

# Smart Contract Audit

**FOR** 

## Solana Inu

DATED: 13 November 23'



## **AUDIT SUMMARY**

Project name - Solana Inu

Date: 13 November 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	2	1
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/0x9197274ae3c74794fbdec24b326c68dd2c9820ed#code



## **Token Information**

#### **Token Address:**

0x9B699293561f7738eA9f8D1b95412E811d530547

Name: Solana Inu

Symbol: Solana

Decimals: 18

**Network:** Binance smart chain

Token Type: ERC20

Owner: 0xdd157AbfF1F2688f6020ED4cb83bee76F9911c66

Deployer: 0xdd157AbfF1F2688f6020ED4cb83bee76F9911c66

Token Supply: 100000

Checksum: 30b62c72cb68e6e74fc455033097b98b

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## **TOKEN OVERVIEW**

current taxes

Buy/sell 3%

Tranfer fee 0

**Max Taxes** 

**buy** 3%

sell 20%



## **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.

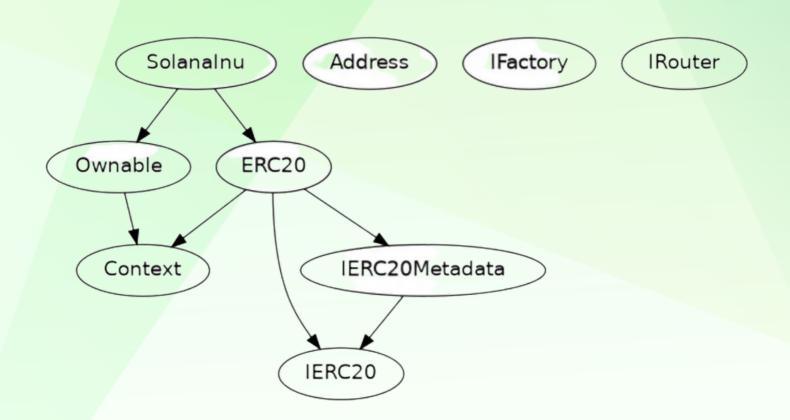
A vulnerability that has an informational character but is not affecting any of the code.

### **Findings**

Severity	Found
♦ Critical	0
♦ High-Risk	0
◆ Medium-Risk	0
♦ Low-Risk	2
<ul><li>Gas Optimization /</li><li>Suggestions</li></ul>	1



### **INHERITANCE TREE**





### **POINTS TO NOTE**

- Owner can renounce ownership.
- Owner can transfer ownership.
- Owner can update liquidityprovide.
- Owner can update liquiditytreshhold.
- Owner can enable trading.
- Owner can update deadline.
- Owner can update wallets.
- Owner update Exempt fees.



### **STATIC ANALYSIS**

```
Comparison of the Comparison o
```



### STATIC ANALYSIS

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- Approve (passed):

https://testnet.bscscan.com/tx/0x5bede0b31b5d0f63d9d5d7f6cf7f17e1a356122a96 93eac4acc1cf84553cd961

#### 2- Enable Trading (passed):

https://testnet.bscscan.com/tx/0x6deeab9fd8adcaeacb3b3d275182611e4a25fbb5e1 9441fc341b69f24b9894cb

#### 3- Bulk Exempt Fee (passed):

https://testnet.bscscan.com/tx/0x5c61433e8d189826d0cf1b09ead70ac638757c316f b8f0c712687351dcc304e1

#### 4- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0xa3296f53a648751d05c178e6f9b6a2b8c4e6ff3e97e9afa2cc8fc04aaad00bdb

#### 5- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0xdcbde039b4082bf1351d3b32b00d392393839923f 7e3a8f481506a4bf4f486bf

#### 6- Transfer (passed):

https://testnet.bscscan.com/tx/0x46fe76a0435c619ef3b312d77154500ceb45d7588 34276325c07c787c1cf1539

#### 7- Transfer Ownership (passed):

https://testnet.bscscan.com/tx/0xe309c1d8bb41844f8146ae8214421490e85f00b92 5eff5f9d91bb50f51df1f40



Severity: Low

subject: floating Pragma Solidity version

Status: Open

#### Overview:

It is considered best practice to pick one compiler version and stick with it. With a floating pragma, contracts may accidentally be deployed using an outdated.

pragma solidity ^0.8.19;

### Suggestion

Adding the latest constant version of solidity is recommended, as this prevents the unintentional deployment of a contract with an outdated compiler that contains unresolved bugs.



Severity: Low

subject: Missing Events

Status: Open

#### Overview:

They serve as a mechanism for emitting and recording data onto the blockchain, making it transparent and easily accessible.

require(!tradingEnabled, "Cannot re-enable trading");

function EnableTrading() external onlyOwner {

```
tradingEnabled = true;
  providingLiquidity = true;
  genesis_block = block.number;
}

function updatedeadline(uint256 _deadline) external
onlyOwner {
  require(!tradingEnabled, "Dev Can't change when trading
has started");
  require(_deadline < 5, "Deadline should be less than 5
Blocks");
  deadline = _deadline;
}</pre>
```



```
function updateDevWallet(address newWallet) external
onlyOwner {
  require(newWallet != address(0), "Fee Address cannot be 0
  address");
  devWallet = newWallet;
}

function transferOwnership(address newOwner) public
virtual onlyOwner {
  require(
  newOwner != address(0),
  "Ownable: new owner is the zero address"
);
  _setOwner(newOwner);
}
```

### Suggestion:

Events are important and should be emitted for tracking this off-chain for all important functions.



Severity: Suggestion/Informational

subject: Wrong Naming Convention

Status: Open

#### Overview:

Wrong naming convention. Private Functions' name should start with '\_'

```
function Liquify(
    uint256 feeswap,
    Taxes memory swapTaxesS
) private lockTheSwap {
    if (feeswap == 0) {
       return;
    }
```

### Suggestion:

It is recommended that Clear and consistent naming conventions are essential for writing clean code. They improve code readability and help developers understand the purpose and functionality of variables, functions, and contracts.



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