



# Smart Contract Audit

FOR  
**DADA**

**DATED : 24 Jan, 2024**



# MANUAL TESTING

## Centralization – Enabling Trades

**Severity:** High

**Function:** startTrade

**Status:** Open

### Overview:

The **startTrade** function permits only the contract owner to activate trading capabilities. Until this function is executed, no investors can buy, sell, or transfer their tokens. This places a high degree of control and centralization in the hands of the contract owner.

```
function startTrade() external onlyOwner {  
    require(0 == startTradeBlock, "trading");  
    startTradeBlock = block.number;  
}
```

### Suggestion:

To reduce centralization and potential manipulation, consider one of the following approaches:

1. Automatically enable trading after a specified condition, such as the completion of a presale, is met.
2. If manual activation is still desired, consider transferring the ownership of the contract to a trustworthy, third-party entity like a certified "PinkSale Safu" developer. This can provide investors with more confidence in the eventual activation of trading capabilities, mitigating concerns of potential bad-faith actions by the original owner.



# MANUAL TESTING

**Centralization** – The owner can lock the token  
**Severity:** **High**

**Function:** **setLimitAmount**, **setTxLimitAmount**,  
**setHolderRewardCondition** and **SetHolderCondition**.

**Status:** **Open**

**Overview:**

In this **setLimitAmount**, **setTxLimitAmount**,  
**setHolderRewardCondition** and **SetHolderCondition**.

```
function setLimitAmount(uint256 amount) external onlyOwner {
    _limitAmount = amount * 10 ** _decimals;
}
function setTxLimitAmount(uint256 amount) external onlyOwner {
    _txLimitAmount = amount * 10 ** _decimals;
}
function setMinTotal(uint256 total) external onlyOwner {
    _minTotal = total * 10 ** _decimals;
}
function setHolderRewardCondition(uint256 amount) external onlyOwner {
    holderRewardCondition = amount;
}
function setHolderCondition(uint256 amount) external onlyOwner {
    holderCondition = amount;
}
```

**Suggestion:**

It is recommended that there be a required check for zero address.



# MANUAL TESTING

**Centralization – Buy, Sell and Transfer Fees**

**Severity: High**

**Function: setBuyFee, setSellFee and setTransferFee**

**Status: Open**

**Overview:**

The owner can set the buy and sell fees up to 100%, which is not recommended.

```
function setBuyFee(
    uint256 buyDestroyFee, uint256 buyFundFee, uint256 buyRewardFee,
    uint256 lpDividendFee, uint256 lpFee
) external onlyOwner {
    _buyDestroyFee = buyDestroyFee;
    _buyFundFee = buyFundFee;
    _buyRewardFee = buyRewardFee;
    _buyLPDividendFee = lpDividendFee;
    _buyLPFee = lpFee;
}
function setSellFee(
    uint256 sellDestroyFee, uint256 sellFundFee, uint256 sellRewardFee,
    uint256 lpDividendFee, uint256 lpFee
) external onlyOwner {
    _sellDestroyFee = sellDestroyFee;
    _sellFundFee = sellFundFee;
    _sellRewardFee = sellRewardFee;
    _sellLPDividendFee = lpDividendFee;
    _sellLPFee = lpFee;
}
function setTransferFee(uint256 fee) external onlyOwner {
    _transferFee = fee;
}
```

**Suggestion:**

It is recommended that no fees in the contract should be more than 25% of the contract.



# Centralization – Lp, Add and Remove LPFees.

**Severity:** High

**Function:** setLPFeeReceiver, setAddLPFee and setRemoveLPFee

**Status:** Open

**Overview:**

The owner can set the buy and sell fees up to 100%, which is not recommended.

```
function setLPFeeReceiver(address adr) external onlyOwner {
    _lpFeeReceiver = adr;
    _feeWhiteList[adr] = true;
}
function setAddLPFee(uint256 fee) external onlyOwner {
    _addLPFee = fee;
}
function setRemoveLPFee(uint256 fee) external onlyOwner {
    _removeLPFee = fee;
}
```

**Suggestion:**

It is recommended that no fees in the contract should be more than 25% of the contract.



# AUDIT SUMMARY

**Project name - DADA**

**Date:** 24 Jan, 2024

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

**Audit Status: High Risk Major Flag**

## Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	4	0	3	1
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



# USED TOOLS

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## 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/0xf4c423970847161454078c545f97c0c3be7f33a8#code>

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# Token Information

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**Token Name :** DADA

**Token Symbol:** DADA

**Decimals:** 9

**Token Supply:** 420690000000000000000000

**Network:** Binance Smart Chain

**Token Type:** BEP-20

**Token Address:**

0x490bE8605051c4876e4A94910a941e3549801D74

**Checksum:**

AEd641126e217b2b455d49e77fc41223

**Owner:**

0x08b52556eF45eD6E5F43e7e1D61A9C62592E11ed  
(at time of writing the audit)

**Deployer:**

0x08b52556eF45eD6E5F43e7e1D61A9C62592E11ed

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# TOKEN OVERVIEW

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**Fees:**

**Buy Fee: 40-100% (High)**

**Sell Fee: 40-100% (High)**

**Transfer Fee: 100% (High)**

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**Fees Privilege:** Owner

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**Ownership:** Owned

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**Minting:** No

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**Max Tx Amount/ Max Wallet Amount:** Yes

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**Blacklist:** No

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**Other Privileges:**

- Whitelist to transfer without enabling trades
  - Enabling trades
-



# 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.

# VULNERABILITY CHECKLIST



Return values of low-level calls



**Gasless Send**



Private modifier



Using block.timestamp



Multiple Sends



Re-entrancy



Using Suicide



Tautology or contradiction



Gas Limit and 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



# STATIC ANALYSIS

A static analysis of the code was performed using Slither.

No issues were found.

```
INFO:Detectors:
AbsToken.swapTokenForFund(uint256) (DADA.sol#504-551) uses arbitrary from in transferFrom: USDT.transferFrom(tokenDistributor,address(this),usdtBalance) (DADA.sol#533)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#arbitrary-from-in-transferfrom
INFO:Detectors:
AbsToken.swapTokenForFund(uint256) (DADA.sol#504-551) ignores return value by USDT.transferFrom(tokenDistributor,address(this),usdtBalance) (DADA.sol#533)
AbsToken.swapTokenForFund(uint256) (DADA.sol#504-551) ignores return value by USDT.transfer(fundAddress,fundUsdt) (DADA.sol#537)
AbsToken.swapTokenForFund(uint256) (DADA.sol#504-551) ignores return value by USDT.transfer(rewardAddress,fundUsdt2) (DADA.sol#542)
AbsToken.claimToken(address,uint256) (DADA.sol#678-674) ignores return value by IERC20(token).transfer(fundAddress,amount) (DADA.sol#672)
AbsToken.processReward(uint256) (DADA.sol#718-769) ignores return value by usdt.transfer(shareHolder,amount) (DADA.sol#758)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unchecked-transfer
INFO:Detectors:
AbsToken._tokenTransfer(address,address,uint256,bool,bool,bool) (DADA.sol#410-502) performs a multiplication on the result of a division:
- feeAmount = tAmount * _transferFee / 10000 (DADA.sol#486)
- swapAmount = 2 * feeAmount (DADA.sol#490)
AbsToken._tokenTransfer(address,address,uint256,bool,bool,bool) (DADA.sol#410-502) performs a multiplication on the result of a division:
- fundAmount_scope_4 = tAmount * (_sellFundFee + _sellRewardFee + _sellLPDividendFee + _sellLPFee) / 10000 (DADA.sol#469)
- numTokensSellToFund = fundAmount_scope_4 * 238 / 100 (DADA.sol#477)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#divide-before-multiply
INFO:Detectors:
Reentrancy in AbsToken._tokenTransfer(address,address,uint256,bool,bool,bool) (DADA.sol#410-502):
    External calls:
    - _tokenTransfer(tokenDistributor,address(this),swapAmount,false,false,false) (DADA.sol#495)
        - _swapRouter.swapExactTokensForTokensSupportingFeeOnTransferTokens(tokenAmount,0,path,fundAddress,block.timestamp) (DADA.sol#561-567)
        - _swapRouter.swapExactTokensForTokensSupportingFeeOnTransferTokens(tokenAmount = lpAmount,0,path,tokenDistributor,block.timestamp) (DADA.sol#523-529)
            - USDT.transferFrom(tokenDistributor,address(this),usdtBalance) (DADA.sol#533)
            - USDT.transfer(fundAddress,fundUsdt) (DADA.sol#537)
            - USDT.transfer(rewardAddress,fundUsdt2) (DADA.sol#542)
            - _swapRouter.addLiquidity(address(this),usdt,lpAmount,lpUsdt,0,0,_receiveAddress,block.timestamp) (DADA.sol#547-549)
    - swapTokenForFund2(swapAmount) (DADA.sol#496)
        - _swapRouter.swapExactTokensForTokensSupportingFeeOnTransferTokens(tokenAmount,0,path,fundAddress,block.timestamp) (DADA.sol#561-567)
State variables written after the call(s):
- swapTokenForFund2(swapAmount) (DADA.sol#496)
    - inSwap = true (DADA.sol#168)
    - inSwap = false (DADA.sol#170)
AbsToken.inSwap (DADA.sol#126) can be used in cross function reentrancies:
- AbsToken._tokenTransfer(address,address,uint256,bool,bool,bool) (DADA.sol#410-502)
- AbsToken.lockTheSwap() (DADA.sol#167-171)
```

```
INFO:Detectors:
AbsToken._transfer(address,address,uint256).takeFee (DADA.sol#287) is a local variable never initialized
AbsToken._transfer(address,address,uint256).isAddLP (DADA.sol#311) is a local variable never initialized
AbsToken._tokenTransfer(address,address,uint256,bool,bool,bool).maxDestroyAmount_scope_3 (DADA.sol#457) is a local variable never initialized
AbsToken._tokenTransfer(address,address,uint256,bool,bool,bool).feeAmount (DADA.sol#419) is a local variable never initialized
AbsToken._tokenTransfer(address,address,uint256,bool,bool,bool).maxDestroyAmount (DADA.sol#433) is a local variable never initialized
AbsToken._transfer(address,address,uint256).isRemoveLP (DADA.sol#312) is a local variable never initialized
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#uninitialized-local-variables
INFO:Detectors:
TokenDistributor.constructor(address) (DADA.sol#100-102) ignores return value by IERC20(token).approve(msg.sender,uint256(~ uint256(0))) (DADA.sol#101)
AbsToken.constructor(address,address,string,uint8,uint256,address,address,uint256,uint256,uint256) (DADA.sol#173-229) ignores return value by IERC20(usdt).approve(address(_swapRouter),MAX) (DADA.sol#185)
AbsToken._isAddLiquidity(uint256) (DADA.sol#357-378) ignores return value by (r0,r1) = mainPair.getReserves() (DADA.sol#359)
AbsToken._isRemoveLiquidity() (DADA.sol#380-394) ignores return value by (r0,r1) = mainPair.getReserves() (DADA.sol#382)
AbsToken.swapTokenForFund(uint256) (DADA.sol#504-551) ignores return value by _swapRouter.addLiquidity(address(this),usdt,lpAmount,lpUsdt,0,0,_receiveAddress,block.timestamp) (DADA.sol#547-549)
AbsToken.getokenPrice() (DADA.sol#808-824) ignores return value by (reserve0,reserve1) = swapPair.getReserves() (DADA.sol#810)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#unused-return
INFO:Detectors:
AbsToken.allowance(address,address).owner (DADA.sol#257) shadows:
    - Ownable.owner() (DADA.sol#78-80) (function)
AbsToken._approve(address,address,uint256).owner (DADA.sol#274) shadows:
    - Ownable.owner() (DADA.sol#78-80) (function)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
INFO:Detectors:
AbsToken.setFundAddress(address).addr (DADA.sol#579) lacks a zero-check on :
    - fundAddress = addr (DADA.sol#580)
AbsToken.setRewardAddress(address).addr (DADA.sol#584) lacks a zero-check on :
    - rewardAddress = addr (DADA.sol#585)
AbsToken.setReceiveAddress(address).addr (DADA.sol#589) lacks a zero-check on :
    - _receiveAddress = addr (DADA.sol#590)
AbsToken.setLPFeeReceiver(address).adr (DADA.sol#795) lacks a zero-check on :
    - _lpFeeReceiver = adr (DADA.sol#796)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-zero-address-validation
```



# STATIC ANALYSIS

A static analysis of the code was performed using Slither.  
No issues were found.

```
INFO:Detectors:  
AbsToken.addHolder(address) (DADA.sol#698-710) uses assembly  
- INLINE ASM (DADA.sol#702)  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#assembly-usage  
INFO:Detectors:  
AbsToken._transfer(address,address,uint256) (DADA.sol#279-355) has a high cyclomatic complexity (17).  
AbsToken._tokenTransfer(address,address,uint256,bool,bool,bool) (DADA.sol#410-502) has a high cyclomatic complexity (22).  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#cyclomatic-complexity  
INFO:Detectors:  
Variable AbsToken._rewardList (DADA.sol#117) is not in mixedCase  
Variable AbsToken._DADA (DADA.sol#118) is not in mixedCase  
Variable AbsToken._buyDestroyFee (DADA.sol#131) is not in mixedCase  
Variable AbsToken._buyFundFee (DADA.sol#132) is not in mixedCase  
Variable AbsToken._buyRewardFee (DADA.sol#133) is not in mixedCase  
Variable AbsToken._buyLPDividendFee (DADA.sol#134) is not in mixedCase  
Variable AbsToken._buyLPFee (DADA.sol#135) is not in mixedCase  
Variable AbsToken._sellDestroyFee (DADA.sol#137) is not in mixedCase  
Variable AbsToken._sellFundFee (DADA.sol#138) is not in mixedCase  
Variable AbsToken._sellRewardFee (DADA.sol#139) is not in mixedCase  
Variable AbsToken._sellLPDividendFee (DADA.sol#140) is not in mixedCase  
Variable AbsToken._sellLPFee (DADA.sol#141) is not in mixedCase  
Variable AbsToken._transferFee (DADA.sol#143) is not in mixedCase  
Variable AbsToken._mainPair (DADA.sol#149) is not in mixedCase  
Variable AbsToken._limitAmount (DADA.sol#151) is not in mixedCase  
Variable AbsToken._txLimitAmount (DADA.sol#152) is not in mixedCase  
Variable AbsToken._minTotal (DADA.sol#153) is not in mixedCase  
Variable AbsToken._receiveAddress (DADA.sol#155) is not in mixedCase  
Variable AbsToken._airdropLen (DADA.sol#158) is not in mixedCase  
Variable AbsToken._airdropAmount (DADA.sol#159) is not in mixedCase  
Variable AbsToken._removeLPFee (DADA.sol#161) is not in mixedCase  
Variable AbsToken._addLPFee (DADA.sol#162) is not in mixedCase  
Variable AbsToken._lpFeeReceiver (DADA.sol#163) is not in mixedCase  
Constant AbsToken._killBlock (DADA.sol#165) is not in UPPER_CASE_WITH_UNDERSCORES  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions
```

```
INFO:Detectors:  
Variable ISwapRouter.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (DADA.sol#46) is too similar to ISwapRoute  
r.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (DADA.sol#47)  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#variable-names-too-similar  
INFO:Detectors:  
AbsToken._transfer(address,address,uint256) (DADA.sol#279-355) uses literals with too many digits:  
- maxSellAmount = balance * 99999 / 100000 (DADA.sol#290)  
AbsToken._transfer(address,address,uint256) (DADA.sol#279-355) uses literals with too many digits:  
- processReward(500000) (DADA.sol#352)  
DADA.constructor() (DADA.sol#828-843) uses literals with too many digits:  
- AbsToken(address(0x10ED43C718714eb63d5aA57B78854784E256024E),address(0xbb4Cd89C8d36B01bD1cBaEBF2De08d9173bc095c),DADA,DADA,9,4206900000000000000,ad  
dress(0x8d0Id29524BD2c11deC7Bb144393cAb2d158Bb9b0),address(0x8d0Id29524BD2c11deC7Bb144393cAb2d158Bb9b0),address(0x08b52556eF45eD6E5F43e7e1D61A9C62592E11ed),42  
0690000000000000,0,420690000000000000) (DADA.sol#828-841)  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits  
INFO:Detectors:  
AbsToken._mainPair (DADA.sol#149) should be immutable  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable  
INFO:Slither:DADA.sol analyzed (8 contracts with 93 detectors), 64 result(s) found
```

# INHERITANCE TREE





# Ownership Privileges

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- The owner can transfer ownership.
- The owner can renounce ownership.
- The owner can set Fund/Reward/Receive addresses.
- The owner can set the Buy/Sell/Transfer fee to more than 100%.
- The owner can start trading.
- The owner whitelist addresses.
- The owner can start DADA.
- The owner can set the Reward list address.
- The owner can set a swap pair list address.
- The owner can set a limit amount.
- The owner can set the Tx limit amount.
- The owner can set the min total.
- The owner can set reward conditions.
- The owner can set holder conditions.
- The owner can exclude the holder's address.
- The owner can set the LPReceiver/AddLP/RemoveLP fee to more than 100%.



# Functional Tests

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## 1- Approve (passed):

<https://testnet.bscscan.com/tx/0xba78524e5271d24cf93b645918f869e6b643b751f3d4932c15dfadd159dcd256>

## 2- Set Buy Fee (passed):

<https://testnet.bscscan.com/tx/0xc16f95121fcb934169b7599dd7cfad2aa119ecd1a05d0493c84a5ed28b171073>

## 3- Set Sell Fee (passed):

<https://testnet.bscscan.com/tx/0xbef4352379175beccf3138b3dbeb3e73b12f5cd85f518d487dd5a629b00d1800>

## 4- Start Trade (passed):

<https://testnet.bscscan.com/tx/0x6ab3b406a1ac6bdb2fe886009d01a12366d3b4adda102d2fb403bd31942dd04f>

## 5- Set Transfer Fee (passed):

<https://testnet.bscscan.com/tx/0xc4d24264d970ed1992fe9c0818b26b0b47068504bc2255eabf5217d2cbd757c3>

# 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	4
◆ Medium-Risk	0
◆ Low-Risk	3
◆ Gas Optimization / Suggestions	1



# MANUAL TESTING

## Centralization – Enabling Trades

**Severity:** High

**Function:** startTrade

**Status:** Open

### Overview:

The **startTrade** function permits only the contract owner to activate trading capabilities. Until this function is executed, no investors can buy, sell, or transfer their tokens. This places a high degree of control and centralization in the hands of the contract owner.

```
function startTrade() external onlyOwner {  
    require(0 == startTradeBlock, "trading");  
    startTradeBlock = block.number;  
}
```

### Suggestion:

To reduce centralization and potential manipulation, consider one of the following approaches:

1. Automatically enable trading after a specified condition, such as the completion of a presale, is met.
2. If manual activation is still desired, consider transferring the ownership of the contract to a trustworthy, third-party entity like a certified "PinkSale Safu" developer. This can provide investors with more confidence in the eventual activation of trading capabilities, mitigating concerns of potential bad-faith actions by the original owner.



# MANUAL TESTING

**Centralization** – The owner can lock the token  
**Severity:** **High**

**Function:** **setLimitAmount**, **setTxLimitAmount**,  
**setHolderRewardCondition** and **SetHolderCondition**.

**Status:** **Open**

**Overview:**

In this **setLimitAmount**, **setTxLimitAmount**,  
**setHolderRewardCondition** and **SetHolderCondition**.

```
function setLimitAmount(uint256 amount) external onlyOwner {
    _limitAmount = amount * 10 ** _decimals;
}
function setTxLimitAmount(uint256 amount) external onlyOwner {
    _txLimitAmount = amount * 10 ** _decimals;
}
function setMinTotal(uint256 total) external onlyOwner {
    _minTotal = total * 10 ** _decimals;
}
function setHolderRewardCondition(uint256 amount) external onlyOwner {
    holderRewardCondition = amount;
}
function setHolderCondition(uint256 amount) external onlyOwner {
    holderCondition = amount;
}
```

**Suggestion:**

It is recommended that there be a required check for zero address.



# MANUAL TESTING

**Centralization – Buy, Sell and Transfer Fees**

**Severity: High**

**Function: setBuyFee, setSellFee and setTransferFee**

**Status: Open**

**Overview:**

The owner can set the buy and sell fees up to 100%, which is not recommended.

```
function setBuyFee(
    uint256 buyDestroyFee, uint256 buyFundFee, uint256 buyRewardFee,
    uint256 lpDividendFee, uint256 lpFee
) external onlyOwner {
    _buyDestroyFee = buyDestroyFee;
    _buyFundFee = buyFundFee;
    _buyRewardFee = buyRewardFee;
    _buyLPDividendFee = lpDividendFee;
    _buyLPFee = lpFee;
}
function setSellFee(
    uint256 sellDestroyFee, uint256 sellFundFee, uint256 sellRewardFee,
    uint256 lpDividendFee, uint256 lpFee
) external onlyOwner {
    _sellDestroyFee = sellDestroyFee;
    _sellFundFee = sellFundFee;
    _sellRewardFee = sellRewardFee;
    _sellLPDividendFee = lpDividendFee;
    _sellLPFee = lpFee;
}
function setTransferFee(uint256 fee) external onlyOwner {
    _transferFee = fee;
}
```

**Suggestion:**

It is recommended that no fees in the contract should be more than 25% of the contract.



# MANUAL TESTING

## Centralization – Lp, Add and Remove LPFees.

**Severity:** High

**Function:** setLPFeeReceiver, setAddLPFee and setRemoveLPFee

**Status:** Open

**Overview:**

The owner can set the buy and sell fees up to 100%, which is not recommended.

```
function setLPFeeReceiver(address adr) external onlyOwner {
    _lpFeeReceiver = adr;
    _feeWhiteList[adr] = true;
}
function setAddLPFee(uint256 fee) external onlyOwner {
    _addLPFee = fee;
}
function setRemoveLPFee(uint256 fee) external onlyOwner {
    _removeLPFee = fee;
}
```

**Suggestion:**

It is recommended that no fees in the contract should be more than 25% of the contract.



# MANUAL TESTING

## Centralization – Missing Events

**Severity:** Low

**Function:** 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 setFundAddress(address addr) external onlyOwner {
    fundAddress = addr;
    _feeWhiteList[addr] = true;
}
function setRewardAddress(address addr) external onlyOwner {
    rewardAddress = addr;
    _feeWhiteList[addr] = true;
}
function setReceiveAddress(address addr) external onlyOwner {
    _receiveAddress = addr;
    _feeWhiteList[addr] = true;
}
function setBuyFee(
    uint256 buyDestroyFee, uint256 buyFundFee, uint256 buyRewardFee,
    uint256 lpDividendFee, uint256 lpFee
) external onlyOwner {
    _buyDestroyFee = buyDestroyFee;
```



# MANUAL TESTING

```
_buyFundFee = buyFundFee;
_buyRewardFee = buyRewardFee;
_buyLPDividendFee = lpDividendFee;
_buyLPFee = lpFee;
}

function setSellFee(
    uint256 sellDestroyFee, uint256 sellFundFee, uint256 sellRewardFee,
    uint256 lpDividendFee, uint256 lpFee
) external onlyOwner {
    _sellDestroyFee = sellDestroyFee;
    _sellFundFee = sellFundFee;
    _sellRewardFee = sellRewardFee;
    _sellLPDividendFee = lpDividendFee;
    _sellLPFee = lpFee;
}

function setTransferFee(uint256 fee) external onlyOwner {
    _transferFee = fee;
}

function startDADA() external onlyOwner {
    require(0 == startDADABlock, "startDADA");
    startDADABlock = block.number;
}

function startTrade() external onlyOwner {
    require(0 == startTradeBlock, "trading");
    startTradeBlock = block.number;
}

function setDADA(address addr, bool enable) external onlyOwner {
    _DADA[addr] = enable;
}

function batchSetDADA(address [] memory addr, bool enable) external onlyOwner {
    for (uint i = 0; i < addr.length; i++) {
        _DADA[addr[i]] = enable;
    }
}

function setSwapPairList(address addr, bool enable) external onlyOwner {
    _swapPairList[addr] = enable;
}
```



# MANUAL TESTING

## Centralization – Missing Zero Address

**Severity:** Low

**Status:** Open

### Overview:

functions can take a zero address as a parameter (0x00000...). If a function parameter of address type is not properly validated by checking for zero addresses, there could be serious consequences for the contract's functionality.

```
function setFundAddress(address addr) external onlyOwner {
    fundAddress = addr;
    _feeWhiteList[addr] = true;
}
function setRewardAddress(address addr) external onlyOwner {
    rewardAddress = addr;
    _feeWhiteList[addr] = true;
}
function setReceiveAddress(address addr) external onlyOwner {
    _receiveAddress = addr;
    _feeWhiteList[addr] = true;
}
function setDADA(address addr, bool enable) external onlyOwner {
    _DADA[addr] = enable;
}
function setSwapPairList(address addr, bool enable) external onlyOwner {
    _swapPairList[addr] = enable;
}
```

### Suggestion:

It is suggested that the address should not be zero or dead.



# MANUAL TESTING

## Centralization – Local Variable Shadowing

**Severity:** Low

**Function:** \_approve and allowance

**Status:** Open

**Overview:**

```
function allowance(address owner, address spender) public view override returns  
(uint256) {  
    return _allowances[owner][spender];  
}  
function _approve(address owner, address spender, uint256 amount) private {  
    _allowances[owner][spender] = amount;  
    emit Approval(owner, spender, amount);  
}
```

**Suggestion:**

Rename the local variable that shadows another component



# MANUAL TESTING

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## Optimization

**Severity:** Informational

**Subject:** OldPragma Solidity version

**Status:** Open

### Overview:

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

```
pragma solidity ^0.8.18;
```



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# ABOUT AUDITACE

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We specialize 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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