AuditAce
FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

UncleJohnCoin

DATED : 14 June 23'

AUDIT SUMMARY

Project name – UncleJohnCoin

Date: 14 June, 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: Passed

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0

USED TOOLS

Tools:

1- Manual Review:
A line by line code review has been performed by audit ace team.

2- BSC Test Network: All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

3- Slither :
The code has undergone static analysis using Slither.

Testnet version:
The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:
https://testnet.bscscan.com/address/0x21C8C5128e0B02012B92CE33196953020A00B57F#code

Token Information

Token Name : UncleJohnCoin

Token Symbol: UJC

Decimals: 18

Token Supply: 44,444,444,444,444

Token Address:
0xaD697d766B19AC18F48DaC87d73a8f3560AEA44d

Checksum:
3da994a19e737337c009e842595e96cb7e2d3b93

Owner:
0x8A39f07449C0D0Df147508b9F3684BFb2B06E6CD

Deployer:
0x8A39f07449C0D0Df147508b9F3684BFb2B06E6CD

TOKEN OVERVIEW

Fees:

Buy Fees: 0%

Sell Fees: 0%

Transfer Fees: 0%

Fees Privilege: None

Ownership: owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Privileges: Initial distribution of tokens

AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code isexercised when we run the test cases.
- Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.

VULNERABILITY CHECKLIST

- Return values of low-level calls
- Private modifier
- Multiple Sends
- Using Suicide
- Gas Limitand Loops
- Address hardcoded
- Exception Disorder
- Using inline assembly
- Divide before multiply
- Missing Zero Address Validation
- Compiler version not fixed
- **Gasless Send**
- Using block.timestamp
- Re-entrancy
- Tautology or contradiction
- Timestamp Dependence
- Revert/require functions
- Use of tx.origin
- Integer overflow/underflow
- Dangerous strict equalities
- Using SHA3
- Using throw

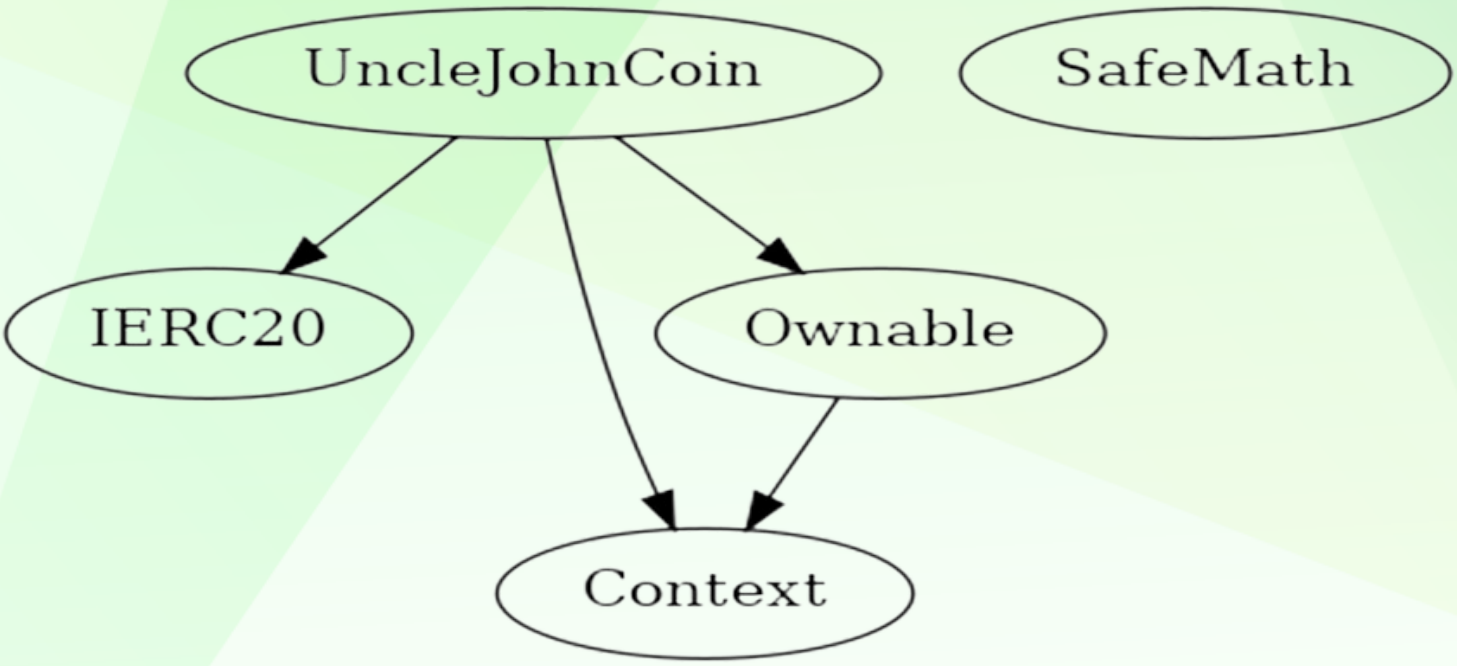
CLASSIFICATION OF RISK

Severity	Description
Critical	These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
Gas Optimization /Suggestion	A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
Critical	0
High-Risk	0
Medium-Risk	0
Low-Risk	0
Gas Optimization / Suggestions	0

INHERITANCE TREE



POINTS TO NOTE

- Fees are 0 (static)
- Owner is not able to blacklist an arbitrary address.
- Owner is not able to disable trades
- Owner is not able to limit buy/sell/transfer/wallet amounts
- Owner is not able to mint new tokens

CONTRACT ASSESMENT

Contract	Type	Bases		
└	**Function Name**	**Visibility**	**Mutability**	**Modifiers**
IERC20	Interface				
└	totalSupply	External ❗		NO ❗
└	decimals	External ❗		NO ❗
└	symbol	External ❗		NO ❗
└	name	External ❗		NO ❗
└	getOwner	External ❗		NO ❗
└	balanceOf	External ❗		NO ❗
└	transfer	External ❗	🛑	NO ❗
└	allowance	External ❗		NO ❗
└	approve	External ❗	🛑	NO ❗
└	transferFrom	External ❗	🛑	NO ❗
Context	Implementation				
└	<Constructor>	Public ❗	🛑	NO ❗
└	_msgSender	Internal 🔒		
└	_msgData	Internal 🔒		
SafeMath	Library				
└	add	Internal 🔒		
└	sub	Internal 🔒		
└	sub	Internal 🔒		
└	mul	Internal 🔒		
└	div	Internal 🔒		
└	div	Internal 🔒		
└	mod	Internal 🔒		
└	mod	Internal 🔒		
Ownable	Implementation	Context			
└	<Constructor>	Public ❗	🛑	NO ❗
└	owner	Public ❗		NO ❗
└	renounceOwnership	Public ❗	🛑	onlyOwner
└	transferOwnership	Public ❗	🛑	onlyOwner
└	_transferOwnership	Internal 🔒	🛑	
UncleJohnCoin	Implementation	Context, IERC20, Ownable			
└	<Constructor>	Public ❗	🛑	NO ❗
└	getOwner	External ❗		NO ❗
└	decimals	External ❗		NO ❗
└	symbol	External ❗		NO ❗

CONTRACT ASSESMENT

└	name	External ❗		NO ❗
└	totalSupply	External ❗		NO ❗
└	balanceOf	External ❗		NO ❗
└	transfer	External ❗	🛑	NO ❗
└	allowance	External ❗		NO ❗
└	approve	External ❗	🛑	NO ❗
└	transferFrom	External ❗	🛑	NO ❗
└	increaseAllowance	Public ❗	🛑	NO ❗
└	decreaseAllowance	Public ❗	🛑	NO ❗
└	_transfer	Private 🔐	🛑	
└	_transferStandard	Private 🔐	🛑	
└	_approve	Internal 🔒	🛑	

Legend

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

STATIC ANALYSIS

```
UncleJohnCoin.allowance(address,address).owner (contracts/Token.sol#423) shadows:
        - Ownable.owner() (contracts/Token.sol#302-304) (function)
UncleJohnCoin._approve(address,address,uint256).owner (contracts/Token.sol#541) shadows:
        - Ownable.owner() (contracts/Token.sol#302-304) (function)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing

Context._msgData() (contracts/Token.sol#118-121) is never used and should be removed
SafeMath.div(uint256,uint256) (contracts/Token.sol#217-219) is never used and should be removed
SafeMath.div(uint256,uint256,string) (contracts/Token.sol#232-239) is never used and should be removed
SafeMath.mod(uint256,uint256) (contracts/Token.sol#252-254) is never used and should be removed
SafeMath.mod(uint256,uint256,string) (contracts/Token.sol#267-270) is never used and should be removed
SafeMath.mul(uint256,uint256) (contracts/Token.sol#192-204) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code

Pragma version^0.8.17 (contracts/Token.sol#5) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
solc-0.8.20 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

Redundant e                                    ntracts/Token.sol#119)" inContext (contracts/Token.sol#109-122)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

UncleJohnCoin._decimals (contracts/Token.sol#351) should be immutable
UncleJohnCoin._name (contracts/Token.sol#353) should be immutable
UncleJohnCoin._symbol (contracts/Token.sol#352) should be immutable
UncleJohnCoin._totalSupply (contracts/Token.sol#350) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

Follow link (ctrl + click)

Result => A static analysis of contract's source code has been performed using slither,

No major issues were found in the output

FUNCTIONAL TESTING

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x901599548c622fc2d8c453ffb60c694e95ec31cbf089280f9f67ce64dffda27c

2- Buying (0% tax) (passed):

https://testnet.bscscan.com/tx/0x9538b95347dd5590a2318f10e7d95dad2b81e2aa162de7f09f5d8adc7eda2c85

3- Selling (0% tax) (passed):

https://testnet.bscscan.com/tx/0x10239b8f98d72405b69da5df2fa940bd81a4f1ef3460ce18483509a44ebbb96f

4- Transferring 0% tax) (passed):

https://testnet.bscscan.com/tx/0xaffbb8677e109c3e8171d73ba1a15bc3f6019e4be659156a2ce89e0cbabba3a9

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