] approve #
- [Ext] transfer #
- [Ext] transferFrom #
- [Ext] DOMAIN_SEPARATOR
- [Ext] PERMIT_TYPEHASH
- [Ext] nonces
- [Ext] permit #
- [Ext] MINIMUM_LIQUIDITY
- [Ext] factory
- [Ext] token0
- [Ext] token1
- [Ext] getReserves
- [Ext] price0CumulativeLast
- [Ext] price1CumulativeLast
- [Ext] kLast
- [Ext] mint #
- [Ext] burn #
- [Ext] swap #
- [Ext] skim #
- [Ext] sync #

- [Ext] initialize #

- + [Int] IUniswapV2Router01

- [Ext] factory
- [Ext] WETH
- [Ext] addLiquidity #
- [Ext] addLiquidityETH (\$)
- [Ext] removeLiquidity #
- [Ext] removeLiquidityETH #
- [Ext] removeLiquidityWithPermit #
- [Ext] removeLiquidityETHWithPermit #
- [Ext] swapExactTokensForTokens #
- [Ext] swapTokensForExactTokens #
- [Ext] swapExactETHForTokens (\$)
- [Ext] swapTokensForExactETH #
- [Ext] swapExactTokensForETH #
- [Ext] swapETHForExactTokens (\$)
- [Ext] quote
- [Ext] getAmountOut
- [Ext] getAmountIn
- [Ext] getAmountsOut
- [Ext] getAmountsIn

- + [Int] IUniswapV2Router02 (IUniswapV2Router01)

- [Ext] removeLiquidityETHSupportingFeeOnTransferTokens #
- [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens #
- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #

- + Xtremcoin (Context, IBEP20, Ownable)

- [Pub] <Constructor> #
- [Pub] isBot
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Ext] addBotToBlackList #
 - modifiers: onlyOwner
- [Ext] removeBotFromBlackList #
 - modifiers: onlyOwner
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Pub] isExcludedFromReward
- [Pub] totalFees
- [Pub] deliver #
- [Pub] reflectionFromToken
- [Pub] tokenFromReflection
- [Pub] excludeFromReward #
 - modifiers: onlyOwner
- [Ext] includeInReward #
 - modifiers: onlyOwner
- [Prv] _transferBothExcluded #
- [Pub] excludeFromFee #
 - modifiers: onlyOwner
- [Pub] includeInFee #
 - modifiers: onlyOwner

- [Ext] setTaxFeePercent #
 - modifiers: onlyOwner
- [Ext] setCharityFeePercent #
 - modifiers: onlyOwner
- [Ext] setCharityAddress #
 - modifiers: onlyOwner
- [Ext] setLiquidityFeePercent #
 - modifiers: onlyOwner
- [Ext] setMaxTxPercent #
 - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyEnabled #
 - modifiers: onlyOwner
- [Ext] <Fallback> (\$)
- [Prv] _reflectFee #
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply
- [Prv] _takeLiquidity #
- [Prv] _takeCharity #
- [Prv] calculateTaxFee
- [Prv] calculateCharityFee
- [Prv] calculateLiquidityFee
- [Prv] removeAllFee #
- [Prv] restoreAllFee #
- [Pub] isExcludedFromFee
- [Prv] _approve #
- [Prv] _transfer #
- [Prv] swapAndLiquify #
 - modifiers: lockTheSwap

- [Prv] swapTokensForEth #
- [Prv] addLiquidity #
- [Prv] _tokenTransfer #
- [Prv] _transferStandard #
- [Prv] _transferToExcluded #
- [Prv] _transferFromExcluded #
- [Pub] burn #
- [Int] _burn #
- [Pub] mint #
 - modifiers: onlyOwner
- [Int] _beforeTokenTransfer #

Detailed Results

Issues Checking Status

1. Floating Pragma

- SWC ID:103
- Severity: Low
- Location:<https://bscscan.com/address/0x927ff4ad97991c1eec44ab02c6970088ffa85250#code>
- Relationships: CWE-664: Improper Control of a Resource Through its Lifetime
- Description: A floating pragma is set. The current pragma Solidity directive is ""^0.8.3"". 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.

```
24  
25  pragma solidity ^0.8.3;  
26
```

- Remediations: Lock the pragma version and also consider known bugs (<https://github.com/ethereum/solidity/releases>) for the compiler version that is chosen.

2. State Variable Default Visibility

- SWC ID:108
- Severity: Low
- Location:<https://bscscan.com/address/0x927ff4ad97991c1eec44ab02c6970088ffa85250#code>
- Relationships: CWE-710: Improper Adherence to Coding Standards
- Description: State variable visibility is not set. 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.

```
824     IUniswapV2Router02 public immutable uniswapV2Router;  
825     address public immutable uniswapV2Pair;  
826  
827     bool inSwapAndLiquify;  
828     bool public swapAndLiquifyEnabled = true;
```

- Remediations: Variables can be specified as being public, internal or private. Explicitly define visibility for all state variables.

3. Authorization through tx.origin

- SWC ID:115
- Severity: Low
- Location:<https://bscscan.com/address/0x927ff4ad97991c1eec44ab02c6970088ffa85250#code>
- Relationships: CWE-477: Use of Obsolete Function
- Description: Use of "tx.origin" as a part of authorization control. Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing.

```
915 function transferFrom(address sender, address recipient, uint256 amount) public override returns (bool) {
916     require(!_isBlacklistedBot[sender], "You have no power here!");
917     require(!_isBlacklistedBot[recipient], "You have no power here!");
918     require(!_isBlacklistedBot[tx.origin], "You have no power here!");
919     _transfer(sender, recipient, amount);
920     _approve(sender, _msgSender(), _allowances[sender][_msgSender()].sub(amount, "BEP20: transfer amount exceeds allowance"));
921     return true;
922 }
923 }
```

- Remediations: tx.origin should not be used for authorization. Use msg.sender instead.

4. Authorization through tx.origin

- SWC ID:115
- Severity: Low
- Location:<https://bscscan.com/address/0x927ff4ad97991c1eec44ab02c6970088ffa85250#code>
- Relationships: CWE-477: Use of Obsolete Function
- Description: Use of "tx.origin" as a part of authorization control. Using "tx.origin" as a security control can lead to authorization bypass vulnerabilities. Consider using "msg.sender" unless you really know what you are doing.

```
1181         require(!_isBlackListedBot[from], "You have no power here!");
1182         require(!_isBlackListedBot[to], "You have no power here!");
1183         require(!_isBlackListedBot[tx.origin], "You have no power here!");
1184
```

- Remediations: tx.origin should not be used for authorization. Use msg.sender instead.

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Automated Tools Results

Slither: -

```
Reentrancy in Xtremcoin.transfer(address,address,uint256) (Xtremcoin.sol#1172-1221):
  External calls:
  - swapAndLiquify(contractTokenBalance) (Xtremcoin.sol#1208)
  - uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp) (Xtremcoin.sol#1209-1276)
  - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (Xtremcoin.sol#
1215-1261)
  Internal calls sending eth:
  - swapAndLiquify(contractTokenBalance) (Xtremcoin.sol#1208)
  - uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp) (Xtremcoin.sol#1209-1276)
  State variables written after the call(s):
  - _tokensTransferFrom(to,amount,takeFee) (Xtremcoin.sol#1228)
  - _owned[_charityWalletAddress] = _owned[_charityWalletAddress].add(rCharity) (Xtremcoin.sol#1113)
  - _owned[address(this)] = _owned[address(this)].add(tLiquidity) (Xtremcoin.sol#1111)
  - _owned[sender] = _owned[sender].sub(rAmount) (Xtremcoin.sol#1112)
  - _owned[sender] = _owned[sender].sub(rAmount) (Xtremcoin.sol#1102)
  - _owned[sender] = _owned[sender].sub(rAmount) (Xtremcoin.sol#1101)
  - _owned[sender] = _owned[sender].sub(rAmount) (Xtremcoin.sol#1124)
  - _owned[recipient] = _owned[recipient].add(rTransferAmount) (Xtremcoin.sol#1103)
  - _owned[recipient] = _owned[recipient].add(rTransferAmount) (Xtremcoin.sol#1114)
  - _owned[recipient] = _owned[recipient].add(rTransferAmount) (Xtremcoin.sol#1123)
  - _owned[recipient] = _owned[recipient].add(rTransferAmount) (Xtremcoin.sol#1108)
  - tokensTransferFrom(to,amount,takeFee) (Xtremcoin.sol#1228)
  - rTotal = rTotal.sub(rFee) (Xtremcoin.sol#1064)
  - tokensTransferFrom(to,amount,takeFee) (Xtremcoin.sol#1228)
  - _owned[address(this)] = _owned[address(this)].add(tLiquidity) (Xtremcoin.sol#1111)
  - _owned[_charityWalletAddress] = _owned[_charityWalletAddress].add(tCharity) (Xtremcoin.sol#1111)
  - _owned[sender] = _owned[sender].sub(rAmount) (Xtremcoin.sol#1112)
  - _owned[sender] = _owned[sender].sub(rAmount) (Xtremcoin.sol#1101)
  - _owned[recipient] = _owned[recipient].add(rTransferAmount) (Xtremcoin.sol#1113)
  - _owned[recipient] = _owned[recipient].add(rTransferAmount) (Xtremcoin.sol#1101)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities

Xtremcoin.transferFrom(address,address,uint256) (Xtremcoin.sol#916-923) uses tx.origin for authorization: require(bool,string)(! _isBlacklistedBot[tx.
origin],You have no power here!) (Xtremcoin.sol#919)
Xtremcoin._transfer(address,address,uint256) (Xtremcoin.sol#1172-1221) uses tx.origin for authorization: require(bool,string)(! _isBlacklistedBot[tx.o
rigin],You have no power here!) (Xtremcoin.sol#1103)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dangerous-usage-of-txorigin

Xtremcoin.addLiquidity(uint256,uint256) (Xtremcoin.sol#1264-1277) ignores return value by uniswapV2Router.addLiquidityETH(value: ethAmount)(address(th
is),tokenAmount,0,0,owner(),block.timestamp) (Xtremcoin.sol#1209-1276)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-return

Xtremcoin.allowance(address,address).owner (Xtremcoin.sol#987) shadows:
  - Ownable.owner() (Xtremcoin.sol#552-554) (function)
Xtremcoin._approve(address,address,uint256).owner (Xtremcoin.sol#1104) shadows:
  - Ownable.owner() (Xtremcoin.sol#552-554) (function)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing

Xtremcoin.setTaxFeePercent(uint256) (Xtremcoin.sol#1033-1035) should emit an event for:
  - _taxFee = taxFee (Xtremcoin.sol#1034)
Xtremcoin.setCharityFeePercent(uint256) (Xtremcoin.sol#1037-1039) should emit an event for:
  - _charityFee = charityFee (Xtremcoin.sol#1038)
Xtremcoin.setLiquidityFeePercent(uint256) (Xtremcoin.sol#1045-1047) should emit an event for:
  - _liquidityFee = liquidityFee (Xtremcoin.sol#1046)
Xtremcoin.setMaxTxPercent(uint256) (Xtremcoin.sol#1049-1053) should emit an event for:
  - _maxTxAmount = tTotal.mul(maxTxPercent).div(10 ** 2) (Xtremcoin.sol#1050-1052)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-events-arithmetic

Xtremcoin.setCharityAddress(address).charityAdd (Xtremcoin.sol#1041) lacks a zero-check on:
  - _charityWalletAddress = charityAdd (Xtremcoin.sol#1042)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-zero-address-validation
```


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```
Reentrancy in Xtremcoin.transfer(address,address,uint256) (Xtremcoin.sol#1172-1221):
  External calls:
    - swapAndLiquify(contractTokenBalance) (Xtremcoin.sol#1208)
      - _uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp) (Xtremcoin.sol#1269-1276)
      - _uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (Xtremcoin.sol#1255-1261)
  External calls sending eth:
    - swapAndLiquify(contractTokenBalance) (Xtremcoin.sol#1208)
      - _uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp) (Xtremcoin.sol#1269-1276)
  State variables written after the call(s):
    - _tokenTransfer(from,to,amount,takeFee) (Xtremcoin.sol#1220)
      - _charityFee = _previousCharityFee (Xtremcoin.sol#1156)
      - _charityFee = 0 (Xtremcoin.sol#1158)
    - _tokenTransfer(from,to,amount,takeFee) (Xtremcoin.sol#1220)
      - _liquidityFee = _previousLiquidityFee (Xtremcoin.sol#1157)
      - _liquidityFee = 0 (Xtremcoin.sol#1151)
    - _tokenTransfer(from,to,amount,takeFee) (Xtremcoin.sol#1220)
      - _previousCharityFee = _charityFee (Xtremcoin.sol#1146)
    - _tokenTransfer(from,to,amount,takeFee) (Xtremcoin.sol#1220)
      - _previousLiquidityFee = _liquidityFee (Xtremcoin.sol#1147)
    - _tokenTransfer(from,to,amount,takeFee) (Xtremcoin.sol#1220)
      - _previousTaxFee = _taxFee (Xtremcoin.sol#1145)
    - _tokenTransfer(from,to,amount,takeFee) (Xtremcoin.sol#1220)
      - _tFeeTotal = _tFeeTotal.add(tFee) (Xtremcoin.sol#1065)
    - _tokenTransfer(from,to,amount,takeFee) (Xtremcoin.sol#1220)
      - _taxFee = _previousTaxFee (Xtremcoin.sol#1155)
      - _taxFee = 0 (Xtremcoin.sol#1149)
Reentrancy in Xtremcoin.constructor() (Xtremcoin.sol#850-873):
  External calls:
    - _uniswapV2Pair = _UniswapV2Factory(_uniswapV2Router.factory()).createPair(address(this),_uniswapV2Router.WETH()) (Xtremcoin.sol#858-859)
  State variables written after the call(s):
    - _blacklistedBots.push(address(0xE831b30b53E33a292a20c3F8Bfd1658CDdF74fce)) (Xtremcoin.sol#872)
    - _isBlacklistedBot[address(0xE831b30b53E33a292a20c3F8Bfd1658CDdF74fce)] = true (Xtremcoin.sol#871)
    - _isExcludedFromFee(owner()) = true (Xtremcoin.sol#865)
    - _isExcludedFromFee(address(this)) = true (Xtremcoin.sol#866)
    - _uniswapV2Router = _uniswapV2Router (Xtremcoin.sol#862)
Reentrancy in Xtremcoin.swapAndLiquify(uint256) (Xtremcoin.sol#1223-1244):
  External calls:
    - swapTokensForEth(half) (Xtremcoin.sol#1235)
      - _uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (Xtremcoin.sol#1255-1261)
  External calls sending eth:
    - addLiquidity(otherHalf,newBalance) (Xtremcoin.sol#1241)
      - _uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp) (Xtremcoin.sol#1269-1276)
  State variables written after the call(s):
    - addLiquidity(otherHalf,newBalance) (Xtremcoin.sol#1241)
    - _allowances[owner][spender] = amount (Xtremcoin.sol#1168)
Reentrancy in Xtremcoin.transferFrom(address,address,uint256) (Xtremcoin.sol#916-923):
  External calls:
    - _transfer(sender,recipient,amount) (Xtremcoin.sol#920)
      - _uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp) (Xtremcoin.sol#1269-1276)
      - _uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (Xtremcoin.sol#1255-1261)
  External calls sending eth:
    - _transfer(sender,recipient,amount) (Xtremcoin.sol#920)
      - _uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp) (Xtremcoin.sol#1269-1276)
  State variables written after the call(s):
    - _approve(sender,msgSender(),_allowances[sender][msgSender()].sub(amount,8EP20: transfer amount exceeds allowance)) (Xtremcoin.sol#921)
    - _allowances[owner][spender] = amount (Xtremcoin.sol#1168)
Reference: https://github.com/cryptic-ll/thor-wiki/Detector-Documentation#reentrancy-vulnerabilities-2
Reentrancy in Xtremcoin.transfer(address,address,uint256) (Xtremcoin.sol#1172-1221):
  External calls:
    - swapAndLiquify(contractTokenBalance) (Xtremcoin.sol#1208)
      - _uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp) (Xtremcoin.sol#1269-1276)
      - _uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (Xtremcoin.sol#1255-1261)
  External calls sending eth:
    - swapAndLiquify(contractTokenBalance) (Xtremcoin.sol#1208)
      - _uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp) (Xtremcoin.sol#1269-1276)
  Event emitted after the call(s):
    - Transfer(sender,recipient,tTransferAmount) (Xtremcoin.sol#1307)
    - _tokenTransfer(from,to,amount,takeFee) (Xtremcoin.sol#1220)
    - Transfer(sender,recipient,tTransferAmount) (Xtremcoin.sol#1329)
    - _tokenTransfer(from,to,amount,takeFee) (Xtremcoin.sol#1220)
    - Transfer(sender,recipient,tTransferAmount) (Xtremcoin.sol#1318)
    - _tokenTransfer(from,to,amount,takeFee) (Xtremcoin.sol#1220)
    - Transfer(sender,recipient,tTransferAmount) (Xtremcoin.sol#1022)
    - _tokenTransfer(from,to,amount,takeFee) (Xtremcoin.sol#1220)
Reentrancy in Xtremcoin.constructor() (Xtremcoin.sol#850-873):
  External calls:
    - _uniswapV2Pair = _UniswapV2Factory(_uniswapV2Router.factory()).createPair(address(this),_uniswapV2Router.WETH()) (Xtremcoin.sol#858-859)
  Event emitted after the call(s):
    - Transfer(address(0),owner(),_tTotal) (Xtremcoin.sol#860)
Reentrancy in Xtremcoin.swapAndLiquify(uint256) (Xtremcoin.sol#1223-1244):
  External calls:
    - swapTokensForEth(half) (Xtremcoin.sol#1235)
      - _uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (Xtremcoin.sol#1255-1261)
  External calls sending eth:
    - addLiquidity(otherHalf,newBalance) (Xtremcoin.sol#1241)
      - _uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp) (Xtremcoin.sol#1269-1276)
  Event emitted after the call(s):
    - Approval(owner,spender,amount) (Xtremcoin.sol#1169)
    - addLiquidity(otherHalf,newBalance) (Xtremcoin.sol#1241)
    - SwapAndLiquify(half,newBalance,otherHalf) (Xtremcoin.sol#1243)
```


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```
Reentrancy in Xtremcoin.transferFrom(address,address,uint256) (Xtremcoin.sol#916-923):
  External calls:
    - transfer(sender,recipient,amount) (Xtremcoin.sol#920)
      - uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp) (Xtremcoin.sol#1269-1276)
      - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (Xtremcoin.sol#
1295-1301)
    External calls sending eth:
      - transfer(sender,recipient,amount) (Xtremcoin.sol#920)
      - uniswapV2Router.addLiquidityETH(value: ethAmount)(address(this),tokenAmount,0,0,owner(),block.timestamp) (Xtremcoin.sol#1269-1276)
    Event emitted after the call(s):
      - Approval(owner,spender,amount) (Xtremcoin.sol#1169)
      - approve(sender,_msgSender(),_allowances[_sender][_msgSender()].sub(amount,BEP20: transfer amount exceeds allowance)) (Xtremcoin.sol#
911)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3

Address.isContract(address) (Xtremcoin.sol#358-367) uses assembly
  - INLINE ASM (Xtremcoin.sol#365)
Address.verifyCallResult(bool,bytes,string) (Xtremcoin.sol#503-520) uses assembly
  - INLINE ASM (Xtremcoin.sol#512-515)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#assembly-usage

Address.verifyCallResult(bool,bytes,string) (Xtremcoin.sol#503-520) is never used and should be removed
Address.functionCall(address,bytes) (Xtremcoin.sol#431-433) is never used and should be removed
Address.functionCall(address,bytes,string) (Xtremcoin.sol#421-423) is never used and should be removed
Address.functionCallWithValue(address,bytes,uint256) (Xtremcoin.sol#430-438) is never used and should be removed
Address.functionCallWithValue(address,bytes,uint256,string) (Xtremcoin.sol#440-453) is never used and should be removed
Address.functionDelegateCall(address,bytes) (Xtremcoin.sol#405-407) is never used and should be removed
Address.functionDelegateCall(address,bytes,string) (Xtremcoin.sol#495-501) is never used and should be removed
Address.functionStaticCall(address,bytes) (Xtremcoin.sol#461-463) is never used and should be removed
Address.functionStaticCall(address,bytes,string) (Xtremcoin.sol#471-477) is never used and should be removed
Address.isContract(address) (Xtremcoin.sol#358-367) is never used and should be removed
Address.sendValue(address,uint256) (Xtremcoin.sol#385-391) is never used and should be removed
Context._msgData() (Xtremcoin.sol#331-334) is never used and should be removed
SafeMath.div(uint256,uint256,string) (Xtremcoin.sol#286-291) is never used and should be removed
SafeMath.mod(uint256,uint256) (Xtremcoin.sol#246-248) is never used and should be removed
SafeMath.mod(uint256,uint256,string) (Xtremcoin.sol#308-313) is never used and should be removed
SafeMath.tryAdd(uint256,uint256) (Xtremcoin.sol#117-123) is never used and should be removed
SafeMath.tryDiv(uint256,uint256) (Xtremcoin.sol#159-164) is never used and should be removed
SafeMath.tryMod(uint256,uint256) (Xtremcoin.sol#171-176) is never used and should be removed
SafeMath.tryMul(uint256,uint256) (Xtremcoin.sol#142-152) is never used and should be removed
SafeMath.trySub(uint256,uint256) (Xtremcoin.sol#130-135) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Xtremcoin._rTotal (Xtremcoin.sol#888) is set pre-construction with a non-constant function or state variable:
  - (MAX - (MAX * _rTotal))
Xtremcoin._previousTaxFee (Xtremcoin.sol#810) is set pre-construction with a non-constant function or state variable:
  - _taxFee
Xtremcoin._previousCharityFee (Xtremcoin.sol#819) is set pre-construction with a non-constant function or state variable:
  - _charityFee
Xtremcoin._previousLiquidityFee (Xtremcoin.sol#822) is set pre-construction with a non-constant function or state variable:
  - _liquidityFee
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#function-initializing-state

Pragma version^0.8.3 (Xtremcoin.sol#25) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6
solc-0.8.3 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Low level call in Address.sendValue(address,uint256) (Xtremcoin.sol#385-391):
  - (success) = recipient.call{value: amount}() (Xtremcoin.sol#389)
Low level call in Address.functionCallWithValue(address,bytes,uint256,string) (Xtremcoin.sol#440-453):
  - (success,returndata) = target.call{value: value}(data) (Xtremcoin.sol#451)
Low level call in Address.functionStaticCall(address,bytes,string) (Xtremcoin.sol#471-477):
  - (success,returndata) = target.staticcall(data) (Xtremcoin.sol#475)
Low level call in Address.functionDelegateCall(address,bytes,string) (Xtremcoin.sol#495-501):
  - (success,returndata) = target.delegatecall(data) (Xtremcoin.sol#499)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

Function IUniswapV2Pair.DOMAIN_SEPARATOR() (Xtremcoin.sol#618) is not in mixedCase
Function IUniswapV2Pair.PERMIT_TYPEHASH() (Xtremcoin.sol#619) is not in mixedCase
Function IUniswapV2Pair.MINIMUM_LIQUIDITY() (Xtremcoin.sol#636) is not in mixedCase
Function IUniswapV2Router01.ETH() (Xtremcoin.sol#656) is not in mixedCase
Parameter Xtremcoin.setSwapAndLiquifyEnabled(bool)._enabled (Xtremcoin.sol#1055) is not in mixedCase
Parameter Xtremcoin.calculateTaxFee(uint256)._amount (Xtremcoin.sol#1124) is not in mixedCase
Parameter Xtremcoin.calculateCharityFee(uint256)._amount (Xtremcoin.sol#1130) is not in mixedCase
Parameter Xtremcoin.calculateLiquidityFee(uint256)._amount (Xtremcoin.sol#1136) is not in mixedCase
Parameter Xtremcoin.burn(uint256)._value (Xtremcoin.sol#1332) is not in mixedCase
Variable Xtremcoin._charityWalletAddress (Xtremcoin.sol#804) is not in mixedCase
Variable Xtremcoin._taxFee (Xtremcoin.sol#815) is not in mixedCase
Variable Xtremcoin._charityFee (Xtremcoin.sol#818) is not in mixedCase
Variable Xtremcoin._liquidityFee (Xtremcoin.sol#821) is not in mixedCase
Variable Xtremcoin._maxTxAmount (Xtremcoin.sol#830) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

Redundant expression "this (Xtremcoin.sol#332)" inContext (Xtremcoin.sol#326-335)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements
```


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[illegible]

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```
Xtremcoin_decimals(Xtremcoin.sol#811) should be constant
Xtremcoin_name(Xtremcoin.sol#811) should be constant
Xtremcoin_symbol(Xtremcoin.sol#812) should be constant
Xtremcoin_nunTokensSellToAddToLiquidity(Xtremcoin.sol#831) should be constant
Reference: https://github.com/crytic/sltether/wiki/Detector-Docmentation#state-variables-that-could-be-declared-constant

renounceOwnership() should be declared external:
  - Ownable.renounceOwnership() (Xtremcoin.sol#571-574)
transferOwnership(address) should be declared external:
  - Ownable.transferOwnership(address) (Xtremcoin.sol#580-584)
isBot(address) should be declared external:
  - Xtremcoin.isBot(address) (Xtremcoin.sol#475-477)
name() should be declared external:
  - Xtremcoin.name() (Xtremcoin.sol#881-883)
symbol() should be declared external:
  - Xtremcoin.symbol() (Xtremcoin.sol#885-887)
decimals() should be declared external:
  - Xtremcoin.decimals() (Xtremcoin.sol#889-891)
totalSupply() should be declared external:
  - Xtremcoin.totalSupply() (Xtremcoin.sol#893-895)
transfer(address,uint256) should be declared external:
  - Xtremcoin.transfer(address,uint256) (Xtremcoin.sol#902-905)
allowance(address,address) should be declared external:
  - Xtremcoin.allowance(address,address) (Xtremcoin.sol#907-909)
approve(address,uint256) should be declared external:
  - Xtremcoin.approve(address,uint256) (Xtremcoin.sol#911-914)
transferFrom(address,address,uint256) should be declared external:
  - Xtremcoin.transferFrom(address,address,uint256) (Xtremcoin.sol#916-923)
increaseAllowance(address,uint256) should be declared external:
  - Xtremcoin.increaseAllowance(address,uint256) (Xtremcoin.sol#947-950)
decreaseAllowance(address,uint256) should be declared external:
  - Xtremcoin.decreaseAllowance(address,uint256) (Xtremcoin.sol#952-955)
isExcludedFromReward(address) should be declared external:
  - Xtremcoin.isExcludedFromReward(address) (Xtremcoin.sol#957-959)
totalFees() should be declared external:
  - Xtremcoin.totalFees() (Xtremcoin.sol#961-963)
deliver(uint256) should be declared external:
  - Xtremcoin.deliver(uint256) (Xtremcoin.sol#965-972)
reflectionFromToken(uint256,bool) should be declared external:
  - Xtremcoin.reflectionFromToken(uint256,bool) (Xtremcoin.sol#974-983)
excludeFromReward(address) should be declared external:
  - Xtremcoin.excludeFromReward(address) (Xtremcoin.sol#991-999)
excludeFromFee(address) should be declared external:
  - Xtremcoin.excludeFromFee(address) (Xtremcoin.sol#1025-1027)
includeInFee(address) should be declared external:
  - Xtremcoin.includeInFee(address) (Xtremcoin.sol#1029-1031)
setSwapAndLiquifyEnabled(bool) should be declared external:
  - Xtremcoin.setSwapAndLiquifyEnabled(bool) (Xtremcoin.sol#1055-1058)
isExcludedFromFee(address) should be declared external:
  - Xtremcoin.isExcludedFromFee(address) (Xtremcoin.sol#1160-1162)
burn(uint256) should be declared external:
  - Xtremcoin.burn(uint256) (Xtremcoin.sol#1332-1334)
mint(uint256) should be declared external:
  - Xtremcoin.mint(uint256) (Xtremcoin.sol#1344-1350)
Reference: https://github.com/crytic/sltether/wiki/Detector-Docmentation#public-function-that-could-be-declared-external
```

MythX: -

Line	SMC Title	Severity	Short Description
25	(SMC-103) Floating Pragma	Low	A floating pragma is set.
119	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "+" discovered
133	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "-" discovered
148	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "*" discovered
149	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "/" discovered
162	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "/" discovered
174	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "%" discovered
189	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "+" discovered
203	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "-" discovered
217	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "*" discovered
231	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "/" discovered
247	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "%" discovered
266	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "-" discovered
289	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "/" discovered
311	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "%" discovered
807	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "***" discovered
807	(SMC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "*" discovered

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807	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "*" discovered
808	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "-" discovered
808	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "%" discovered
827	(SWC-108) State Variable Default Visibility	Low	State variable visibility is not set.
830	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "*" discovered
830	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "+" discovered
831	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "*" discovered
831	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "+" discovered
919	(SWC-115) Authorization through tx.origin	Low	Use of "tx.origin" as a part of authorization control.
937	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "++" discovered
938	(SWC-110) Assert Violation	Unknown	Out of bounds array access
939	(SWC-101) Integer Overflow and Underflow	Unknown	Compiler-rewritable "<uint> - 1" discovered
939	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "-" discovered
939	(SWC-110) Assert Violation	Unknown	Out of bounds array access
1003	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "++" discovered
1004	(SWC-110) Assert Violation	Unknown	Out of bounds array access
1005	(SWC-110) Assert Violation	Unknown	Out of bounds array access
1005	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "-" discovered
1005	(SWC-101) Integer Overflow and Underflow	Unknown	Compiler-rewritable "<uint> - 1" discovered
1005	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "-" discovered
1005	(SWC-101) Integer Overflow and Underflow	Unknown	Compiler-rewritable "<uint> - 1" discovered
1051	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "*" discovered
1099	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "++" discovered
1100	(SWC-110) Assert Violation	Unknown	Out of bounds array access
1101	(SWC-110) Assert Violation	Unknown	Out of bounds array access
1102	(SWC-110) Assert Violation	Unknown	Out of bounds array access
1126	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "*" discovered
1132	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "*" discovered
1138	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "*" discovered
1183	(SWC-115) Authorization through tx.origin	Low	Use of "tx.origin" as a part of authorization control.
1249	(SWC-110) Assert Violation	Unknown	Out of bounds array access
1250	(SWC-110) Assert Violation	Unknown	Out of bounds array access
1347	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "+=" discovered
1348	(SWC-101) Integer Overflow and Underflow	Unknown	Arithmetic operation "+=" discovered

Basic Coding Bugs

1. Constructor Mismatch

- Description: Whether the contract name and its constructor are not identical to each other.
- Result: PASSED
- Severity: Critical

2. Ownership Takeover

- Description: Whether the set owner function is not protected.
- Result: PASSED
- Severity: Critical

3. Redundant Fallback Function

- Description: Whether the contract has a redundant fallback function.
- Result: PASSED
- Severity: Critical

4. Overflows & Underflows

- Description: Whether the contract has general overflow or underflow vulnerabilities
- Result: PASSED
- Severity: Critical

5. Reentrancy

- Description: Reentrancy is an issue when code can call back into your contract and change state, such as withdrawing ETHs.
- Result: PASSED
- Severity: Critical

6. MONEY-Giving Bug

- Description: Whether the contract returns funds to an arbitrary address.
- Result: PASSED
- Severity: High

7. Blackhole

- Description: Whether the contract locks ETH indefinitely: merely in without out.
- Result: PASSED
- Severity: High

8. Unauthorized Self-Destruct

- Description: Whether the contract can be killed by any arbitrary address.
- Result: PASSED
- Severity: Medium

9. Revert DoS

- Description: Whether the contract is vulnerable to DoS attack because of unexpected revert.
- Result: PASSED
- Severity: Medium

10.Unchecked External Call

- Description: Whether the contract has any external call without checking the return value.
- Result: PASSED
- Severity: Medium

11.Gasless Send

- Description: Whether the contract is vulnerable to gasless send.
- Result: PASSED
- Severity: Medium

12.Send Instead of Transfer

- Description: Whether the contract uses send instead of transfer.
- Result: PASSED
- Severity: Medium

13. Costly Loop

- Description: Whether the contract has any costly loop which may lead to Out-Of-Gas exception.
- Result: PASSED
- Severity: Medium

14. (Unsafe) Use of Untrusted Libraries

- Description: Whether the contract use any suspicious libraries.
- Result: PASSED
- Severity: Medium

15. (Unsafe) Use of Predictable Variables

- Description: Whether the contract contains any randomness variable, but its value can be predicated.
- Result: PASSED
- Severity: Medium

16. Transaction Ordering Dependence

- Description: Whether the final state of the contract depends on the order of the transactions.
- Result: PASSED
- Severity: Medium

17. Deprecated Uses

- Description: Whether the contract use the deprecated tx.origin to perform the authorization.
- Result: Found
- Severity: Medium

Semantic Consistency Checks

- Description: Whether the semantic of the white paper is different from the implementation of the contract.
- Result: PASSED
- Severity: Critical

Conclusion

In this audit, we thoroughly analyzed Xtremcoin's Smart Contract. The current code base is well organized but there are promptly some low-level Type issues found in the first phase of Smart Contract Audit.

Meanwhile, we need to emphasize that smart contracts as a whole are still in an early, but exciting stage of development. To improve this report, we greatly appreciate any constructive feedbacks or suggestions, on our methodology, audit findings, or potential gaps in scope/coverage.

About eNebula Solutions

We believe that people have a fundamental need to security and that the use of secure solutions enables every person to more freely use the Internet and every other connected technology. We aim to provide security consulting service to help others make their solutions more resistant to unauthorized access to data & inadvertent manipulation of the system. We support teams from the design phase through the production to launch and surely after.

The eNebula Solutions team has skills for reviewing code in C, C++, Python, Haskell, Rust, Node.js, Solidity, Go, and JavaScript for common security vulnerabilities & specific attack vectors. The team has reviewed implementations of cryptographic protocols and distributed system architecture, including in cryptocurrency, blockchains, payments, and smart contracts. Additionally, the team can utilize various tools to scan code & networks and build custom tools as necessary.

Although we are a small team, we surely believe that we can have a momentous impact on the world by being translucent and open about the work we do.

For more information about our security consulting, please mail us at – contact@enebula.in