

Smart Contract Audit

FOR

Quiz Al

DATED: 16 FEB 23'



AUDIT SUMMARY

Project name - Quiz Ai

Date: 16 February, 2023

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

Audit Status: Passed(Contract 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 Test network, each test has its transaction has attached to it.

3- Slither: Static Analysis

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

https://testnet.bscscan.com/address/0x2f8add358c 7fb162669Fc385071b3e65aFDfE671#code



Token Information

Token Name: Quiz Box

Token Symbol: Quiz Al

Decimals: 9

Token Supply: 10,000,000

Token Address:

0x43B1004fd1743acc1959c182B5c6691651db2dDd

Checksum:

a2ea4c87e83eab70edc4f39c2e7077389c3dd010c20 cadfb9c58d7278cc3deec

Owner:

0x4c57dc49065712d57fa438631e6ba2b03522b475



TOKEN OVERVIEW

Fees:

Buy Fees: 5%

Sell Fees: 5%

Transfer Fees: 0%

Fees Privilige: Owner

Ownership: Owned

Minting: No mint function

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No

Other Priviliges: None



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-byline 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





CLASSIFICATION OF RISK

Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization/Suggestion

Description

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

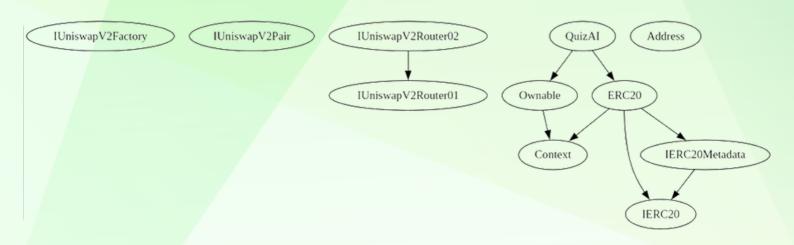
A vulnerability that has an informational character but is not affecting any of the code.

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 set buy/sell taxes over 5%
- 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 |
                Type
                              Bases
<mark>|;-----:|;|;-----:|</mark>:|;-----:|
       **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
111111
**IUniswapV2Factory** | Interface | |||
| L | feeTo | External | | NO | |
| | | feeToSetter | External | | | NO
| | getPair | External | | NO | |
| | allPairs | External | | NO | |
| | allPairsLength | External | | NO | |
📙 createPair | External 📗 | 🛑 | NO 📗
📙 | 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 | |
```



```
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| **IUniswapV2Router01** | Interface | | | | | |
| L | factory | External | | NO | |
| L | WETH | External | | NO | |
| L | addLiquidity | External | | | NO | |
| L | removeLiquidity | External | | | NO | |
| | removeLiquidityETH | External | | | NO | |
| | removeLiquidityWithPermit | External | | | NO | |
| | removeLiquidityETHWithPermit | External | | | NO | |
| L | swapExactTokensForTokens | External | | ( NO | |
📙 | swapTokensForExactTokens | External 📗 | 🛑 | NO 🛚 |
| L | swapExactETHForTokens | External | | 🔟 | NO | | |
| L | swapTokensForExactETH | External | | | | NO | |
| L | swapExactTokensForETH | External | | | NO | |
| L | swapETHForExactTokens | External | | I NO | |
| L | quote | External | | | NO | |
| L | getAmountOut | External L | NOL |
| L | getAmountIn | External | | NO | |
| L | getAmountsOut | External | | NO | |
| L | getAmountsIn | External | | NO | |
\mathbf{H}
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 | | | | | |
| L | removeLiquidityETHSupportingFeeOnTransferTokens | External | | | NO | |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External | | | | NO | |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External | | | NO | |
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| **IERC20** | Interface | | | | | |
| L | totalSupply | External | | NO | |
| L | balanceOf | External | | NO | |
| L | transfer | External | | | NO | |
| L | allowance | External | | NO | |
| L | approve | External | | | NO | |
| L | transferFrom | External | | | NO | |
IIIIIII
| **IERC20Metadata** | Interface | IERC20 | | | |
| L | name | External | | NO | |
| L | symbol | External | | NO | |
| L | decimals | External | | NO | |
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```



```
| **Address** | Library | ||| | | |
| L | sendValue | Internal 🦲 | 🛑 | |
| L | functionCall | Internal 🦰 | 🛑 | |
| L | functionCall | Internal 🦲 | 🦲 | |
| L | functionCallWithValue | Internal 🦲 | 🛑 | |
| L | functionCallWithValue | Internal 🦰 | 🛑 | |
| | | functionStaticCall | Internal | | | | |
| | | functionStaticCall | Internal | | | | |
| L | functionDelegateCall | Internal 🦲 | 🛑 | |
| L | functionDelegateCall | Internal 🦰 | 🛑 | |
| L | verifyCallResult | Internal 🦰 | | |
| L | revert | Private 🦳 | | |
\Pi\Pi\Pi\Pi\Pi
| **Context** | Implementation | |||
| L | _msgSender | Internal 🖺 | | |
| L | _msgData | Internal 🦲 | | |
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| **Ownable** | Implementation | Context | | | |
| L | <Constructor> | Public | | ( NO | |
| L | owner | Public | | NO | |
| L | renounceOwnership | Public | | (e) | onlyOwner |
| L | transferOwnership | Public | | ( ) | onlyOwner |
IIIIIII
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | | | | | |
| L | <Constructor> | Public | | ( ) | NO | |
| L | name | Public | | NO | |
| L | symbol | Public | | NO | |
| L | decimals | Public | | NO | |
| L | totalSupply | Public | | NO | |
| L | balanceOf | Public | | NO | |
| L | transfer | Public | | | | NO | |
| L | allowance | Public | | NO | |
| L | approve | Public | | | NO | |
| L | transferFrom | Public | | ( ) | NO | |
| L | increaseAllowance | Public | | | NO | |
| L | decreaseAllowance | Public | | | NO | |
| L | _transfer | Internal 🦰 | 🛑 | |
| L | _mint | Internal 🦰 | 🛑 | |
| L | _burn | Internal 🦲 | 🧓 | |
```



```
| L | _approve | Internal 🖰 | 🛑 | |
| L | _beforeTokenTransfer | Internal 🦰 | 🛑 | |
| L | _afterTokenTransfer | Internal 🦰 | 🛑 | |
**QuizAI** | Implementation | ERC20, Ownable | | |
| | | Constructor> | Public | | | | | | ERC20 |
| L | <Receive Ether> | External | | | | NO | |
| L | claimStuckTokens | External | | | | onlyOwner |
| | | isExcludedFromFees | Public | | | NO | |
| L | changeMarketingWallet | External | | ( ) | onlyOwner |
| L | changeCharityWallet | External | | | | onlyOwner |
| L | updateBuyFees | External | | 🛑 | onlyOwner |
| L | updateSellFees | External | | | | onlyOwner |
| L | enableTrading | External | | | | onlyOwner |
| L | _transfer | Internal 🦰 | 🛑 | |
| L | setSwapEnabled | External | | | | onlyOwner |
| L | setSwapTokensAtAmount | External | | | | onlyOwner |
| L | swapAndLiquify | Private 🦳 | 🦲 | |
| L | swapAndSendTokens | Private 🖺 | 🧶 | |
| Symbol | Meaning |
|:-----|
  | Function can modify state |
   Function is payable |
```



STATIC ANALYSIS

```
Address, functionitatic(all(address, bytes) (contracts/foken.ols/953-964) is never used and should be removed
Address. incrinationitatic(all(address, bytes, string) (contracts/foken.ols/952-963) is never used and should be removed
Address.verify(all@sultrool.bytes.string) (contracts/foken.ols/952-963) is never used and should be removed
Address.verify(all@sultrool.bytes.string) (contracts/foken.ols/952-964) is never used and should be removed
Context.ssp@atai) (contracts/foken.ols/952-964) is never used and should be removed
Context.ssp@atai) (contracts/foken.ols/952-964) is never used and should be removed
Context.ssp@atai) (contracts/foken.ols/952-964) is never used and should be removed
Reference. https://pithb.com/cryic/silibe/rukk/fotector-bocommistionidead-code
Refe
```

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

No major issues were found in the output



FUNCTIONAL TESTING

Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

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

https://testnet.bscscan.com/tx/0xa066d82903a3a6905c15ab79fb 34ff4507e2a3596d6feb7421e04a0ef8ba369b

2- Buying (liquidity, marketing, charity = 5% max)(Passed): couldn't buy for 10 blocks after launch (anti-bot)

https://testnet.bscscan.com/tx/0x26953c3566bbb072cc9b89a5ae 20f19449654b6bb64e64aba3422f7a963042bb

3- Selling (liquidity, marketing, charity = 5% max)(Passed):

https://testnet.bscscan.com/tx/0x6fe2586e5635641561b129dca9 533174657ba4c3c3c2ccbf01f0b937072aa8d4

4-Transferring (sell fees apply for transfer fees except burning) (Passed):

https://testnet.bscscan.com/tx/0x63f445b7fee5bd8b74ec91bba7 b3017d2f9027b1329451c583741ea192dd52b9



FUNCTIONAL TESTING

5-Auto Liquidity(Passed):

https://testnet.bscscan.com/token/0x7ef6b5bef23258db405daa4f 23985541c17958bf?

6-Internal Swap(Passed):

charity wallet:

https://testnet.bscscan.com/address/0x0f4a437cd77f8bd9f251bee1a31c7cca84382c51#internaltx

marketing wallet:

https://testnet.bscscan.com/address/0x029a03829f9c43a1052147 ec91aee6a03e7a9dd7#internaltx



MANUAL TESTING

NO ISSUES FOUND



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