

# SMART CONTRACT SECURITY AUDIT OF **APPLE DAO**



SMART CONTRACT AUDIT | SOLIDITY DEVELOPMENT & TESTING | PROJECT EVALUATION

RELENTLESSLY SECURING THE PUBLIC BLOCKCHAIN

# Audit Introduction

<b>Auditing Firm</b>	InterFi Network
<b>Audit Architecture</b>	InterFi Echelon Auditing Standard
<b>Language</b>	Solidity
<b>Client Firm</b>	Apple DAO
<b>Website</b>	<a href="https://www.appledao.app/">https://www.appledao.app/</a>
<b>Telegram Group</b>	<a href="https://t.me/Apple_DAO/">https://t.me/Apple_DAO/</a>
<b>Telegram Channel</b>	<a href="https://t.me/Apple_DAO_News/">https://t.me/Apple_DAO_News/</a>
<b>Twitter</b>	<a href="https://twitter.com/TheAppleDAO/">https://twitter.com/TheAppleDAO/</a>
<b>Instagram</b>	<a href="https://www.instagram.com/the_apple_dao/">https://www.instagram.com/the_apple_dao/</a>
<b>Report Date</b>	March 15, 2022

## Smart Contract Security Audit

### About Apple DAO

When we invest in a token, we expect to profit. Dropping prices are the enemy. That's why Apple DAO comes packaged with a multi-faceted approach to prevent those nasty drops. All while rewarding HOLDERS regularly.



# Audit Summary

InterFi team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks. According to the smart contract audit:

- ❖ Apple DAO's solidity source code has **LOW RISK SEVERITY**
- ❖ Apple DAO's smart contract has an **ACTIVE OWNERSHIP**
- ❖ Important owner privileges – **MANUAL & AUTO REBASE, MAX SELL LIMIT, SET FEES**
- ❖ Apple DAO's smart contract owner has multiple "Write Contract" privileges. Centralization risk correlated to the active owner is **HIGH**
- ❖ Apple DAO's smart contract utilizes **REBASE**. With rebase, the circulating token supply adjusts (increases or decreases) automatically or manually according to set parameters

Be aware that smart contracts deployed on the blockchain aren't resistant to internal exploit, external vulnerability, or hack. For a detailed understanding of risk severity, source code vulnerability, functional hack, and audit disclaimer, kindly refer to the audit.

🔑 Token Contract address: **0xfA906F474e8276bc46c831111A8DD866C50C8638**

🔗 Blockchain: **Binance Smart Chain**

✅ Verify the authenticity of this report on InterFi's GitHub: <https://github.com/interfinetwork>



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# Audit Scope

InterFi was consulted by Apple DAO to conduct the smart contract security audit of their solidity source code. The audit scope of work is strictly limited to the mentioned solidity file(s) only:

❖ AppleDAO.sol

## **Solidity Source Code On Blockchain (Verified Contract Source Code)**

<https://bscscan.com/address/0xfA906F474e8276bc46c831111A8DD866C50C8638#code>

Contract Name: AppleDAO

Compiler Version: v0.7.4

Optimization Enabled: Yes with 200 runs

## **Solidity Source Code On InterFi GitHub**

<https://github.com/interfinetwork/audited-codes/blob/main/AppleDAO.sol>

## **SHA-1 Hash**

Solidity source code is audited at hash #e627ce4a6383d039e2a158c8457595a8e26c6905



# Audit Methodology

The scope of this report is to audit the smart contract source code of Apple DAO. InterFi has scanned the contract and reviewed the project for common vulnerabilities, exploits, hacks, and back-doors.

Below is the list of commonly known smart contract vulnerabilities, exploits, and hacks:

## Category

---

### Smart Contract Vulnerabilities

- ❖ Re-entrancy
- ❖ Unhandled Exceptions
- ❖ Transaction Order Dependency
- ❖ Integer Overflow
- ❖ Unrestricted Action
- ❖ Incorrect Inheritance Order
- ❖ Typographical Errors

### Requirement Violation

- ❖ Ownership Takeover
- ❖ Gas Limit and Loops

### Source Code Review

- ❖ Deployment Consistency
- ❖ Repository Consistency
- ❖ Data Consistency
- ❖ Token Supply Manipulation

### Functional Assessment

- ❖ Access Control and Authorization
- ❖ Operations Trail and Event Generation
- ❖ Assets Manipulation
- ❖ Liquidity Access



## **InterFi's Echelon Audit Standard**

The aim of InterFi's "Echelon" standard is to analyze the smart contract and identify the vulnerabilities and the hacks in the smart contract. Mentioned are the steps used by ECHELON-1 to assess the smart contract:

1. Solidity smart contract source code reviewal:
  - ❖ Review of the specifications, sources, and instructions provided to InterFi to make sure we understand the size, scope, and functionality of the smart contract.
  - ❖ Manual review of code, which is the process of reading source code line-by-line to identify potential vulnerabilities.
2. Static, Manual, and Software analysis:
  - ❖ Test coverage analysis is the process of determining whether the test cases are covering the code and how much code is exercised when we run those test cases.
  - ❖ Symbolic execution is analyzing a program to determine what inputs cause each part of a program to execute.
3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.
4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts

## **Automated 3P frameworks used to assess the smart contract vulnerabilities**

- ❖ Slither
- ❖ Consensys MythX, Mythril
- ❖ SWC Registry
- ❖ Solidity Coverage
- ❖ Open Zeppelin Code Analyzer
- ❖ Solidity Code Compiler



# Risk Classification

Smart contracts are generally designed to manipulate and hold funds denominated in ETH/BNB. This makes them very tempting attack targets, as a successful attack may allow the attacker to directly steal funds from the contract. Below are the typical risk levels of a smart contract:

**Vulnerable:** A contract is vulnerable if it has been flagged by a static analysis tool as such. As we will see later, this means that some contracts may be vulnerable because of a false positive.

**Exploitable:** A contract is exploitable if it is vulnerable and the vulnerability could be exploited by an external attacker. For example, if the “vulnerability” flagged by a tool is in a function that requires owning the contract, it would be vulnerable but not exploitable.

**Exploited:** A contract is exploited if it received a transaction on the main network which triggered one of its vulnerabilities. Therefore, a contract can be vulnerable or even exploitable without having been exploited.

## Smart Contract Security Audit

Risk severity	Meaning
<b>! High</b>	This level vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
<b>! Medium</b>	This level vulnerabilities are hard to exploit but very important to fix, they carry an elevated risk of smart contract manipulation, which can lead to high-risk severity
<b>! Low</b>	This level vulnerabilities should be fixed, as they carry an inherent risk of future exploits, and hacks which may or may not impact the smart contract execution.
<b>! Informational</b>	This level vulnerabilities can be ignored. They are code style violations and informational statements in the code. They may not affect the smart contract execution


























# Static Analysis

Symbol	Meaning
	Function can be modified
	Function is payable
	Function is locked
	Function can be accessed
!	Important functionality

```

| **SafeMathInt** | Library |   | |
| L | mul | Internal  |   |
| L | div | Internal  |   |
| L | sub | Internal  |   |
| L | add | Internal  |   |
| L | abs | Internal  |   |
|
|
|
|
| **IERC20** | Interface |   | |
| L | totalSupply | External ! | NO ! |
| L | balanceOf | External ! | NO ! |
| L | allowance | External ! | NO ! |
| L | transfer | External ! |  NO ! |
| L | approve | External ! |  NO ! |
| L | transferFrom | External ! |  NO ! |
|
|
|
|
| **SafeMath** | Library |   | |
| L | add | Internal  |   |
| L | sub | Internal  |   |
| L | sub | Internal  |   |
| L | mul | Internal  |   |
| L | div | Internal  |   |
| L | div | Internal  |   |
| L | mod | Internal  |   |
|
|
|
|
| **InterfaceLP** | Interface |   |
| L | sync | External ! |  NO ! |
|
|
|
|
| **Roles** | Library |   | |
| L | add | Internal   |   |
| L | remove | Internal   |   |
| L | has | Internal  |   |

```



```

||||| |
| **ERC20Detailed** | Implementation | IERC20 |||
| L | <Constructor> | Public ! | 🚫 |NO! |
| L | name | Public ! | |NO! |
| L | symbol | Public ! | |NO! |
| L | decimals | Public ! | |NO! |
|||||
| **IDEXRouter** | Interface | |||
| L | factory | External ! | |NO! |
| L | WETH | External ! | |NO! |
| L | addLiquidity | External ! | 🚫 |NO! |
| L | addLiquidityETH | External ! | 🚫 |NO! |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | 🚫 |NO! |
| L | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | 🚫 |NO! |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | 🚫 |NO! |
|||||
| **IDEXFactory** | Interface | |||
| L | createPair | External ! | 🚫 |NO! |
|||||
| **Ownable** | Implementation | |||
| L | <Constructor> | Public ! | 🚫 |NO! |
| L | owner | Public ! | |NO! |
| L | renounceOwnership | Public ! | 🚫 | onlyOwner |
| L | transferOwnership | Public ! | 🚫 | onlyOwner |
| L | _transferOwnership | Internal 🚫 | 🚫 | |
|||||
| **AppleDAO** | Implementation | ERC20Detailed, Ownable |||
| L | <Constructor> | Public ! | 🚫 | ERC20Detailed |
| L | <Receive Ether> | External ! | 🚫 |NO! |
| L | totalSupply | External ! | |NO! |
| L | allowance | External ! | |NO! |
| L | balanceOf | Public ! | |NO! |
| L | checkFeeExempt | External ! | |NO! |
| L | checkSwapThreshold | External ! | |NO! |
| L | shouldRebase | Internal 🚫 | | |
| L | shouldTakeFee | Internal 🚫 | | |
| L | shouldSwapBack | Public ! | |NO! |
| L | getCirculatingSupply | Public ! | |NO! |
| L | getLiquidityBacking | Public ! | |NO! |
| L | isOverLiquified | Public ! | |NO! |
| L | manualSync | Public ! | 🚫 |NO! |
| L | transfer | External ! | 🚫 | validRecipient |
| L | _basicTransfer | Internal 🚫 | 🚫 | |
| L | _transferFrom | Internal 🚫 | 🚫 | |
| L | transferFrom | External ! | 🚫 | validRecipient |
| L | _swapAndLiquify | Private 🚫 | 🚫 | |
| L | _addLiquidity | Private 🚫 | 🚫 | |
| L | _addLiquidityBusd | Private 🚫 | 🚫 | |
| L | _swapTokensForBNB | Private 🚫 | 🚫 | |
| L | _swapTokensForBusd | Private 🚫 | 🚫 | |

```



```

| L | swapBack | Internal | 🗝️ | 🔴 | swapping |
| L | takeFee | Internal | 🗝️ | 🔴 | |
| L | decreaseAllowance | External | ! | 🔴 | NO ! |
| L | increaseAllowance | External | ! | 🔴 | NO ! |
| L | approve | External | ! | 🔴 | NO ! |
| L | _rebase | Private | 🗝️ | 🔴 | |
| L | coreRebase | Private | 🗝️ | 🔴 | |
| L | manualRebase | External | ! | 🔴 | onlyOwner |
| L | setAutomatedMarketMakerPair | Public | ! | 🔴 | onlyOwner |
| L | setInitialDistributionFinished | External | ! | 🔴 | onlyOwner |
| L | setFeeExempt | External | ! | 🔴 | onlyOwner |
| L | setTargetLiquidity | External | ! | 🔴 | onlyOwner |
| L | setSwapBackSettings | External | ! | 🔴 | onlyOwner |
| L | setFeeReceivers | External | ! | 🔴 | onlyOwner |
| L | clearStuckBalance | External | ! | 🔴 | onlyOwner |
| L | rescueToken | External | ! | 🔴 | onlyOwner |
| L | setAutoRebase | External | ! | 🔴 | onlyOwner |
| L | setRebaseFrequency | External | ! | 🔴 | onlyOwner |
| L | setRewardYield | External | ! | 🔴 | onlyOwner |
| L | setFeesOnNormalTransfers | External | ! | 🔴 | onlyOwner |
| L | setIsLiquidityInBnb | External | ! | 🔴 | onlyOwner |
| L | setNextRebase | External | ! | 🔴 | onlyOwner |
| L | setMaxSellTransaction | External | ! | 🔴 | onlyOwner |

```

## Smart Contract Security Audit



# Software Analysis

## Function Signatures

```

39509351 => increaseAllowance(address,uint256)
43509138 => div(int256,int256)
bbe93d91 => mul(int256,int256)
adefc37b => sub(int256,int256)
a5f3c23b => add(int256,int256)
1b5ac4b5 => abs(int256)
18160ddd => totalSupply()
70a08231 => balanceOf(address)
dd62ed3e => allowance(address,address)
a9059cbb => transfer(address,uint256)
095ea7b3 => approve(address,uint256)
23b872dd => transferFrom(address,address,uint256)
771602f7 => add(uint256,uint256)
b67d77c5 => sub(uint256,uint256)
e31bdc0a => sub(uint256,uint256,string)
c8a4ac9c => mul(uint256,uint256)
a391c15b => div(uint256,uint256)
b745d336 => div(uint256,uint256,string)
f43f523a => mod(uint256,uint256)
fff6cae9 => sync()
b782197a => add(Role,address)
3e59fb33 => remove(Role,address)
ced709a2 => has(Role,address)
06fdde03 => name()
95d89b41 => symbol()
313ce567 => decimals()
c45a0155 => factory()
ad5c4648 => WETH()
e8e33700 => addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256)
f305d719 => addLiquidityETH(address,uint256,uint256,uint256,address,uint256)
5c11d795 =>
swapExactTokensForTokensSupportingFeeOnTransferTokens(uint256,uint256,address[],address,uint256)
b6f9de95 => swapExactETHForTokensSupportingFeeOnTransferTokens(uint256,address[],address,uint256)
791ac947 =>
swapExactTokensForETHSupportingFeeOnTransferTokens(uint256,uint256,address[],address,uint256)
c9c65396 => createPair(address,address)
8da5cb5b => owner()
715018a6 => renounceOwnership()
f2fde38b => transferOwnership(address)
d29d44ee => _transferOwnership(address)
d4399790 => checkFeeExempt(address)
6d351d1a => checkSwapThreshold()
63eab10a => shouldRebase()
332402f8 => shouldTakeFee(address,address)
0d5c6cea => shouldSwapBack()

```



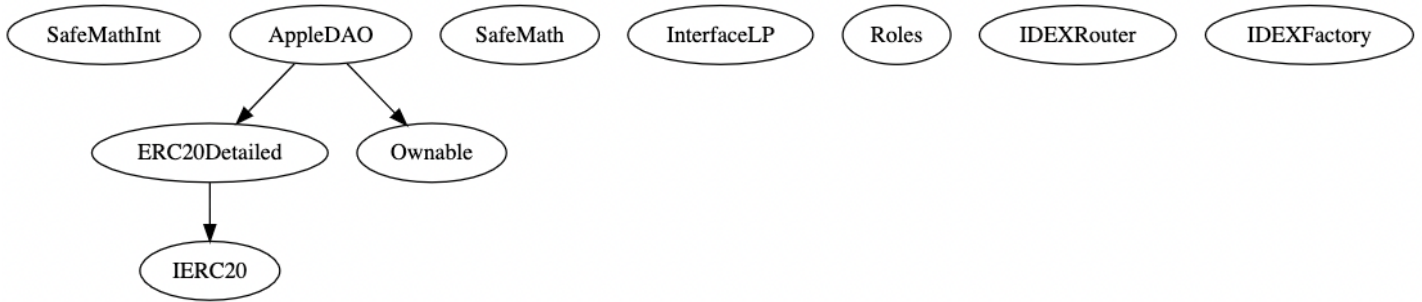
```

2b112e49 => getCirculatingSupply()
d51ed1c8 => getLiquidityBacking(uint256)
1161ae39 => isOverLiquified(uint256,uint256)
753d02a1 => manualSync()
f0774e71 => _basicTransfer(address,address,uint256)
cb712535 => _transferFrom(address,address,uint256)
7bf54cb9 => _swapAndLiquify(uint256)
9e8af2af => _addLiquidity(uint256,uint256)
37b56620 => _addLiquidityBusd(uint256,uint256)
bd0a7efc => _swapTokensForBNB(uint256,address)
ae503da1 => _swapTokensForBusd(uint256,address)
6ac5eeee => swapBack()
20cb7bce => takeFee(address,address,uint256)
a457c2d7 => decreaseAllowance(address,uint256)
edb65cb4 => _rebase()
f4897b25 => coreRebase(int256)
61a9d1b1 => manualRebase()
9a7a23d6 => setAutomatedMarketMakerPair(address,bool)
1276089b => setInitialDistributionFinished(bool)
8ebfc796 => setFeeExempt(address,bool)
201e7991 => setTargetLiquidity(uint256,uint256)
d0889358 => setSwapBackSettings(bool,uint256,uint256)
d7c01032 => setFeeReceivers(address,address,address)
764d72bf => clearStuckBalance(address)
33f3d628 => rescueToken(address,uint256)
e15beb80 => setAutoRebase(bool)
4cd9ddf2 => setRebaseFrequency(uint256)
01b16827 => setRewardYield(uint256,uint256)
f3a54f2c => setFeesOnNormalTransfers(bool)
544727bc => setIsLiquidityInBnb(bool)
9ae7372d => setNextRebase(uint256)
5c38ffe2 => setMaxSellTransaction(uint256)

```



## Inheritance Graph



# InterFi

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## Smart Contract Security Audit



# Manual Analysis

Function	Description	Tested	Verdict
<b>Total Supply</b>	provides information about the total token supply	Yes	<b>Passed</b>
<b>Balance Of</b>	provides account balance of the owner's account	Yes	<b>Passed</b>
<b>Transfer</b>	executes transfers of a specified number of tokens to a specified address	Yes	<b>Passed</b>
<b>Approve</b>	allow a spender to withdraw a set number of tokens from a specified account	Yes	<b>Passed</b>
<b>Allowance</b>	returns a set number of tokens from a spender to the owner	Yes	<b>Passed</b>
<b>Rebase</b>	circulating token supply adjusts (increases or decreases) automatically according to a token's price fluctuations	Yes	<b>! Low</b>
<b>Max Transaction</b>	a non-whitelisted wallet can only transfer a specified number of tokens	Yes	<b>! Low</b>
<b>Transfer Ownership</b>	executes transfer of contract ownership to a specified wallet	Yes	<b>Passed</b>
<b>Renounce Ownership</b>	executes transfer of contract ownership to a dead address	Yes	<b>Passed</b>



## Best Practices

- ❖ Owner cannot stop or pause the smart contract.
- ❖ The smart contract utilizes "SafeMath" function to avoid common smart contract vulnerabilities.

```
string private _name = "AppleDAO";
library SafeMath {
function add(uint256 a, uint256 b) internal pure returns (uint256) {
    uint256 c = a + b;
    require(c >= a, "SafeMath: addition overflow");
function sub(uint256 a, uint256 b) internal pure returns (uint256) {
    return sub(a, b, "SafeMath: subtraction overflow");
    uint256 c = a * b;
    require(c / a == b, "SafeMath: multiplication overflow");
    return c;
function div(uint256 a, uint256 b) internal pure returns (uint256) {
    return div(a, b, "SafeMath: division by zero");
function mod(uint256 a, uint256 b) internal pure returns (uint256) {
    return mod(a, b, "SafeMath: modulo by zero");
```

## Note

- ❖ Active smart contract owner: 0xf0b1dc1e8baac966499883baba7b79018548fd4e
- ❖ **Be aware that active smart contract owner privileges constitute an elevated impact to smart contract safety and security.**
- ❖ Apple DAO's smart contract utilizes **rebase**. With rebase, the circulating token supply adjusts (increases or decreases) automatically or manually according to a set parameter. Arbitrary limits are set to limit the input values.

```
function shouldRebase() internal view returns (bool) {
    return nextRebase <= block.timestamp;
function manualRebase() external onlyOwner{
    require(!inSwap, "Try again");
    require(nextRebase <= block.timestamp, "Not in time");
function setAutoRebase(bool _autoRebase) external onlyOwner {
    require(autoRebase != _autoRebase, "Not changed");
    autoRebase = _autoRebase;
function setRebaseFrequency(uint256 _rebaseFrequency) external onlyOwner {
    require(_rebaseFrequency <= MAX_REBASE_FREQUENCY, "Too high");
    rebaseFrequency = _rebaseFrequency;
```





- ❖ Smart contract owner can **change transaction fees**. This function module can be used to impose extraordinary transaction fees. No arbitrary limit set.
- ❖ Smart contract owner can **change sell max transaction limit**. The smart contract owner can change the value to “zero”. No arbitrary limit set.

```
function setMaxSellTransaction(uint256 _maxTxn) external onlyOwner {
    maxSellTransactionAmount = _maxTxn;
```

- ❖ Smart contract has a **low severity issue** which may or may not create any functional vulnerability.

```
{
    "resource": "/AppleDAO.sol",
    "severity": 8, (! Low Severity)
    "Expected pragma, import directive or contract/interface/library definition",
    "source": "solc",
}
```



# SWC Attacks

SWC ID	Description	Verdict
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	! Informational
SWC-103	Floating Pragma	! Low
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELF-DESTRUCT Instruction	Passed
SWC-107	Re-entrancy	Passed
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegate Call to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed
SWC-116	Block values as a proxy for time	Passed
SWC-117	Signature Malleability	Passed
SWC-118	Incorrect Constructor Name	Passed

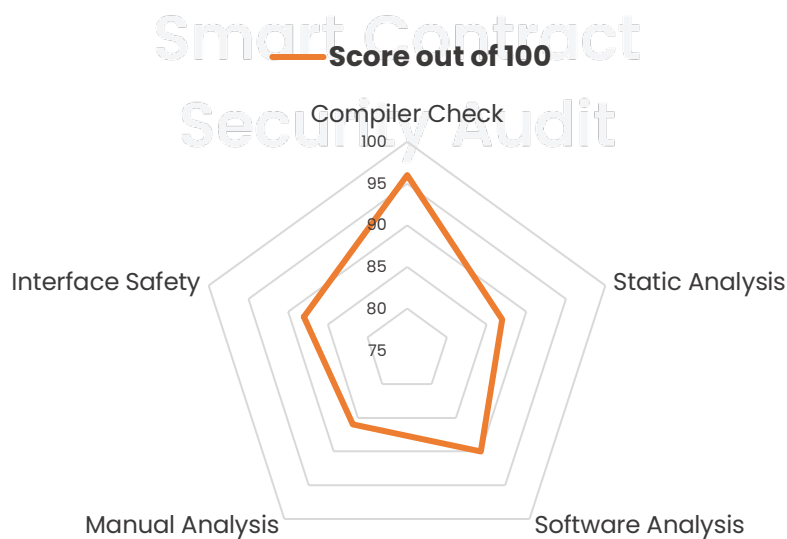


<b>SWC-119</b>	Shadowing State Variables	<b>Passed</b>
<b>SWC-120</b>	Weak Sources of Randomness from Chain Attributes	<b>Passed</b>
<b>SWC-121</b>	Missing Protection against Signature Replay Attacks	<b>Passed</b>
<b>SWC-122</b>	Lack of Proper Signature Verification	<b>Passed</b>
<b>SWC-123</b>	Requirement Violation	<b>Passed</b>
<b>SWC-124</b>	Write to Arbitrary Storage Location	<b>Passed</b>
<b>SWC-125</b>	Incorrect Inheritance Order	<b>Passed</b>
<b>SWC-126</b>	Insufficient Gas Griefing	<b>Passed</b>
<b>SWC-127</b>	Arbitrary Jump with Function Type Variable	<b>Passed</b>
<b>SWC-128</b>	DoS With Block Gas Limit	<b>Passed</b>
<b>SWC-129</b>	Typographical Error	<b>Passed</b>
<b>SWC-130</b>	Right-To-Left-Override control character (U+202E)	<b>Passed</b>
<b>SWC-131</b>	Presence of unused variables	<b>Passed</b>
<b>SWC-132</b>	Unexpected Ether balance	<b>Passed</b>
<b>SWC-133</b>	Hash Collisions With Multiple Variable Length Arguments	<b>Passed</b>
<b>SWC-134</b>	Message call with the hardcoded gas amount	<b>Passed</b>
<b>SWC-135</b>	Code With No Effects (Irrelevant/Dead Code)	<b>Passed</b>
<b>SWC-136</b>	Unencrypted Private Data On-Chain	<b>Passed</b>



# Risk Status & Radar Chart

Risk Severity	Status
<b>! High</b>	No high severity issues identified
<b>! Medium</b>	No medium severity issues identified
<b>! Low</b>	3 low severity issues identified <ul style="list-style-type: none"> <li>❖ Please Review Report</li> </ul>
<b>! Informational</b>	2 informational severity issues identified <ul style="list-style-type: none"> <li>❖ Active Ownership</li> <li>❖ Outdated Compiler</li> </ul>
<b>Verified</b>	54 functions and instances verified and checked



# Auditor's Verdict

InterFi team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks.

- ❖ Apple DAO's solidity source code has **LOW RISK SEVERITY**
- ❖ Apple DAO's smart contract has an **ACTIVE OWNERSHIP**
- ❖ Apple DAO's smart contract owner has multiple "Write Contract" privileges. Centralization risk correlated to the active owner is **HIGH**
- ❖ Apple DAO's smart contract utilizes **REBASE**. With rebase, the circulating token supply adjusts (increases or decreases) automatically or manually according to set parameters

InterFi

## Smart Contract Security Audit

### Note for stakeholders

- ❖ Be aware that active smart contract owner privileges constitute an elevated impact on smart contract safety and security.
- ❖ Make sure that the project team's KYC/identity is verified by an independent firm.
- ❖ Always check if the contract's liquidity is locked. A longer liquidity lock plays an important role in the project's longevity. It is recommended to have multiple liquidity providers.
- ❖ Examine the unlocked token supply in the owner, developer, or team's private wallets. Understand the project's tokenomics, and make sure the tokens outside of the LP Pair are vested or locked for a longer period.



# Important Disclaimer

InterFi Network provides contract development, testing, auditing and project evaluation services for blockchain projects. The purpose of the audit is to analyze the on-chain smart contract source code and to provide a basic overview of the project. **This report should not be transmitted, disclosed, referred to, or relied upon by any person for any purpose without InterFi's prior written consent.**

InterFi provides the easy-to-understand assessment of the project, and the smart contract (otherwise known as the source code). The audit makes no statements or warranties on the security of the code. It also cannot be considered as enough assessment regarding the utility and safety of the code, bug-free status, or any other statements of the contract. While we have used all the data at our disposal to provide the transparent analysis, it is important to note that you should not rely on this report only – we recommend proceeding with several independent audits and a public bug bounty program to ensure the security of smart contracts. **Be aware that smart contracts deployed on a blockchain aren't resistant to external vulnerability, or a hack. Be aware that active smart contract owner privileges constitute an elevated impact on smart contract safety and security. Therefore, InterFi does not guarantee the explicit security of the audited smart contract.**

The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

**This report should not be considered as an endorsement or disapproval of any project or team.**

The information provided in this report does not constitute investment advice, financial advice, trading advice, or any other sort of advice and you should not treat any of the report's content as such. Do conduct your due diligence and consult your financial advisor before making any investment decisions.



# About InterFi Network

InterFi Network provides intelligent blockchain solutions. InterFi is developing an ecosystem that is seamless and responsive. Some of our services: Blockchain Security, Token Launchpad, NFT Marketplace, etc. **InterFi's mission is to interconnect multiple services like Blockchain Security, DeFi, Gaming, and Marketplace under one ecosystem that is seamless, multi-chain compatible, scalable, secure, fast, responsive, and easy to use.**

InterFi is built by a decentralized team of UI experts, contributors, engineers, and enthusiasts from all over the world. Our team currently consists of 6+ core team members, and 10+ casual contributors. **InterFi provides manual, static, and automatic smart contract analysis, to ensure that project is checked against known attacks and potential vulnerabilities.**

To learn more, visit <https://interfi.network>

To view our audit portfolio, visit <https://github.com/interfinetwork>....

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