

Smart Contract Audit

FOR

Listen Al

DATED: 23 FEB 23'



AUDIT SUMMARY

Project name - Listen Al

Date: 23 February, 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 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/token/0x1a69c72cbbdd cc78608af6c828ac09e4551032d7



Token Information

Token Name: ListenAl

Token Symbol: ListenAl

Decimals: 18

Token Supply: 100,000,000

Token Address:

0x3F3BCaA89030fa5729F0B992417C0aCDA053B1cd

Checksum:

7f4637c4c0993af2f6a3874de24406b78e17d63c560 bf5b3e6f76b0b4edc8fe0

Owner:

0xdd652278507d15e8e77d66ea7b1af926a942c2f0



TOKEN OVERVIEW

Fees:

Buy Fees: 0%

Sell Fees: 0%

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.

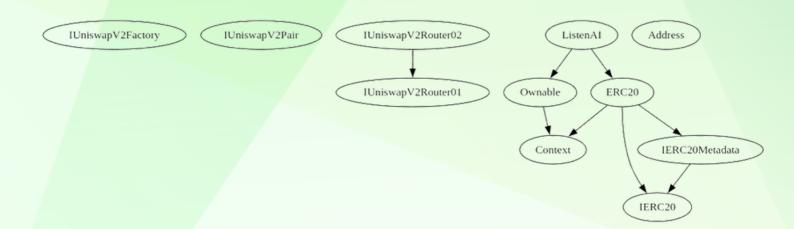
A vulnerability that has an informational character but is not affecting any of the code.

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/transfer taxes (0% static)
- 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}\mathbf{H}\mathbf{H}\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 | isContract | Internal 🦰 | | | | | |
| 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 🦰 | 🛑 | |
📙 | verifyCallResultFromTarget | 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 | | ( ) | 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 🦲 | 🧓 | |
```





STATIC ANALYSIS

```
Address_report(bytes_string) (contracts/Token.sole529-544) uses assembly

- Talk DM (contracts/Token.sole529-544) uses assembly

- Talk DM (contracts/Token.sole529-544) uses assembly

- Talk DM (contracts/Token.sole529-544) uses assembly

- Address_report(bytes_string) (contracts/Token.sole529-544) uses assembly

- Address_report(bytes_string) (contracts/Token.sole329-544) uses assembly usage

Address_functionCall(address_bytes) (contracts/Token.sole328-399) is never used and should be removed

Address_functionCall(address_bytes) (contracts/Token.sole328-399) is never used and should be removed

Address_functionCall(address_bytes) (contracts/Token.sole328-399) is never used and should be removed

Address_functionCall(address_bytes) (contracts/Token.sole328-349) is never used and should be removed

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Address_functionCall(address_bytes) (contracts/Token.sole328-349) is never used and should be removed

Address_functionCall(address_bytes_string) (contracts/Token.sole328-349) is never used and should be removed

Address_functionCall(address_bytes_string) (contracts/Token.sole328-349) is never used and should be removed

Address_functionCall(address_bytes_string) (contracts/Token.sole328-349) is never used and should be removed

Address_functionCall(address_bytes_string) (contracts/Token.sole328-329) is never used and should be removed

Address_functionCall(address_bytes_string) (contracts/Token.sole328-329) is never used and should be removed

Address_functionCall(address_bytes_string) (contracts/Token.sole328-329) is never used and should be removed

Address_functionCall(address_bytes_string) (contracts/Token.sole328-329) is never used and should be removed

Address_functionCall(address_bytes_string) (contracts/Token.sole328-329) is never used and should be removed

Address_functionCall(address_bytes_string) (cont
```

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/0x762015b4171eab19e467d09d29b 4ab6e5b347dfc4ce326145b0da1356a431f41

no issue were found on adding liquidity.

2- Buying (0% Tax) (Passed):

https://testnet.bscscan.com/tx/0x16c16382a56473194ceb9d21f94 5542c09d02696267ee841285c9262ff90504f

3- Selling (0% Tax) (Passed):

https://testnet.bscscan.com/tx/0x12242b377894dc057724b04306 0fb2bf9b27f70ac558ae7230001a85f296804b

4-Transferring (0% tax)(Passed):

https://testnet.bscscan.com/tx/0xbeca595119bf35e1e6d97be448d a82208d10dd1462ba0bfc80eff9b41c9766f285



MANUAL TESTING

NO ISSUES FOUND



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