AuditAce

FROM INCEPTION TO SUCCESS

Smart Contract Audit

FOR

ReelFi

DATED : 30 JAN 23'

AUDIT SUMMARY

Project name – ReelFi

Date: 30 January , 2023

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

Audit Status: Passed (Contract is developed by Pinksale safu dev)

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 done on BSC Testnet network, each test has its transaction has attached to it. . You can check this tests in **"functionality tests"** section of the report.

3- Slither : Static Analysis

Testnet Link: all tests were done using this contract, tests are done on BSC Testnet

https://testnet.bscscan.com/token/0x96aa3598231dc2eec650119f0ed17dc2b73ed075

Token Information

Token Name : ReelFi

Token Symbol: Reelfi

Decimals: 18

Token Supply: 10,000,000

Token Address:
0xD3513dc0DF25f60c71822E7bacaC14f9391845ff

Checksum:
f42f4af79b37608dcf6f7c18e579f93c86437fb8a920
f082a1d0fb2f3311184d

Owner:
0x4db88bec2f5f8b2e33e88a05b63a0843e54c0d76

TOKEN OVERVIEW

Fees:

Buy Fees: 0%

Sell Fees: 6%

Transfer Fees: 0%

Fees Privilige: Owner

Ownership : Owned

Minting: No mint function

Max Tx Amount: buys and sells, can not be lesser than 0.1% of total supply

Blacklist: No

Other Priviliges: setting max buy & sell amounts

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.
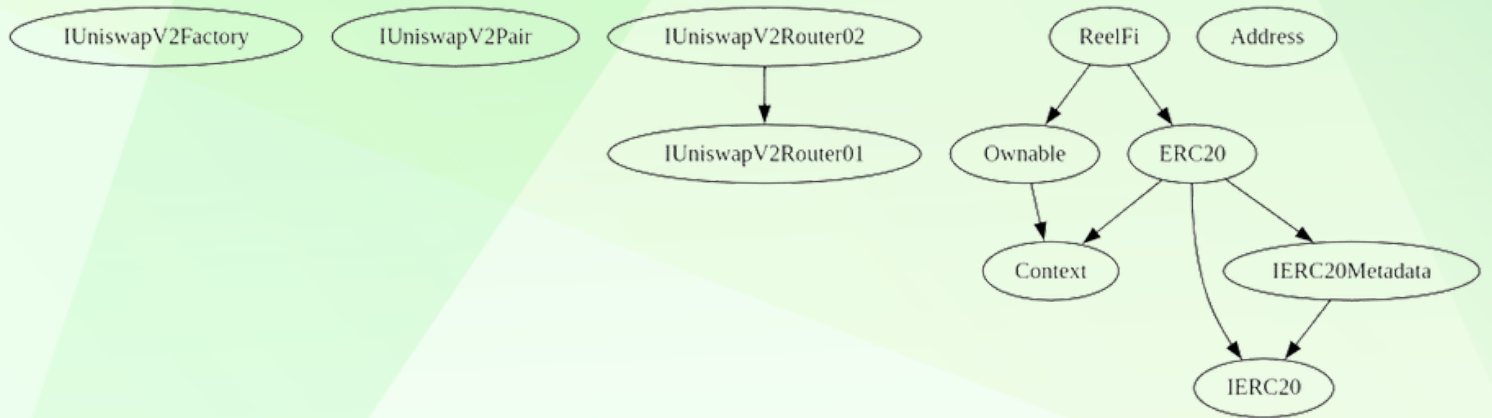
Findings

Severity

Found

◆ **Critical**

0

◆ **High-Risk**

0

◆ **Medium-Risk**

0

◆ **Low-Risk**

0

◆ **Gas Optimization / Suggestions**

0

INHERITANCE TREE

POINTS TO NOTE

- Owner is not able to change taxes (6% sell, 0% buy, 0% transfer)

- Owner is not able to blacklist an arbitrary wallet

- Owner is not able to set max buy/sell/transfer amounts

- Owner is not able to disable trades

- Owner is not able to mint new tokens

CONTRACT ASSESMENT

Contract	Type	Bases		
L	**Function Name**	**Visibility**	**Mutability**	**Modifiers**
IUniswapV2Factory	Interface			
L	feeTo	External ❗		NO❗
L	feeToSetter	External ❗		NO❗
L	getPair	External ❗		NO❗
L	allPairs	External ❗		NO❗
L	allPairsLength	External ❗		NO❗
L	createPair	External ❗	🛑	NO❗
L	setFeeTo	External ❗	🛑	NO❗
L	setFeeToSetter	External ❗	🛑	NO❗
IUniswapV2Pair	Interface			
L	name	External ❗		NO❗
L	symbol	External ❗		NO❗
L	decimals	External ❗		NO❗
L	totalSupply	External ❗		NO❗
L	balanceOf	External ❗		NO❗
L	allowance	External ❗		NO❗
L	approve	External ❗	🛑	NO❗
L	transfer	External ❗	🛑	NO❗
L	transferFrom	External ❗	🛑	NO❗
L	DOMAIN_SEPARATOR	External ❗		NO❗
L	PERMIT_TYPEHASH	External ❗		NO❗
L	nonces	External ❗		NO❗
L	permit	External ❗	🛑	NO❗
L	MINIMUM_LIQUIDITY	External ❗		NO❗
L	factory	External ❗		NO❗
L	token0	External ❗		NO❗
L	token1	External ❗		NO❗
L	getReserves	External ❗		NO❗
L	price0CumulativeLast	External ❗		NO❗
L	price1CumulativeLast	External ❗		NO❗
L	kLast	External ❗		NO❗
L	mint	External ❗	🛑	NO❗
L	burn	External ❗	🛑	NO❗
L	swap	External ❗	🛑	NO❗
L	skim	External ❗	🛑	NO❗
L	sync	External ❗	🛑	NO❗
L	initialize	External ❗	🛑	NO❗

CONTRACT ASSESMENT

|					
IUniswapV2Router01	Interface				
└	factory	External ❗			NO❗
└	WETH	External ❗			NO❗
└	addLiquidity	External ❗	🛑		NO❗
└	addLiquidityETH	External ❗	💵		NO❗
└	removeLiquidity	External ❗	🛑		NO❗
└	removeLiquidityETH	External ❗	🛑		NO❗
└	removeLiquidityWithPermit	External ❗	🛑		NO❗
└	removeLiquidityETHWithPermit	External ❗	🛑		NO❗
└	swapExactTokensForTokens	External ❗	🛑		NO❗
└	swapTokensForExactTokens	External ❗	🛑		NO❗
└	swapExactETHForTokens	External ❗	💵		NO❗
└	swapTokensForExactETH	External ❗	🛑		NO❗
└	swapExactTokensForETH	External ❗	🛑		NO❗
└	swapETHForExactTokens	External ❗	💵		NO❗
└	quote	External ❗			NO❗
└	getAmountOut	External ❗			NO❗
└	getAmountIn	External ❗			NO❗
└	getAmountsOut	External ❗			NO❗
└	getAmountsIn	External ❗			NO❗
IUniswapV2Router02	Interface	IUniswapV2Router01			
└	removeLiquidityETHSupportingFeeOnTransferTokens	External ❗	🛑		NO❗
└	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External ❗	🛑		NO❗
└	swapExactTokensForTokensSupportingFeeOnTransferTokens	External ❗	🛑		NO❗
└	swapExactETHForTokensSupportingFeeOnTransferTokens	External ❗	💵		NO❗
└	swapExactTokensForETHSupportingFeeOnTransferTokens	External ❗	🛑		NO❗
IERC20	Interface				
└	totalSupply	External ❗			NO❗
└	balanceOf	External ❗			NO❗
└	transfer	External ❗	🛑		NO❗
└	allowance	External ❗			NO❗
└	approve	External ❗	🛑		NO❗
└	transferFrom	External ❗	🛑		NO❗
IERC20Metadata	Interface	IERC20			
└	name	External ❗			NO❗
└	symbol	External ❗			NO❗
└	decimals	External ❗			NO❗

CONTRACT ASSESMENT

Address	Library				
└	isContract	Internal 🔒		
└	sendValue	Internal 🔒	🛑	
└	functionCall	Internal 🔒	🛑	
└	functionCall	Internal 🔒	🛑	
└	functionCallWithValue	Internal 🔒	🛑	
└	functionCallWithValue	Internal 🔒	🛑	
└	functionStaticCall	Internal 🔒		
└	functionStaticCall	Internal 🔒		
└	functionDelegateCall	Internal 🔒	🛑	
└	functionDelegateCall	Internal 🔒	🛑	
└	verifyCallResultFromTarget	Internal 🔒		
└	verifyCallResult	Internal 🔒		
└	_revert	Private 🔐		
Context	Implementation			
└	_msgSender	Internal 🔒		
└	_msgData	Internal 🔒		
Ownable	Implementation	Context		
└	<Constructor>	Public ❗	🛑	NO❗
└	owner	Public ❗		NO❗
└	renounceOwnership	Public ❗	🛑	onlyOwner
└	transferOwnership	Public ❗	🛑	onlyOwner
ERC20	Implementation	Context, IERC20, IERC20Metadata		
└	<Constructor>	Public ❗	🛑	NO❗
└	name	Public ❗		NO❗
└	symbol	Public ❗		NO❗
└	decimals	Public ❗		NO❗
└	totalSupply	Public ❗		NO❗
└	balanceOf	Public ❗		NO❗
└	transfer	Public ❗	🛑	NO❗
└	allowance	Public ❗		NO❗
└	approve	Public ❗	🛑	NO❗
└	transferFrom	Public ❗	🛑	NO❗
└	increaseAllowance	Public ❗	🛑	NO❗
└	decreaseAllowance	Public ❗	🛑	NO❗
└	_transfer	Internal 🔒	🛑	
└	_mint	Internal 🔒	🛑	
└	_burn	Internal 🔒	🛑	

CONTRACT ASSESMENT

└	_approve	Internal 🔒	🛑		
└	_beforeTokenTransfer	Internal 🔒	🛑		
└	_afterTokenTransfer	Internal 🔒	🛑		
ReelFi	Implementation	ERC20, Ownable		
└	<Constructor>	Public ❗	🛑	ERC20
└	<Receive Ether>	External ❗	💵	NO❗
└	claimStuckTokens	External ❗	🛑	onlyOwner
└	excludeFromFees	External ❗	🛑	onlyOwner
└	isExcludedFromFees	Public ❗		NO❗
└	changeMarketingWallet	External ❗	🛑	onlyOwner
└	changeStakingWallet	External ❗	🛑	onlyOwner
└	changeAppRewardWallet	External ❗	🛑	onlyOwner
└	enableTrading	External ❗	🛑	onlyOwner
└	_transfer	Internal 🔒	🛑		
└	setSwapEnabled	External ❗	🛑	onlyOwner
└	setSwapTokensAtAmount	External ❗	🛑	onlyOwner
└	swapAndSendWallets	Private 🔐	🛑		
└	setEnableMaxTransactionLimit	External ❗	🛑	onlyOwner
└	setMaxTransactionAmounts	External ❗	🛑	onlyOwner
└	excludeFromMaxTransactionLimit	External ❗	🛑	onlyOwner
└	isExcludedFromMaxTransaction	Public ❗		NO❗

Symbol	Meaning
🛑	Function can modify state
💵	Function is payable

STATIC ANALYSIS

```
ReelFi.constructor().router (contracts/Ace_Testing_BSC.sol#830) is a local variable never initialized
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#uninitialized-local-variables

Reentrancy in ReelFi._transfer(address,address,uint256) (contracts/Ace_Testing_BSC.sol#982-1074):
        External calls:
        - swapAndSendWallets(bnbTokens) (contracts/Ace_Testing_BSC.sol#1041)
                - (success) = recipient.call{value: amount}() (contracts/Ace_Testing_BSC.sol#397)
        - uniswapV2Router.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (contracts/Ace_Testing_BSC.sol#1100-1106)
        - address(marketingWallet).sendValue(marketingAmount) (contracts/Ace_Testing_BSC.sol#1112)
        - address(stakingWallet).sendValue(newBalance - marketingAmount) (contracts/Ace_Testing_BSC.sol#1113)
        External calls sending eth:
        - swapAndSendWallets(bnbTokens) (contracts/Ace_Testing_BSC.sol#1041)
                - (success) = recipient.call{value: amount}() (contracts/Ace_Testing_BSC.sol#397)
        Event emitted after the call(s):
        - Transfer(sender,recipient,amount) (contracts/Ace_Testing_BSC.sol#741)
                - super._transfer(from,address(this),fees) (contracts/Ace_Testing_BSC.sol#1070)
        - Transfer(sender,recipient,amount) (contracts/Ace_Testing_BSC.sol#741)
                - super._transfer(from,to,amount) (contracts/Ace_Testing_BSC.sol#1073)
        - Transfer(sender,recipient,amount) (contracts/Ace_Testing_BSC.sol#741)
                - super._transfer(from,appRewardWallet,appTokens) (contracts/Ace_Testing_BSC.sol#1047)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#reentrancy-vulnerabilities-3

Address._revert(bytes,string) (contracts/Ace_Testing_BSC.sol#545-560) uses assembly
        - INLINE ASM (contracts/Ace_Testing_BSC.sol#553-556)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#assembly-usage

Address._revert(bytes,string) (contracts/Ace_Testing_BSC.sol#545-560) is never used and should be removed
Address.functionCall(address,bytes) (contracts/Ace_Testing_BSC.sol#404-415) is never used and should be removed
Address.functionCall(address,bytes,string) (contracts/Ace_Testing_BSC.sol#417-423) is never used and should be removed
Address.functionCallWithValue(address,bytes,uint256) (contracts/Ace_Testing_BSC.sol#425-437) is never used and should be removed
Address.functionCallWithValue(address,bytes,uint256,string) (contracts/Ace_Testing_BSC.sol#439-459) is never used and should be removed
Address.functionDelegateCall(address,bytes) (contracts/Ace_Testing_BSC.sol#488-498) is never used and should be removed
Address.functionDelegateCall(address,bytes,string) (contracts/Ace_Testing_BSC.sol#500-513) is never used and should be removed
Address.functionStaticCall(address,bytes) (contracts/Ace_Testing_BSC.sol#461-471) is never used and should be removed
Address.functionStaticCall(address,bytes,string) (contracts/Ace_Testing_BSC.sol#473-486) is never used and should be removed
Address.isContract(address) (contracts/Ace_Testing_BSC.sol#387-389) is never used and should be removed
Address.verifyCallResult(bool,bytes,string) (contracts/Ace_Testing_BSC.sol#533-543) is never used and should be removed
Address.verifyCallResultFromTarget(address,bool,bytes,string) (contracts/Ace_Testing_BSC.sol#515-531) is never used and should be removed
Context._msgData() (contracts/Ace_Testing_BSC.sol#568-571) is never used and should be removed
ERC20._burn(address,uint256) (contracts/Ace_Testing_BSC.sol#758-773) is never used and should be removed
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#dead-code
```

```
Pragma version0.8.17 (contracts/Ace_Testing_BSC.sol#19) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16
solc-0.8.17 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) (contracts/Ace_Testing_BSC.sol#391-402):
        - (success) = recipient.call{value: amount}() (contracts/Ace_Testing_BSC.sol#397)
Low level call in Address.functionCallWithValue(address,bytes,uint256,string) (contracts/Ace_Testing_BSC.sol#439-459):
        - (success,returndata) = target.call{value: value}(data) (contracts/Ace_Testing_BSC.sol#449-451)
Low level call in Address.functionStaticCall(address,bytes,string) (contracts/Ace_Testing_BSC.sol#473-486):
        - (success,returndata) = target.staticcall(data) (contracts/Ace_Testing_BSC.sol#478)
Low level call in Address.functionDelegateCall(address,bytes,string) (contracts/Ace_Testing_BSC.sol#500-513):
        - (success,returndata) = target.delegatecall(data) (contracts/Ace_Testing_BSC.sol#505)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls

Function IUniswapV2Pair.DOMAIN_SEPARATOR() (contracts/Ace_Testing_BSC.sol#81) is not in mixedCase
Function IUniswapV2Pair.PERMIT_TYPEHASH() (contracts/Ace_Testing_BSC.sol#83) is not in mixedCase
Function IUniswapV2Pair.MINIMUM_LIQUIDITY() (contracts/Ace_Testing_BSC.sol#114) is not in mixedCase
Function IUniswapV2Router01.WETH() (contracts/Ace_Testing_BSC.sol#154) is not in mixedCase
Event ReelFiappRewardWalletChanged(address) (contracts/Ace_Testing_BSC.sol#826) is not in CapWords
Parameter ReelFi.changeMarketingWallet(address)._marketingWallet (contracts/Ace_Testing_BSC.sol#921) is not in mixedCase
Parameter ReelFi.changeStakingWallet(address)._stakingWallet (contracts/Ace_Testing_BSC.sol#936) is not in mixedCase
Parameter ReelFi.changeAppRewardWallet(address)._appRewardWallet (contracts/Ace_Testing_BSC.sol#951) is not in mixedCase
Parameter ReelFi.setSwapEnabled(bool)._enabled (contracts/Ace_Testing_BSC.sol#1078) is not in mixedCase
Parameter ReelFi.setMaxTransactionAmounts(uint256,uint256)._maxTransactionAmountBuy (contracts/Ace_Testing_BSC.sol#1144) is not in mixedCase
Parameter ReelFi.setMaxTransactionAmounts(uint256,uint256)._maxTransactionAmountSell (contracts/Ace_Testing_BSC.sol#1145) is not in mixedCase
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

Redundant expression "this (contracts/Ace_Testing_BSC.sol#569)" inContext (contracts/Ace_Testing_BSC.sol#563-572)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements

Variable IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (contracts/Ace_Testing_BSC.sol#159) is too similar to IUniswapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (contracts/Ace_Testing_BSC.sol#160)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar

ReelFi.appRewardFeeOnSell (contracts/Ace_Testing_BSC.sol#812) should be immutable
ReelFi.creator (contracts/Ace_Testing_BSC.sol#808) should be immutable
ReelFi.marketingFeeOnSell (contracts/Ace_Testing_BSC.sol#810) should be immutable
ReelFi.stakingFeeOnSell (contracts/Ace_Testing_BSC.sol#811) should be immutable
ReelFi.uniswapV2Pair (contracts/Ace_Testing_BSC.sol#804) should be immutable
ReelFi.uniswapV2Router (contracts/Ace_Testing_BSC.sol#803) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

Result => A static analysis of contract's source code has been performed using slither, no major issues were found

FUNCTIONAL TESTING

Router (PCS V2):
0xD99D1c33F9fC3444f8101754aBC46c52416550D1

0- Deploying (Passed):

https://testnet.bscscan.com/tx/0x79945c3205a4dcfa03c5194dac158039872cfe910362bf9a9976629422b5437b

1- Adding Liquidity (Passed):
liquidity added on Pancakeswap V2:

https://testnet.bscscan.com/tx/0x0f707d84bf8d5c9d9810bc6748e07435064d74657ef974a8520d3f86fba2d376

no issue were found on adding liquidity.

2- Enabling trade for public (Passed):

https://testnet.bscscan.com/tx/0x940ada1067ee05dff5f15898f798a8ae272682e9663e761a0f9ea6a8dc350a96

3- Excluding deployer's wallet from taxes (to test taxes) (Passed):

https://testnet.bscscan.com/tx/0x822169c4349e79124253a3439d7f3e24f7960eacea0bad17a3ae9a360881efa1

FUNCTIONAL TESTING

4- Buying from a non-whitelisted wallet (Passed):
https://testnet.bscscan.com/tx/0xcd8a3cce90986178d972f925c3f0bf9a99defdc6813153b723c2ca4a5f2ecaae

0% static tax on buys

5- Selling from a non-whitelisted wallet (Passed):

https://testnet.bscscan.com/tx/0xe79c5a9ee9a1aa4af1e5beb1c2116b55e54ac2f7a0949f065e7358f3c748e965

6% static tax on sells

6- Internal Swap (Passed):

taxes were swapped to BNB and sent to staking and marketing wallets:

staking:
https://testnet.bscscan.com/address/0x9fdd17365a2328f29ce04a3d25ebff7035c240a7#internaltx

marketing:
https://testnet.bscscan.com/address/0x70d7fc28a52f7112d9c50e86bdcf6ef4ca167542#internaltx

FUNCTIONAL TESTING

7- Transferring tokens from a non-whitelisted wallet to a non-whitelisted wallet **(Passed)**:

0% static tax on transfers

https://testnet.bscscan.com/tx/0xac725c2102ab6a832cf92e10683ab06256b2be79f2092d30b044678df1334ebf

8- Buying from a limit-excluded wallet (Passed):

https://testnet.bscscan.com/tx/0x468cd8e8f5d618f92bf872488dc8ed52e3608a11a86eda363a0797498c574345

9 Buying same amount from a limited wallet (failed as expected) :

https://testnet.bscscan.com/tx/0x0a0a26a5221193166c46997375a2442f5f253294ffe9c4ebf40a13fde9bde1d7

MANUAL TESTING

NO ISSUES WERE FOUND

DISCLAIMER

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ABOUT AUDITACE

We specializes in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.

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