

# Smart Contract Audit

FOR

## YourTrump

DATED : 27 Nov 24'



## **AUDIT SUMMARY**

Project name – YourTrump

Date: 27 Nov, 2024

**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	1	1	2
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://sepolia.etherscan.io/address/0x1bc8b8432e727 38f51f898e847b425d108c77fae#code



## **Token Information**

**Token Address: -**

Name: YourTrump

Symbol: -

**Decimals:** -

Network: -

Token Type: ERC-20

Owner: -

**Deployer:** --

Token Supply: -

Checksum: Ee052c616934aeb47e6039f76b20d213

#### Testnet:

https://sepolia.etherscan.io/address/0x1bc8b8432e72738f51f 898e847b425d108c77fae#code



# **TOKEN OVERVIEW**

**Buy Fee:** 0-0%

**Sell Fee:** 0-0%

Transfer Fee: 0-0%

Fee Privilege: Owner

Ownership: Owned

Minting: None

Max Tx: No

Blacklist: No

**Other Privileges:** 



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**





### **POINTS TO NOTE**

- The owner can update user round data.
- The owner can set distribution wallets.
- The owner can set the token price.
- The owner can start and end round.
- The owner can withdraw ETH/TOKENS/USDT
- The owner can set Token/USDT/PriceFeed.

## **STATIC ANALYSIS**

INFO:Detectors:	for the first for the second
- dynamicBonus = (fi	(uint256) (TokenPresale.sol#308-322) performs a multiplication on the result of a division: inalRoundBonus * (tokenForSale() - totalTokensSold)) / tokenForSale() (TokenPresale.sol#316-317)
<ul> <li>(tokens * dynamic)</li> </ul>	Bonus) / 100 (TokenPresale.sol#318)
	256,uint256) (TokenPresale.sol#324-342) performs a multiplication on the result of a division: inalRoundBonus * (tokenForSale() - totalTokensSold)) / tokenForSale() (TokenPresale.sol#336-337)
- (tokens * dynamics	Bonus) / 100 (TokenPresale.sol#338)
TokenPresale.usdtToToken(uir	nt256) (TokenPresale.sol#344-348) performs a multiplication on the result of a division: mount * tokenPrice) / (10000000000000000000) (TokenPresale.sol#345)
- totalTokens = (_an - tokens = (totalTok	mount * tokenPrice) / (1000000000000000000) (TokenPresale.sol#345) kens * (10 ** token.decimals())) / (100000000000000000) (TokenPresale.sol#346)
TokenPresale.ethToToken(uint	t256) (TokenPresale.sol#350-355) performs a multiplication on the result of a division:
– ethToUsd = (_amour _ sumbarOfTokans = (	nt * getLatestPriceETH()) / (1000000000000000000) (TokenPresale.sol#351) (ethToUsd * tokenPrice) / 100000000000000000 (TokenPresale.sol#352)
okenPresale.ethToToken(uint	<pre>(ethToUsd * tokenPrice) / 10000000000000000 (TokenPresale.sol#352)</pre>
	fTokens * (10 ** token.decimals())) / 1e8 (TokenPresale.sol#353) om/crytic/slither/wiki/Detector-Documentation#divide-before-multiply
NGO Debeshama	
NFO:Detectors: okenPresale.setDistribution	Mallets(address[]) (TokenPresale.sol#399-412) should emit an event for:
<ul> <li>numberOfMalletsToD</li> </ul>	Distribute = wallets.length (TokenPresale.sol#411)
	<pre>int256) (TokenPresale.sol#414-416) should emit an event for: Price (TokenPresale.sol#415)</pre>
	m/crytic/slither/wiki/Detector-Documentation#missing-events-arithmetic
INFO:Detectors:	
	TokenPresale.Rounds) (TokenPresale.sol#287-305) compares to a boolean constant:
	ing)(roundStatus[_round] == true,Round not ended yet) (TokenPresale.sol#288)
	enPresale.Rounds) (TokenPresale.sol#419-422) compares to a boolean constant: ing)(roundStatus[_round] == false.Round already ended) (TokenPresale.sol#420)
	okenPresale.Rounds) (TokenPresale.sol#425-428) compares to a boolean constant:
-require(bool,str	<pre>ing)(roundStatus[_round] == true,Round is still active) (TokenPresale.sol#426)</pre>
	.com/crytic/slither/wiki/Detector-Documentation#boolean-equality
INFO:Detectors:	gth() (TokenPresale.sol#24-26) is never used and should be removed
	Presale.sol#20-22) is never used and should be removed
Reference: https://github	.com/crytic/slither/wiki/Detector-Documentation#dead-code
INFO:Detectors:	
- VerbatimInvalid	0 contains known severe issues (https://solidity.readthedocs.io/en/latest/bugs.html) Deduplication
	spressionSplitArgumentEvaluationOrder
	ctsOnSelectorAccess.
(t is used by: - ^0.8.20 (TokenP)	
	.com/crvtic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
NFO:Detectors:	
okenPresale.claimTokens(	TokenPresale.Rounds) (TokenPresale.sol#287-305) compares to a boolean constant:
<pre>-require(bool,str;</pre>	ing)(roundStatus[_round] == true,Round not ended yet) (TokenPresale.sol#288)
	enPresale.Rounds) (TokenPresale.sol#419-422) compares to a boolean constant:
okenPresale.startRound(T	<pre>ing)(roundStatus[_round] == false,Round already ended) (TokenPresale.sol#420) okenPresale.Rounds) (TokenPresale.sol#425-428) compares to a boolean constant:</pre>
	<pre>ing)(roundStatus[_round] == true,Round is still active) (TokenPresale.sol##26)</pre>
	.com/crytic/slither/wiki/Detector-Documentation#boolean-equality
NFO:Detectors:	gth() (TokenPresale.sol#24-26) is never used and should be removed
	gtn() (TokenPresale.sol#24-26) is never used and should be removed Presale.sol#20-22) is never used and should be removed
	.com/crytic/slither/wiki/Detector-Documentation#dead-code
NFO:Detectors:	
	0 contains known severe issues (https://solidity.readthedocs.io/en/latest/bugs.html)
<ul> <li>VerbatimInvalid</li> <li>FullInlinerNonE</li> </ul>	Deduplication xpressionSplitArgumentEvaluationOrder
	ctsOnSelectorAccess.
It is used by:	
- *0.8.20 (TokenP)	resale.sol#3) .com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
	Report were released and the rest of the r



## **STATIC ANALYSIS**

INF0:Detec	
	TokenPresale.claimTokens(TokenPresale.Rounds)round (TokenPresale.sol#287) is not in mixedCase
	TokenPresale.usdtToToken(uint256)amount (TokenPresale.sol#344) is not in mixedCase
	TokenPresale.ethToToken(uint256)amount (TokenPresale.sol#350) is not in mixedCase
	TokenPresale.setTokenPrice(uint256)nemPrice (TokenPresale.sol#414) is not in mixedCase
	TokenPresale.endRound(TokenPresale.Rounds)round (TokenPresale.sol#419) is not in mixedCase
	TokenPresale.startRound(TokenPresale.Rounds)round (TokenPresale.sol#425) is not in mixedCase
Parameter	TokenPresale.withdrawTokens(address,uint256)tokenAddress (TokenPresale.sol#446) is not in mixedCase
Parameter	TokenPresale.withdrawTokens(address,uint256)amount (TokenPresale.sol#446) is not in mixedCase
Parameter	TokenPresale.setToken(address)token (TokenPresale.sol#459) is not in mixedCase
	TokenPresale.setUSDT(address)usdt (TokenPresale.sol#465) is not in mixedCase
Parameter	TokenPresale.setPriceFeed(address)priceFeed (TokenPresale.sol#471) is not in mixedCase
/ariable T	<pre>fokenPresale.USDT (TokenPresale.sol#161) is not in mixedCase</pre>
/ariable T	TokenPresale.ETHRaised (TokenPresale.sol#178) is not in mixedCase
/ariable T	<pre>TokenPresale.USDTRaised (TokenPresale.sol#179) is not in mixedCase</pre>
Reference:	https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

INFO:Detectors:
TokenPresale.finalRoundBonus (TokenPresale.sol#187) should be constant
TokenPresale.round18onus (TokenPresale.sol#184) should be constant
TokenPresale.round2Bonus (TokenPresale.sol#185) should be constant
TokenPresale.round3Bonus (TokenPresale.sol#186) should be constant
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant
INFO:Slither:TokenPresale.sol analyzed (5 contracts with 94 detectors), 47 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



# **FUNCTIONAL TESTING**

#### 1- Set Distribution Wallets (passed):

https://sepolia.etherscan.io/tx/0x20cf6a87b747b3c8f5c9f8b7898db991f154 d078f0d49e064262367ba7286db8

# **CLASSIFICATION OF RISK**

auditace.tech

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 Optimizatio	<b>n</b> A vulnerability that has an informational character but is not
/Suggestion	affecting any of the code.

## Findings

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



### Centralization – Missing Require Check. Severity: Medium Function: setDistributionWallets Status: Open

#### **Overview:**

The owner can set any arbitrary address excluding zero address as this is not recommended because if the owner will set the address to the contract address, then the Eth will not be sent to that address and the transaction will fail and this will lead to a potential honeypot in the contract.

```
function setDistributionWallets(address[] memory wallets) //@audit
//Missing require check
    external
    onlyOwner
{
    require(wallets.length > 0, "Must provide at least one wallet");
    delete distributionWallets;
    for (uint256 i = 0; i < wallets.length; i++) {
    distributionWallets.push(wallets[i]);
    }
}
```

numberOfWalletsToDistribute = wallets.length;

}

**Suggestion:** It is recommended that the address should not be able to set as a contract address.



### Centralization – Missing Events 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.

```
function setDistributionWallets(address[] memory wallets) //@audit
//Missing require check
```

external onlyOwner

```
{
```

require(wallets.length > 0, "Must provide at least one wallet");

```
delete distributionWallets;
```

```
for (uint256 i = 0; i < wallets.length; i++) {
distributionWallets.push(wallets[i]);</pre>
```

}

```
numberOfWalletsToDistribute = wallets.length;
```

```
}
```

```
function setTokenPrice(uint256 _newPrice) external onlyOwner {
    tokenPrice = _newPrice;
```

```
}
```

```
// End a presale round
```

```
function endRound(Rounds _round) external onlyOwner {
    require(roundStatus[_round] == false, "Round already ended");
    roundStatus[_round] = true;
```

}



```
// Start a presale round
function startRound(Rounds _round) external onlyOwner {
    <mark>require(round</mark>Status[_round] == true, "Round is still active");
    <mark>roundStatus</mark>[_round] = false;
}
function setToken(address _token) external onlyOwner {
    <mark>requi</mark>re(_token != address(0), "Invalid address");
    token = IToken(_token);
}
// Function to set the USDT address
function setUSDT(address _usdt) external onlyOwner {
    require(_usdt != address(0), "Invalid address");
    USDT = IToken(_usdt);
}
// Function to set the price feed address
function setPriceFeed(address _priceFeed) external onlyOwner {
    require(_priceFeed != address(0), "Invalid address");
    priceFeedeth = AggregatorV3Interface(_priceFeed);
}
}
function withdrawETH() external onlyOwner {
payable(owner()).transfer(address(this).balance);
}
// Withdraw USDT by owner
function withdrawUSDT() external onlyOwner {
    uint256 contractBalance = USDT.balanceOf(address(this));
    require(contractBalance > 0, "No USDT balance to withdraw");
    require(
       USDT.transfer(owner(), contractBalance),
       "USDT withdrawal failed"
    );
}
```





### Optimization

### Severity: Informational Subject: Floating Pragma. 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 <a>^0.8.20</a>;

#### 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.



### Optimization

### Severity: Optimization Subject: Remove unused code. Status: Open

#### **Overview**:

Unused variables are allowed in Solidity, and they do. not pose a direct security issue. It is the best practice. though to avoid them.

function \_msgData() internal view virtual returns (bytes calldata) { return msg.data; }

function \_contextSuffixLength() internal view virtual returns (uint256) {
return 0;

}



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