

SMART CONTRACT AUDIT

- interfinetwork
- hello@interfi.network
- https://interfi.network

PREPARED FOR

SON OF PEPE



INTRODUCTION

Auditing Firm	InterFi Network
Client Firm	Son of Pepe
Methodology	Automated Analysis, Manual Code Review
Language	Solidity
Contract	0xDAa9938BfC9le64eB1485DEfD481369C7aC5alf3
Blockchain	Binance Smart Chain
Centralization	Active ownership
Commit AUDIT REPORT CONFI	86abb4eaaff72709fa0f2c3234c26abf86f1c755
Website	https://sonofpepe.org/
Report Date	May 07, 2023

I Verify the authenticity of this report on our website: https://www.github.com/interfinetwork



EXECUTIVE SUMMARY

InterFi has performed the automated and manual analysis of solidity codes. Solidity codes were reviewed for common contract vulnerabilities and centralized exploits. Here's a quick audit summary:

Status	Critical	Major 🛑	Medium 🛑	Minor	Unknown
Open	0	0	0	4	0
Acknowledged	0	1	1	1	1
Resolved	0	0	0	0	0
Noteworthy Set Fees, Update Claim Wait, Update Minimum Balance for Dividends, Privileges Process Dividend Tracker				vidends,	

INTERFI INTERFI INTERFI INTERFI INTERFI INTERFI INTERFI INTERFI AUDIT REPORT CONFIDENTIAL AUDIT REPORT

Please note that smart contracts deployed on blockchains aren't resistant to exploits, vulnerabilities and/or hacks. Blockchain and cryptography assets utilize new and emerging technologies. These technologies present a high level of ongoing risks. For a detailed understanding of risk severity, source code vulnerability, and audit limitations, kindly review the audit report thoroughly.

Please note that centralization privileges regardless of their inherited risk status - constitute an elevated impact on smart contract safety and security.



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SCOPE OF WORK

InterFi was consulted by Son of Pepe to conduct the smart contract audit of their solidity source codes.

The audit scope of work is strictly limited to mentioned solidity file(s) only:

- SPEPE.sol
- If source codes are not deployed on the main net, they can be modified or altered before mainnet deployment. Verify the contract's deployment status below:

Public Contract Link					
https://bscscan.com/address/0xDAa9938BfC91e64eB1485DEfD481369C7aC5a1f3#code					
Contract Name TERF	BABYTOKEN				
Compiler Version	0.8.4				
License	MIT				



AUDIT METHODOLOGY

Smart contract audits are conducted using a set of standards and procedures. Mutual collaboration is essential to performing an effective smart contract audit. Here's a brief overview of InterFi's auditing process and methodology:

CONNECT

 The onboarding team gathers source codes, and specifications to make sure we understand the size, and scope of the smart contract audit.

AUDIT

- Automated analysis is performed to identify common contract vulnerabilities. We may use the following third-party frameworks and dependencies to perform the automated analysis:
 - Remix IDE Developer Tool
 - Open Zeppelin Code Analyzer
 - SWC Vulnerabilities Registry
 - DEX Dependencies, e.g., Pancakeswap, Uniswap
- Simulations are performed to identify centralized exploits causing contract and/or trade locks.
- A manual line-by-line analysis is performed to identify contract issues and centralized privileges.
 We may inspect below mentioned common contract vulnerabilities, and centralized exploits:

	o Token Supply Manipulation
	 Access Control and Authorization
	 Assets Manipulation
Controlized Evaleite	 Ownership Control
Centralized Exploits	 Liquidity Access
	 Stop and Pause Trading
	 Ownable Library Verification



	 Integer Overflow
	 Lack of Arbitrary limits
	o Incorrect Inheritance Order
	 Typographical Errors
	o Requirement Violation
	o Gas Optimization
	o Coding Style Violations
Common Contract Vulnerabilities	o Re-entrancy
	 Third-Party Dependencies
	 Potential Sandwich Attacks
	o Irrelevant Codes
	o Divide before multiply
	o Conformance to Solidity Naming Guides
	Compiler Specific Warnings
	Language Specific Warnings

REPORT

- o The auditing team provides a preliminary report specifying all the checks which have been performed and the findings thereof.
- o The client's development team reviews the report and makes amendments to solidity codes.
- o The auditing team provides the final comprehensive report with open and unresolved issues.

PUBLISH

- o The client may use the audit report internally or disclose it publicly.
- It is important to note that there is no pass or fail in the audit, it is recommended to view the audit as an unbiased assessment of the safety of solidity codes.



RISK CATEGORIES

Smart contracts are generally designed to hold, approve, and transfer tokens. This makes them very tempting attack targets. A successful external attack may allow the external attacker to directly exploit. A successful centralization-related exploit may allow the privileged role to directly exploit. All risks which are identified in the audit report are categorized here for the reader to review:

Risk Type	Definition
Critical •	These risks could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
Major	These risks 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.
Medium O	These risks should be fixed, as they carry an inherent risk of future exploits, and hacks which may or may not impact the smart contract execution. Low-risk reentrancy-related vulnerabilities should be fixed to deter exploits. These risks do not pose a considerable risk to the contract or those who interact
Minor •	with it. They are code-style violations and deviations from standard practices. They should be highlighted and fixed nonetheless.
Unknown	These risks pose uncertain severity to the contract or those who interact with it. They should be fixed immediately to mitigate the risk uncertainty.

All statuses which are identified in the audit report are categorized here for the reader to review:

Status Type	Definition
Open	Risks are open.
Acknowledged	Risks are acknowledged, but not fixed.
Resolved	Risks are acknowledged and fixed.



CENTRALIZED PRIVILEGES

Centralization risk is the most common cause of cryptography asset loss. When a smart contract has a privileged role, the risk related to centralization is elevated.

There are some well-intended reasons have privileged roles, such as:

- o Privileged roles can be granted the power to pause() the contract in case of an external attack.
- Privileged roles can use functions like, include(), and exclude() to add or remove wallets from fees, swap checks, and transaction limits. This is useful to run a presale and to list on an exchange.

Authorizing privileged roles to externally-owned-account (EOA) is dangerous. Lately, centralization-related losses are increasing in frequency and magnitude.

- o The client can lower centralization-related risks by implementing below mentioned practices:
- o Privileged role's private key must be carefully secured to avoid any potential hack.
- Privileged role should be shared by multi-signature (multi-sig) wallets.
- Authorized privilege can be locked in a contract, user voting, or community DAO can be introduced to unlock the privilege.
- Renouncing the contract ownership, and privileged roles.
- o Remove functions with elevated centralization risk.
- Understand the project's initial asset distribution. Assets in the liquidity pair should be locked.

 Assets outside the liquidity pair should be locked with a release schedule.



AUTOMATED ANALYSIS

Symbol	Definition
	Function modifies state
Es	Function is payable
	Function is internal
	Function is private
Ţ	Function is important

```
| **IERC20** | Interface | |||
| L | totalSupply | External ! | NO! |
| L | balanceOf | External ! | NO! |
| L | transfer | External ! | 🔎 |NO! |
| L | allowance | External ! | NO! |
| L | approve | External ! | 🔎 |NO! |
| └ | transferFrom | External ! | ● |NO! |
| **IERC20Metadata** | Interface | IERC20 |||
| L | name | External ! | | NO! |
| L | symbol | External ! | NO! |
| L | decimals | External ! | NO! |
| **Context** | Implementation | |||
| └ | _msgData | Internal 🔒 | | |
\Pi\Pi\Pi\Pi
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata |||
```





```
| └ | <Constructor> | Public ! | ● |NO! | |
| L | name | Public ! | | NO! |
| L | symbol | Public ! | NO! |
| L | decimals | Public ! | NO! |
| L | totalSupply | Public ! | NO! |
| L | balanceOf | Public ! | NO! |
| L | transfer | Public ! | 🔴 |NO! |
| L | allowance | Public ! | NO! |
| L | approve | Public ! | • |NO! |
| L | transferFrom | Public ! | 📦 |NO! |
| L | increaseAllowance | Public ! | Governormal | NO! |
| L | decreaseAllowance | Public ! | Public ! | | NO! |
| └ | _transfer | Internal 🏻 | ● | |
| L | _burn | Internal 🗎 | 🛑 | |
| L | _approve | Internal = | = | |
| └ | _beforeTokenTransfer | Internal 🔒 | 🛑 | |
111111
| **Ownable** | Implementation | Context |||
| └ | <Constructor> | Public ! | ● |NO! |
| <sup>L</sup> | owner | Public ! |
                       |NO ! |
| L | renounceOwnership | Public ! | Gentlement | onlyOwner |
| L | transferOwnership | Public ! | General | onlyOwner |
| L | _setOwner | Private 🔐 | ● | |
| **SafeMath** | Library | |||
| L | tryAdd | Internal 🗎 | | |
```



```
| L | trySub | Internal 🗎 | | |
| L | tryMul | Internal 🔒 |
| L | tryDiv | Internal 🗎 |
| L | tryMod | Internal 🗎 |
| <sup>L</sup> | add | Internal 🔒 |
| <sup>L</sup> | sub | Internal 🗎 |
| <sup>L</sup> | mul | Internal <sup>@</sup> |
                         | <sup>L</sup> | div | Internal 🔒 |
| <sup>L</sup> | mod | Internal <sup>@</sup> |
                         | <sup>L</sup> | sub | Internal 🔒 |
                         | <sup>L</sup> | div | Internal 🔒 |
                         | <sup>L</sup> | mod | Internal 🗎 |
| **Clones** | Library | |||
\mid \mid \mid clone \mid Internal \mid \mid \mid \mid \mid \mid
| └ | cloneDeterministic | Internal 🗎 | 🛑 | |
| └ | predictDeterministicAddress | Internal 🗎 |
| **Address** | Library | |||
| └ | sendValue | Internal 🗎 | 🔎 | |
| L | functionCall | Internal 🗎 | 🛑 | |
| └ | functionCallWithValue | Internal 🔒 | ● | |
| L | functionCallWithValue | Internal 🗎 | 🛑 | |
| └ | functionStaticCall | Internal 🗎 |
```



```
| └ | functionDelegateCall | Internal 🔒 | ● | |
| L | functionDelegateCall | Internal 🔒 | 🛑
| L | verifyCallResult | Internal 🗎 | | |
\Pi\Pi\Pi\Pi
| **IUniswapV2Factory** | Interface | |||
| L | feeTo | External ! | NO! |
| L | feeToSetter | External ! | NO! |
| L | getPair | External ! | NO! |
| L | allPairs | External ! | NO! |
| L | allPairsLength | External ! | NO! |
| └ | createPair | External ! | ● |NO! |
| L | setFeeTo | External ! | ● |NO! |
| L | setFeeToSetter | External ! | • |NO! |
\Pi\Pi\Pi\Pi
| **IUniswapV2Router01** | Interface | |||
| L | factory | External ! | NO! |
| L | WETH | External ! | NO! |
| └ | addLiquidity | External ! | ● |NO! |
| L | addLiquidityETH | External ! | 💹 |NO! |
| L | removeLiquidityETH | External ! | • | NO! |
| L | removeLiquidityWithPermit | External ! | P | NO! |
| L | removeLiquidityETHWithPermit | External ! | O | NO! |
| L | swapExactTokensForTokens | External ! | • | NO! |
| L | swapTokensForExactTokens | External ! | • | NO! |
| L | swapExactETHForTokens | External ! | 🐸 |NO! |
| L | swapTokensForExactETH | External ! | 🛑 |NO! |
| L | swapExactTokensForETH | External ! | • | NO! |
```



```
| L | swapETHForExactTokens | External ! | 🙉 |NO! |
| L | quote | External ! | NO! |
| L | getAmountOut | External ! |
| L | getAmountIn | External ! | NO! |
| L | getAmountsOut | External ! | NO! |
| L | getAmountsIn | External ! | NO! |
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
| └ | removeLiquidityETHSupportingFeeOnTransferTokens | External ! | ● |NO! |
| └ | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! | ● |NO! |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | Government | NO! |
| L | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | 🕮 |NO! |
| └ | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | ● |NO! |
\Pi\Pi\Pi\Pi
| **IERC20Upgradeable** | Interface | |||
| L | totalSupply | External ! | NO! |
| L | balanceOf | External ! | NO! |
| L | transfer | External ! | | NO! |
| L | allowance | External ! | NO! |
| L | transferFrom | External ! | 🔎 |NO! |
111111
| **IERC20MetadataUpgradeable** | Interface | IERC20Upgradeable |||
| L | name | External ! | | NO! |
| L | symbol | External ! | NO! |
| L | decimals | External ! | NO! |
| **Initializable** | Implementation | |||
```



```
| | | | | | | |
| **ContextUpgradeable** | Implementation | Initializable |||
| └ | __Context_init | Internal 🏻 | ● | initializer |
| └ | __Context_init_unchained | Internal 🍙 | 🔴 | initializer |
| L | _msgSender | Internal 🗎 | | |
| <sup>L</sup> | _msgData | Internal 🔒 |   | |
| **ERC20Upgradeable** | Implementation | Initializable, ContextUpgradeable,
IERC20Upgradeable, IERC20MetadataUpgradeable |||
| └ | __ERC20_init_unchained | Internal 🏻 | ● | initializer |
| L | name | Public ! | NO! |
| L | symbol | Public ! | NO! |
| L | decimals | Public ! | NO! |
| L | totalSupply | Public ! | NO! |
| L | balanceOf | Public ! | NO! |
| L | transfer | Public ! | 📦 |NO! |
| L | allowance | Public ! | NO! |
| L | approve | Public ! | • |NO! |
| L | transferFrom | Public ! | 📦 |NO! |
| L | increaseAllowance | Public ! | • | NO! |
| L | decreaseAllowance | Public ! | 🔴 | NO! |
| └ | _transfer | Internal 🗎 | 🔎 | |
| L | _mint | Internal 🗎 | 🛑 | |
| <sup>L</sup> | _approve | Internal <sup>⊕</sup> | <sup>⊕</sup> | |
| └ | _afterTokenTransfer | Internal 🗎 | ● | |
```



```
| | | | | | | |
| **OwnableUpgradeable** | Implementation | Initializable, ContextUpgradeable | | |
| └ | __Ownable_init | Internal 🍙 | ● | initializer |
| └ | __Ownable_init_unchained | Internal 🍙 | 🔴 | initializer |
| <sup>L</sup> | owner | Public ! |
                        |NO ! |
| L | renounceOwnership | Public ! | 🔴 | onlyOwner |
| L | transferOwnership | Public ! | 🔴 | onlyOwner |
\Pi\Pi\Pi\Pi
| **IUniswapV2Pair** | Interface | |||
| L | name | External ! | NO! |
| L | symbol | External ! | NO! |
| L | decimals | External ! | NO! |
| L | totalSupply | External ! | NO! |
| L | balanceOf | External ! | NO! |
| L | allowance | External ! | NO! |
| L | approve | External ! | 🔎 |NO! |
| L | transfer | External ! | | NO! |
| L | transferFrom | External ! | P | NO! |
| L | DOMAIN_SEPARATOR | External ! | NO! |
| L | PERMIT_TYPEHASH | External ! |
| L | nonces | External ! | NO! |
| L | permit | External ! | • |NO! |
| L | MINIMUM_LIQUIDITY | External ! |
                                      |N0 ! |
| L | factory | External ! | NO! |
| L | token0 | External ! |
                           |NO ! |
| L | token1 | External ! |
                           |NO ! |
| L | getReserves | External ! | NO! |
```



```
| L | price0CumulativeLast | External ! |
                                               |N0 ! |
| L | price1CumulativeLast | External ! |
                                               |NO ! |
| L | kLast | External ! |
                               |NO ! |
| L | mint | External ! | • | NO! |
| L | burn | External ! | 🔴
                                |NO! |
| L | swap | External ! | •
                                |NO ! |
| L | skim | External ! | 🔴
                                |NO ! |
| L | sync | External ! | 🔎 |NO! |
| L | initialize | External ! | 🔎 |NO! |
111111
| **SafeMathInt** | Library | |||
\mid \mid \mid mul \mid Internal \mid \mid
| <sup>L</sup> | div | Internal 🔒 |
| <sup>L</sup> | sub | Internal 🔒 |
| <sup>L</sup> | add | Internal <sup>©</sup> |
| <sup>L</sup> | abs | Internal 🗎 |
                           | L | toUint256Safe | Internal 🗎 |
\Pi\Pi\Pi\Pi
| **SafeMathUint** | Library | |||
| L | toInt256Safe | Internal 🗎 |
\Pi\Pi\Pi\Pi
| **IterableMapping** | Library | |||
| L | get | Public ! | NO! |
| L | getIndexOfKey | Public ! |
                                      |N0 ! |
| L | getKeyAtIndex | Public ! |
                                      |N0 ! |
| L | size | Public ! | | NO! |
| L | set | Public ! | • | NO! |
| L | remove | Public ! | | NO! |
```



```
| | | | | | | |
| **DividendPayingTokenInterface** | Interface | |||
| L | dividendOf | External ! | NO! |
| L | withdrawDividend | External ! | • | NO! |
111111
| **DividendPayingTokenOptionalInterface** | Interface | |||
| L | withdrawableDividendOf | External ! | NO! |
| L | withdrawnDividendOf | External ! | NO! |
| L | accumulativeDividendOf | External ! | NO! |
\Pi\Pi\Pi\Pi
| **DividendPayingToken** | Implementation | ERC20Upgradeable, OwnableUpgradeable,
DividendPayingTokenInterface, DividendPayingTokenOptionalInterface |||
| └ | __DividendPayingToken_init | Internal 🔒 | ● | initializer |
| L | distributeCAKEDividends | Public ! | • | onlyOwner |
| L | withdrawDividend | Public ! | • | NO! |
| L | _withdrawDividendOfUser | Internal 🗎 | 🛑 | |
| L | dividendOf | Public ! | NO! |
| L | withdrawableDividendOf | Public ! |
| L | withdrawnDividendOf | Public ! | NO! |
| L | accumulativeDividendOf | Public ! | NO! |
| L | _transfer | Internal 🔒 | 🛑 | |
| L | _mint | Internal = | \Theta | |
| L | _burn | Internal 🗎 | 🛑 | |
\Pi\Pi\Pi\Pi
| **BABYTOKENDividendTracker** | Implementation | OwnableUpgradeable, DividendPayingToken |||
| └ | initialize | External ! | ● | initializer |
```



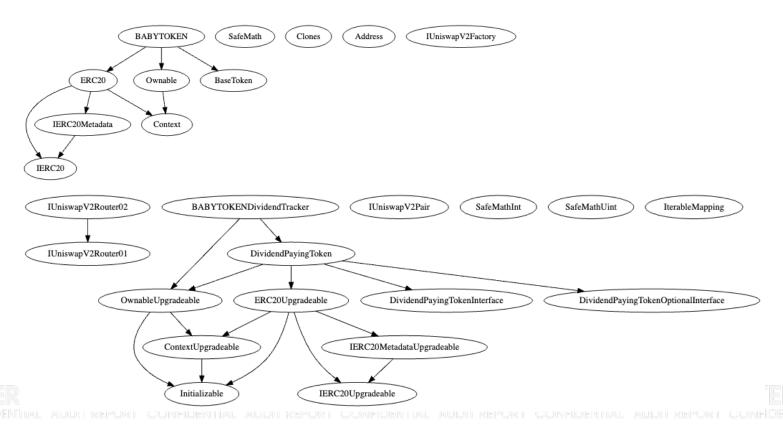
```
| L | withdrawDividend | Public ! | NO! | |
| L | excludeFromDividends | External ! | 🔴 | onlyOwner |
| L | isExcludedFromDividends | Public ! | NO! |
| └ | updateClaimWait | External ! | ● | onlyOwner |
| L | updateMinimumTokenBalanceForDividends | External ! | 🔴 | onlyOwner |
| L | getLastProcessedIndex | External ! | NO! |
| L | getNumberOfTokenHolders | External ! | NO! |
| L | getAccount | Public ! | NO! |
| L | getAccountAtIndex | Public ! | NO! |
| └ | canAutoClaim | Private 🔐 | | |
| L | setBalance | External ! | OnlyOwner |
| L | process | Public ! | • | NO! |
| └ | processAccount | Public ! | ● | onlyOwner |
\Pi\Pi\Pi\Pi
| **BaseToken** | Implementation | |||
\Pi\Pi\Pi\Pi
| **BABYTOKEN** | Implementation | ERC20, Ownable, BaseToken |||
| L | <Constructor> | Public ! | 💹 | ERC20 |
| L | <Receive Ether> | External ! | MO! |
| L | setSwapTokensAtAmount | External ! | Good | onlyOwner |
| L | excludeFromFees | External ! | • | onlyOwner |
| L | excludeMultipleAccountsFromFees | External ! | 🔎 | onlyOwner |
| L | setMarketingWallet | External ! | OnlyOwner |
| L | setTokenRewardsFee | External ! | Page | onlyOwner |
| L | setLiquiditFee | External ! | • | onlyOwner |
| └ | _setAutomatedMarketMakerPair | Private 🔐 | 🔴 | |
| L | updateGasForProcessing | Public ! | 🔎 | onlyOwner |
```



```
| └ | updateClaimWait | External ! | ● | onlyOwner |
| L | getClaimWait | External ! | NO! |
| └ | updateMinimumTokenBalanceForDividends | External ! | ⊖ | onlyOwner |
| L | getMinimumTokenBalanceForDividends | External ! | NO! |
| L | getTotalDividendsDistributed | External ! | NO! |
| L | isExcludedFromFees | Public ! | NO! |
| L | withdrawableDividendOf | Public ! | NO! |
| L | dividendTokenBalanceOf | Public ! | NO! |
| L | excludeFromDividends | External ! | OnlyOwner |
| L | isExcludedFromDividends | Public ! | NO! |
| L | getAccountDividendsInfo | External ! | NO! |
| L | getAccountDividendsInfoAtIndex | External ! | NO! |
| L | claim | External ! | • |NO! |
| L | getLastProcessedIndex | External ! | NO! |
| L | getNumberOfDividendTokenHolders | External ! | NO! |
| L | _transfer | Internal 🗎 | 🛑 | |
| └ | swapAndSendToFee | Private 🔐 | 🛑 | |
| └ | swapAndLiquify | Private 🔐 | 🛑 | |
| └ | swapTokensForCake | Private 🔐 | 🔴 | |
| └ | addLiquidity | Private 🔐 | 🛑 | |
| └ | swapAndSendDividends | Private 🔐 | 🛑 | |
```



INHERITANCE GRAPH





MANUAL REVIEW

Identifier	Definition	Severity
CEN-01	Centralized privileges	Major 🔵

only0wner centralized privileges are listed below:

transferOwnership()
setBalance()
setSwapTokensAtAmount()
setMarketingWallet()
setTokenRewardsFee()
setLiquiditFee()
setMarketingFee()
setMarketingFee()
setAutomatedMarketMakerPair()
updateDividendTracker()
updateUniswapV2Router()
processAccount()
updateClaimWait()
updateMinimumTokenBalanceForDividends()



RECOMMENDATION

Deployers, contract owners, administrators, access controlled, and all other privileged roles' private-keys/access-keys/admin-keys should be secured carefully. These entities can have a single point of failure that compromises the security of the project. Manage centralized and privileged roles carefully, review PAGE 09 for more information.



Identifier	Definition	Severity
CEN-02	Initial asset distribution	Minor •

All of the initially minted assets are sent to the project owner when deploying the contract. This can be an issue as the project owner can distribute tokens without consulting the community.

mint(owner(), totalSupply);

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RECOMMENDATION

Project must communicate with stakeholders and obtain the community consensus while distributing assets.



Identifier	Definition	Severity
CEN-09	Use of proxy and upgradeable contracts	Minor •

Contract upgradeability allows privileged roles to change current contract implementation.

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RECOMMENDATION

Test and validate current contract thoroughly before deployment. Future contract upgradeability negatively elevates centralization risk.



Identifier	Definition	Severity
LOG-02	Potential front-running	Minor •

Potential front-running also classified as – sandwich attack happens when an attacker observes a transaction swapping tokens or adding liquidity without setting restrictions on slippage or minimum output amount. The attacker can manipulate the exchange rate by front-running a transaction to purchase assets and make profits by back-running a transaction to sell assets. Below mentioned functions are called without setting restrictions on slippage or minimum output:

addLiquidity()
swapExactTokensForETHSupportingFeeOnTransfer()

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RECOMMENDATION

These functions should be provided reasonable minimum output amounts, instead of zero.



Identifier	Definition	Severity
COD-01	Authorization through tx.origin	Minor •

Using tx.origin for authorization could make the contract vulnerable as it refers to the original external account that started the transaction.

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RECOMMENDATION

Avoid authorizations via global variables wherever necessary.



Identifier	Definition	Severity
COD-02	Timestamp manipulation via block.timestamp	Minor •

Be aware that the timestamp of the block can be manipulated by a miner. When the contract uses the timestamp to seed a random number, the miner can actually post a timestamp within 15 seconds of the block being validated, effectively allowing the miner to precompute an option more favorable to their chances.

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RECOMMENDATION

To maintain block integrity, follow 15 seconds rule, and scale time dependent events accordingly.



Identifier	Definition	Severity
COD-09	Missing contract balance withdraw	

Smart contract may collect tokens, and ethers from external addresses. Some swap, and liquidity-add events may accumulate residual ethers, and tokens.

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RECOMMENDATION

Add withdraw() function to take out tokens and ethers from the contract.



Identifier	Definition	Severity
COD-10	Third Party Dependencies	Unknown 🗨

Smart contract is interacting with third party protocols e.g., Market Makers, Open Zeppelin tools. The scope of the audit treats third party entities as black boxes and assumes their functional correctness. However, in the real world, third parties can be compromised, and exploited. Moreover, upgrades in third parties can create severe impacts, e.g., increased transactional fees, deprecation of previous routers, etc.

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RECOMMENDATION

Inspect third party dependencies regularly, and mitigate severe impacts whenever necessary.



Identifier	Definition	Severity
COM-02	Outdated compiler version	

Compiler is set an outdated version.



RECOMMENDATION

Set Compiler to version 0.8.12 or above.



Identifier	Definition	Severity
COM-03	Unused or dead code	Medium •

Remove dead code. Remove SafeMath.

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RECOMMENDATION

Remove unused or dead code.



DISCLAIMERS

InterFi Network provides the easy-to-understand audit of solidity source codes (commonly known as smart contracts).

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ABOUT INTERFI NETWORK

InterFi Network provides intelligent blockchain solutions. We provide solidity development, testing, and auditing services. We have developed 150+ solidity codes, audited 1000+ smart contracts, and analyzed 500,000+ code lines. We have worked on major public blockchains e.g., Ethereum, Binance, Cronos, Doge, Polygon, Avalanche, Metis, Fantom, Bitcoin Cash, Velas, Oasis, etc.

InterFi Network is built by engineers, developers, UI experts, and blockchain enthusiasts. Our team currently consists of 4 core members, and 6+ casual contributors.

Website: https://interfi.network

Email: hello@interfi.network

GitHub: https://github.com/interfinetwork

Telegram (Engineering): https://t.me/interfigudits

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