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**Blockchain Security | Smart Contract Audits | KYC**

MADE IN GERMANY

**IslamiCoin**

**Audit**

**Security Assessment**  
**30. June, 2022**

**For**



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Version	Date	Description
1.0	30. June 2022	<ul style="list-style-type: none"><li>• Layout project</li><li>• Automated- /Manual-Security Testing</li><li>• Summary</li></ul>

## **Network**

Binance Smart Chain (BEP20)

## **Website**

<https://islamicoin.finance/>

## **Telegram**

<https://t.me/IslamiCoinChat>

## **Twitter**

<https://twitter.com/islamicoin>

## **Facebook**

<https://www.facebook.com/islamicoin>

## **Instagram**

<https://intagram.com/islamicoin>

## **Whatsapp**

<https://wa.me/message/PJMEHT55KKN2O1>

## **Youtube**

[https://www.youtube.com/channel/UCPdg9Cx2g9DyTR\\_xD5S\\_IxA](https://www.youtube.com/channel/UCPdg9Cx2g9DyTR_xD5S_IxA)

## **LinkedIn**

<https://linkedin.com/company/islamicoin>

## Description

**ISLAMICOIN:** a Sharia Compliant Certified Islamic Cryptocurrency for the Global Muslim Community and it is a core to develop ISLAMIBLOCKCHAIN.

## Project Engagement

During the 28th of June 2022, **IslamiCoin Team** engaged Solidproof.io to audit smart contracts that they created. The engagement was technical in nature and focused on identifying security flaws in the design and implementation of the contracts. They provided Solidproof.io with access to their code repository and whitepaper.

## Logo



## Contract Link

### v1.0

- Github
  - <https://github.com/ISLAMIBLOCKCHAIN/ISLAMICOIN/tree/main/contracts>
  - Commit: d6b737fb968c4050a40c5b4e4af73d446944ae87

# Vulnerability & Risk Level

Risk represents the probability that a certain source-threat will exploit vulnerability, and the impact of that event on the organization or system. Risk Level is computed based on CVSS version 3.0.

Level	Value	Vulnerability	Risk (Required Action)
<b>Critical</b>	9 - 10	A vulnerability that can disrupt the contract functioning in a number of scenarios, or creates a risk that the contract may be broken.	Immediate action to reduce risk level.
<b>High</b>	7 – 8.9	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.	Implementation of corrective actions as soon as possible.
<b>Medium</b>	4 – 6.9	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.	Implementation of corrective actions in a certain period.
<b>Low</b>	2 – 3.9	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.	Implementation of certain corrective actions or accepting the risk.
<b>Informational</b>	0 – 1.9	A vulnerability that have informational character but is not effecting any of the code.	An observation that does not determine a level of risk

# Auditing Strategy and Techniques Applied

Throughout the review process, care was taken to evaluate the repository for security-related issues, code quality, and adherence to specification and best practices. To do so, reviewed line-by-line by our team of expert pentesters and smart contract developers, documenting any issues as they were discovered.

## Methodology

The auditing process follows a routine series of steps:

1. Code review that includes the following:
  - i) Review of the specifications, sources, and instructions provided to SolidProof to make sure we understand the size, scope, and functionality of the smart contract.
  - ii) Manual review of code, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
  - iii) Comparison to specification, which is the process of checking whether the code does what the specifications, sources, and instructions provided to SolidProof describe.
2. Testing and automated analysis that includes the following:
  - i) Test coverage analysis, which is the process of determining whether the test cases are actually covering the code and how much code is exercised when we run those test cases.
  - ii) Symbolic execution, which is analysing a program to determine what inputs causes each part of a program to execute.
3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.
4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts.

## **Used Code from other Frameworks/Smart Contracts (direct imports)**

Imported packages:

Islamicoin



## Tested Contract Files

This audit covered the following files listed below with a SHA-1 Hash.

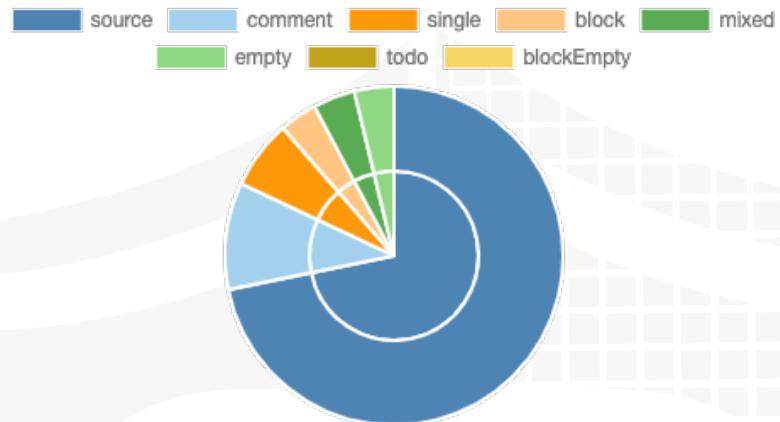
*A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.*

v1.0

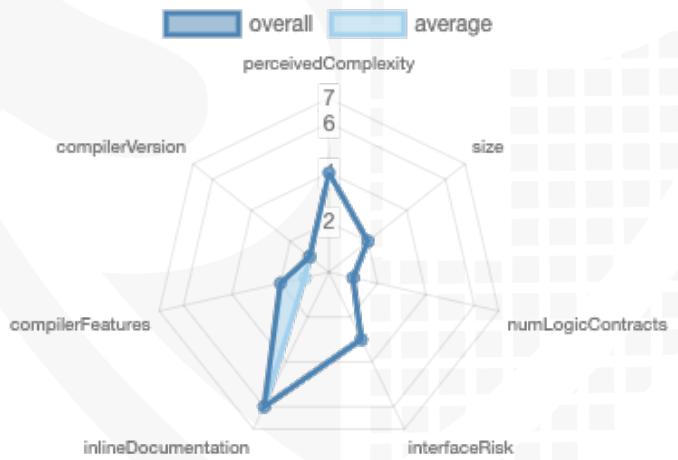
File Name	SHA-1 Hash
contracts/ISLAMInvesting_V4.sol	4d7b1807ab8eadf18e7a8daff45c94302d5ee7e6

# Metrics

## Source Lines v1.0



## Risk Level v1.0



# Capabilities

## Components

Version	Contracts	Libraries	Interfaces	Abstract
1.0	1	0	0	0

## Exposed Functions

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.

Version	Public	Payable
1.0	25	1

Version	External	Internal	Private	Pure	View
1.0	22	29	0	0	2

## State Variables

Version	Total	Public
1.0	30	19

## Capabilities

Version	Solidity Versions observed	Experimental Features	Can Receive Funds	Uses Assembly	Has Destroyable Contracts
1.0	=0.8.1 3		yes		

Version	Transfers ETH	Low-Level Calls	DelegateCall	Uses Hash Functions	EC Recover	New/Create/Create2

1.0	yes						
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## Inheritance Graph v1.0



ISLAMIvesting\_V4

# CallGraph

## v1.0



## **Scope of Work/Verify Claims**

The above token Team provided us with the files that needs to be tested (Github, Bscscan, Etherscan, files, etc.). The scope of the audit is the main contract (usual the same name as team appended with .sol).

We will verify the following claims:

1. Overall checkup (Smart Contract Security)

## Overall checkup (Smart Contract Security)

Tested	Verified
✓	✓

### Legend

Attribute	Symbol
Verified / Checked	✓
Partly Verified	🚩
Unverified / Not checked	✗
Not available	-

# Modifiers and public functions

v1.0

transferOwnership	
onlyOwner	
changeBaytAlMal	
onlyOwner	
setMonthlyPercentage	
onlyOwner	
setMinLock	
onlyOwner	
setEmergencyFee	
onlyOwner	
setOneVote	
onlyOwner	
addToVote	
onlyOwner	
deleteVoteProject	
onlyOwner	
addInvestor	
onlyOwner	
selfLock	
isBlackListed	
nonReentrant	
editSelfLock	
ISslInvestor	
nonReentrant	
extendSelfLock	
ISslInvestor	
nonReentrant	
recoverWallet	
ISslInvestor	
nonReentrant	
selfUnlock	
ISslInvestor	
nonReentrant	
emergencyWithdrawal	
ISslInvestor	
nonReentrant	
claimMonthlyAmount	
isInvestor	
nonReentrant	
claimRemainings	
isInvestor	
nonReentrant	
voteFor	
isBlackListed	
nonReentrant	
releaseWallet	
isInvestor	
nonReentrant	
withdrawalISLAMI	
onlyOwner	
withdrawalERC20	
onlyOwner	
withdrawalMatic	
onlyOwner	

## Comments

- Deployer can set following state variables without any limitations

mP  
minLock  
ewFee

## OneVote

- Deployer can enable/disable following state variables

voteSystem

Add a project to vote system

investor

- Deployer can set following addresses

owner

BaytAlMal

Fee addresse

- Existing Modifiers

- There are several authorities which are authorized to call some functions, that means, if the owner is renounced, another address is still authorized to call functions
  - Be aware of this
- Owner can
  - withdraw matics from contract balance
  - Withdraw tokens from external contracts

**Please check if an OnlyOwner or similar restrictive modifier has been forgotten.**

# Source Units in Scope

## v1.0

### Legend

Attribute	Description
Lines	total lines of the source unit
nLines	normalized lines of the source unit (e.g. normalizes functions spanning multiple lines)
nSLOC	normalized source lines of code (only source-code lines; no comments, no blank lines)
Comment Lines	lines containing single or block comments
Complexity Score	a custom complexity score derived from code statements that are known to introduce code complexity (branches, loops, calls, external interfaces, ...)

# Audit Results

# AUDIT PASSED

## Critical issues

No critical issues

## High issues

No high issues

## Medium issues

No medium issues

## Low issues

Issue	File	Type	Line	Description
#1	Main	Contract doesn't import npm packages from source (like OpenZeppelin etc.)	-	We recommend to import all packages from npm directly without flatten the contract. Functions could be modified or can be susceptible to vulnerabilities
#2	Main	Missing Zero Address Validation (missing-zero-check)	116, 112, 397	Check that the address is not zero
#3	Main	State variable visibility is not set	14, 15, 19, 30,	It is best practice to set the visibility of state variables explicitly
#4	Main	Missing Events Arithmetic	206 126	Emit an event for critical parameter changes
#5	Main	Release wallet can be locked by owner	363	Owner is able to set "mP" to 0 which causes an error while calling "releaseWallet" function because calculation will be divided by 0 then

#6	Main	“claimRemainings” can be locked by owner	280	Owner is able to set “mP” to 0 which causes an error while calling “claimRemainings” function because calculation will be divided by 0 then
#7	Main	“OneVote” can lock functions to be called	357	Owner can lock “voteFor” function by setting “OneVote” to 0 because that function is dividing by “OneVote” parameter

## Informational issues

Issue	File	Type	Line	Description
#1	Main	State variables that could be declared constant (constable-states)	19	Add the `constant` attributes to state variables that never change
#2	Main	Misspelling	See description	Change following words: - Make sure to change it everywhere else as well.
#3	Main	Error message is missing	187, 203,	Provide an error message for require statement
#4	Main	1 days change	153, 186, 210	The comment says that "1 day" parameter will be changed because it is only for testing purposes
#5	Main	Unnecessary line of code	386	You can use "ISLAMI" directly as token
#6	Main	Change modifier name	95	Change modifier name from "isBlacklisted" to "isNotBlacklisted" because functions with modifiers can only be called if the modifier is passed. The name can confuse investors.

## Commented Code exist

There are some instances of code being commented out in the following files that should be removed:

File	Line	Comment
Main	78	//mapping(uint => voteSystem) public projectToVote;
	158	//investor[_investor].monthLock += lockTime.add(monthly);
	162	//require(lockTime > monthly.mul(3), "Please set a time in the future more than 90 days!"); need to activate after testing
	263	//uint256 percentage = investor[msg.sender].monthAllow;
	311	//uint256 basePower = ISLAMI.balanceOf(voter);
	314-329	<pre>/*     if(votingFee == 0 &amp;&amp; Investor[voter] == true){         lockedBasePower = investor[voter].amount;         votePower = lockedBasePower.div(OneVote);         newVote(projectIndex, votePower);         emit Voted(msg.sender, 0);         return();     }     if(votingFee == 0 &amp;&amp; sInvestor[voter] == true){         require(sInvestor[msg.sender].slLockTime &gt;= monthly,"Should lock 30 days");         lockedBasePower = sInvestor[voter].slAmount;         votePower = lockedBasePower.div(OneVote);         newVote(projectIndex, votePower);         emit Voted(msg.sender, 0);         return();     }*/ </pre>
	365	//require(sInvestor[msg.sender].slLockTime >= monthly,"Should lock 30 days");

## Recommendation

Remove the commented code, or address them properly.

## Audit Comments

We recommend you to use the special form of comments (NatSpec Format, Follow link for more information <https://docs.soliditylang.org/en/v0.5.10/natspec-format.html>) for your contracts to provide rich documentation for functions, return variables and more. This helps investors to make clear what that variables, functions etc. do.

## 30. June 2022:

- Read whole report and modifiers section for more information

## SWC Attacks

ID	Title	Relationships	Status
<a href="#">SW C-1 36</a>	Unencrypted Private Data On-Chain	<a href="#">CWE-767: Access to Critical Private Variable via Public Method</a>	PASSED
<a href="#">SW C-1 35</a>	Code With No Effects	<a href="#">CWE-1164: Irrelevant Code</a>	PASSED
<a href="#">SW C-1 34</a>	Message call with hardcoded gas amount	<a href="#">CWE-655: Improper Initialization</a>	PASSED
<a href="#">SW C-1 33</a>	Hash Collisions With Multiple Variable Length Arguments	<a href="#">CWE-294: Authentication Bypass by Capture-replay</a>	PASSED
<a href="#">SW C-1 32</a>	Unexpected Ether balance	<a href="#">CWE-667: Improper Locking</a>	PASSED
<a href="#">SW C-1 31</a>	Presence of unused variables	<a href="#">CWE-1164: Irrelevant Code</a>	PASSED
<a href="#">SW C-1 30</a>	Right-To-Left-Override control character (U+202E)	<a href="#">CWE-451: User Interface (UI) Misrepresentation of Critical Information</a>	PASSED
<a href="#">SW C-1 29</a>	Typographical Error	<a href="#">CWE-480: Use of Incorrect Operator</a>	PASSED
<a href="#">SW C-1 28</a>	DoS With Block Gas Limit	<a href="#">CWE-400: Uncontrolled Resource Consumption</a>	PASSED

<a href="#"><u>SW C-1 27</u></a>	Arbitrary Jump with Function Type Variable	<a href="#">CWE-695: Use of Low-Level Functionality</a>	PASSED
<a href="#"><u>SW C-1 25</u></a>	Incorrect Inheritance Order	<a href="#">CWE-696: Incorrect Behavior Order</a>	PASSED
<a href="#"><u>SW C-1 24</u></a>	Write to Arbitrary Storage Location	<a href="#">CWE-123: Write-what-where Condition</a>	PASSED
<a href="#"><u>SW C-1 23</u></a>	Requirement Violation	<a href="#">CWE-573: Improper Following of Specification by Caller</a>	PASSED
<a href="#"><u>SW C-1 22</u></a>	Lack of Proper Signature Verification	<a href="#">CWE-345: Insufficient Verification of Data Authenticity</a>	PASSED
<a href="#"><u>SW C-1 21</u></a>	Missing Protection against Signature Replay Attacks	<a href="#">CWE-347: Improper Verification of Cryptographic Signature</a>	PASSED
<a href="#"><u>SW C-1 20</u></a>	Weak Sources of Randomness from Chain Attributes	<a href="#">CWE-330: Use of Insufficiently Random Values</a>	PASSED
<a href="#"><u>SW C-11 9</u></a>	Shadowing State Variables	<a href="#">CWE-710: Improper Adherence to Coding Standards</a>	PASSED
<a href="#"><u>SW C-11 8</u></a>	Incorrect Constructor Name	<a href="#">CWE-665: Improper Initialization</a>	PASSED
<a href="#"><u>SW C-11 7</u></a>	Signature Malleability	<a href="#">CWE-347: Improper Verification of Cryptographic Signature</a>	PASSED

<a href="#"><u>SW C-11 6</u></a>	Timestamp Dependence	<a href="#">CWE-829: Inclusion of Functionality from Untrusted Control Sphere</a>	PASSED
<a href="#"><u>SW C-11 5</u></a>	Authorization through tx.origin	<a href="#">CWE-477: Use of Obsolete Function</a>	PASSED
<a href="#"><u>SW C-11 4</u></a>	Transaction Order Dependence	<a href="#">CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')</a>	PASSED
<a href="#"><u>SW C-11 3</u></a>	DoS with Failed Call	<a href="#">CWE-703: Improper Check or Handling of Exceptional Conditions</a>	PASSED
<a href="#"><u>SW C-11 2</u></a>	Delegatecall to Untrusted Callee	<a href="#">CWE-829: Inclusion of Functionality from Untrusted Control Sphere</a>	PASSED
<a href="#"><u>SW C-11 1</u></a>	Use of Deprecated Solidity Functions	<a href="#">CWE-477: Use of Obsolete Function</a>	PASSED
<a href="#"><u>SW C-11 0</u></a>	Assert Violation	<a href="#">CWE-670: Always-Incorrect Control Flow Implementation</a>	PASSED
<a href="#"><u>SW C-1 09</u></a>	Uninitialized Storage Pointer	<a href="#">CWE-824: Access of Uninitialized Pointer</a>	PASSED
<a href="#"><u>SW C-1 08</u></a>	State Variable Default Visibility	<a href="#">CWE-710: Improper Adherence to Coding Standards</a>	NOT PASSED
<a href="#"><u>SW C-1 07</u></a>	Reentrancy	<a href="#">CWE-841: Improper Enforcement of Behavioral Workflow</a>	PASSED
<a href="#"><u>SW C-1 06</u></a>	Unprotected SELFDESTRUCT Instruction	<a href="#">CWE-284: Improper Access Control</a>	PASSED

<a href="#"><u>SW C-1 05</u></a>	Unprotected Ether Withdrawal	<a href="#"><u>CWE-284: Improper Access Control</u></a>	<b>PASSED</b>
<a href="#"><u>SW C-1 04</u></a>	Unchecked Call Return Value	<a href="#"><u>CWE-252: Unchecked Return Value</u></a>	<b>PASSED</b>
<a href="#"><u>SW C-1 03</u></a>	Floating Pragma	<a href="#"><u>CWE-664: Improper Control of a Resource Through its Lifetime</u></a>	<b>PASSED</b>
<a href="#"><u>SW C-1 02</u></a>	Outdated Compiler Version	<a href="#"><u>CWE-937: Using Components with Known Vulnerabilities</u></a>	<b>PASSED</b>
<a href="#"><u>SW C-1 01</u></a>	Integer Overflow and Underflow	<a href="#"><u>CWE-682: Incorrect Calculation</u></a>	<b>PASSED</b>
<a href="#"><u>SW C-1 00</u></a>	Function Default Visibility	<a href="#"><u>CWE-710: Improper Adherence to Coding Standards</u></a>	<b>PASSED</b>

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