



# Smart Contract Audit

FOR  
**Smile AI**

DATED : 27 September 23'



# AUDIT SUMMARY

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**Project name** – Smile AI

**Date:** 27 September 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

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# USED TOOLS

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## Tools:

### 1.Code Comparison:

We used specialized tools to perform a line-by-line comparison between the project's code and that of Uniswap V2 to identify any differences.

### 2.Differential Analysis:

Our audit team conducted a thorough review of the differentials to assess whether they introduce any security vulnerabilities or logical errors.

### 3.Additional Modules:

Any additional smart contracts, not part of the original Uniswap V2, were audited as separate entities, following our standard auditing procedures.

### 4. Testnet version:

<https://testnet.bscscan.com/address/0x7527ab30BFfa9116Fb2A2Ca6F0B0302E8D6C6abE>

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# Token Information

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**Token Address :**

0xEbA6a22bA57994b6600671EC9EC8389272CBE71d

**Name:** Smile AI

**Symbol:** SMILE

**Decimals:** 18

**Network:** Binance smart chain

**Token Type:** BEP20

**Owner:** not ownable

**Deployer:**

0xBDac99b51d87054C87Fb62A643715bDe699AFc1d

**Token Supply:** 123,123,123,123,123

**Checksum:**

6fa745fd63d60cb021bcd65dc849ebf8c7ac455

**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/0x7527ab30BFfa9116Fb2A2Ca6F0B0302E8D6C6abE>**

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# TOKEN OVERVIEW

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**buy fee:** 0%

**Sell fee:** 0%

**transfer fee:** 0%

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**Fee Privilege:** no fees

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**Ownership:** Owned

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**Minting:** None

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**Max Tx:** No

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**Blacklist:** No

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**Other Privileges:**

- Initial distribution of the tokens

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# AUDIT METHODOLOGY

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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 is exercised 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.
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# VULNERABILITY CHECKLIST

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

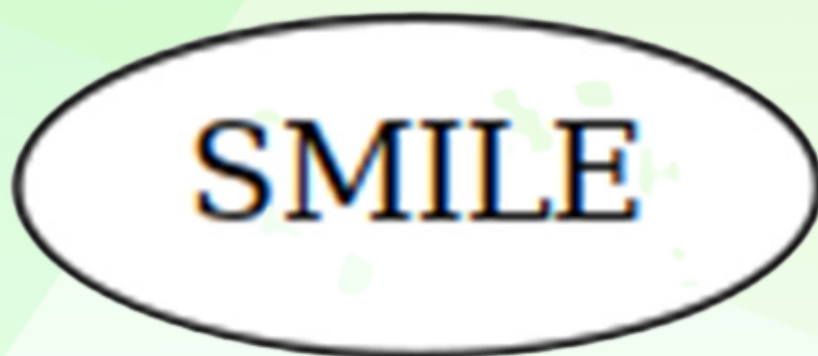
#### ◆ Gas Optimization / Suggestions

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# INHERITANCE TREE

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# POINTS TO NOTE

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- Contract does not support buy/sell/transfer fees
  - Contract does not support blacklisting an arbitrary wallet
  - Contract does not support disabling/enabling trades
  - Contract does not support minting new tokens
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# STATIC ANALYSIS

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```
INFO:Detectors:
Pragma version^0.8.17 (contracts/Token.sol#6) allows old versions
solc-0.8.17 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
INFO:Detectors:
SMILE.decimals (contracts/Token.sol#11) should be constant
SMILE.name (contracts/Token.sol#9) should be constant
SMILE.symbol (contracts/Token.sol#10) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant
INFO:Detectors:
SMILE.totalSupply (contracts/Token.sol#12) should be immutable
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
INFO:Slither:./contracts/Token.sol analyzed (1 contracts with 88 detectors), 6 result(s) found
```

**Result => A static analysis of contract's source code has been performed using slither,  
No major issues were found in the output**

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# CONTRACT ASSESMENT

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
└─ **Function Name**   **Visibility**   **Mutability**   **Modifiers**					
**SMILE**   Implementation					
└─   <Constructor>   Public !   ●   NO !					
└─   transfer   Public !   ●   NO !					
└─   approve   Public !   ●   NO !					
└─   transferFrom   Public !   ●   NO !					

### ### Legend

Symbol	Meaning
:-----: -----:	
●	Function can modify state
🏠	Function is payable



# FUNCTIONAL TESTING

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## 1- Adding liquidity (**passed**):

<https://testnet.bscscan.com/tx/0x2df4d484e51709541017972eb2128502ef63526ad09269804bb7b465ffe2af21>

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

<https://testnet.bscscan.com/tx/0x9445c4ce2c66f0a5a29a22bb81d1aeb3beacfef869eaea34895aeb2e49621984>

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

<https://testnet.bscscan.com/tx/0x2412dd16bcce5767d14802598b0776ecb39fb0e20755b02b44187594358bcc3f>

## 4- Transferring (0% tax) (**passed**):

<https://testnet.bscscan.com/tx/0x97cfbe8fd9501a3b6bf7d176f0ad135e80b62f208747687ec13f25f86e2af5c1>

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# ABOUT AUDITACE

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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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