



Full Audit Report

Ajira Pay Security Assessment





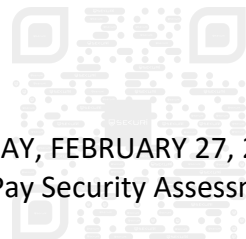
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Report Information

About Report	Ajira Pay Security Assessment
Version	v1.1
Client	Ajira Pay
Language	Solidity
Confidentiality	Public
Contract Address	0xC55b03dC07EC7Bb8B891100E927E982540f0d181
Audit Method	Whitebox
Security Assessment Author	<div><div>Auditor</div><div></div></div> <div>Mark K. [Security Researcher Redteam] Kevin N. [Security Researcher Web3 Dev] Yusheng T. [Security Researcher Incident Response]</div> <div>Approve Document Ronny C. CTO & Head of Security Researcher</div>

*Audit Method

Whitebox: Securi Team receives all source code from the client to provide the assessment.
Blackbox: Securi Team receives only bytecode from the client to provide the assessment.

Digital Sign (Only Full Audit Report)



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Disclaimer

Regarding this security assessment, there are no guarantees about the security of the program instruction received from the client is hereinafter referred to as **"Source code"**.

And **SECURI Lab** hereinafter referred to as **"Service Provider"**, the **Service Provider** will not be held liable for any legal liability arising from errors in the security assessment. The responsibility will be the responsibility of the **Client**, hereinafter referred to as **"Service User"** and the **Service User** agrees not to be held liable to the **service provider** in any case. By contract **Service Provider** to conduct security assessments with integrity with professional ethics, and transparency to deliver security assessments to users The **Service Provider** has the right to postpone the delivery of the security assessment. If the security assessment is delayed whether caused by any reason and is not responsible for any delayed security assessments.

If the **service provider** finds a vulnerability The **service provider** will notify the **service user** via the Preliminary Report, which will be kept confidential for security. The **service provider** disclaims responsibility in the event of any attacks occurring whether before conducting a security assessment. Or happened later All responsibility shall be sole with the **service user**.

Security Assessment Not Financial/Investment Advice Any loss arising from any investment in any project is the responsibility of the investor.

SECURI disclaims any liability incurred. Whether it's Rugpull, Abandonment, Soft Rugpull



The SECURI LAB team has conducted a comprehensive security assessment of the vulnerabilities. This assessment is tested with an expert assessment. Using the following test requirements

1. Smart Contract Testing with Expert Analysis By testing the most common and uncommon vulnerabilities.
2. Automated program testing It includes a sample vulnerability test and a sample of the potential vulnerabilities being used for the most frequent attacks.
3. Visibility, Mutability, Modifier function testing, such as whether a function can be seen in general, or whether a function can be changed and if so, who can change it.
4. Function association test It will be displayed through the association graph.
5. This safety assessment is cross-checked prior to the delivery of the assessment results.

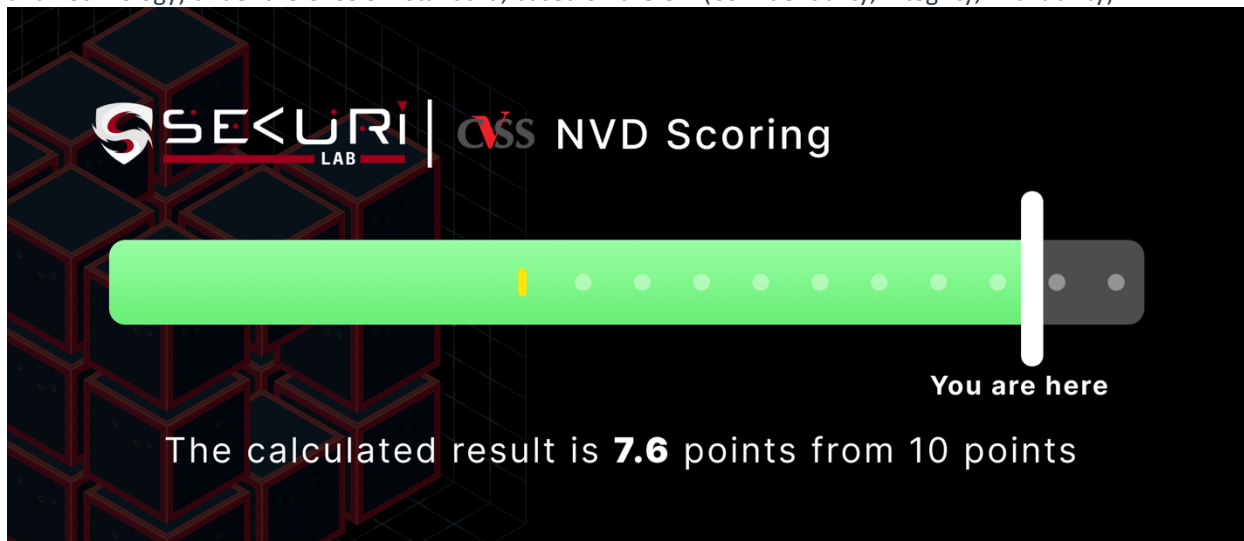
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Executive Summary

For this security assessment, SECURI LAB received a request from **Ajira Pay on Saturday, February 25, 2023.**

NVD CVSS Scoring

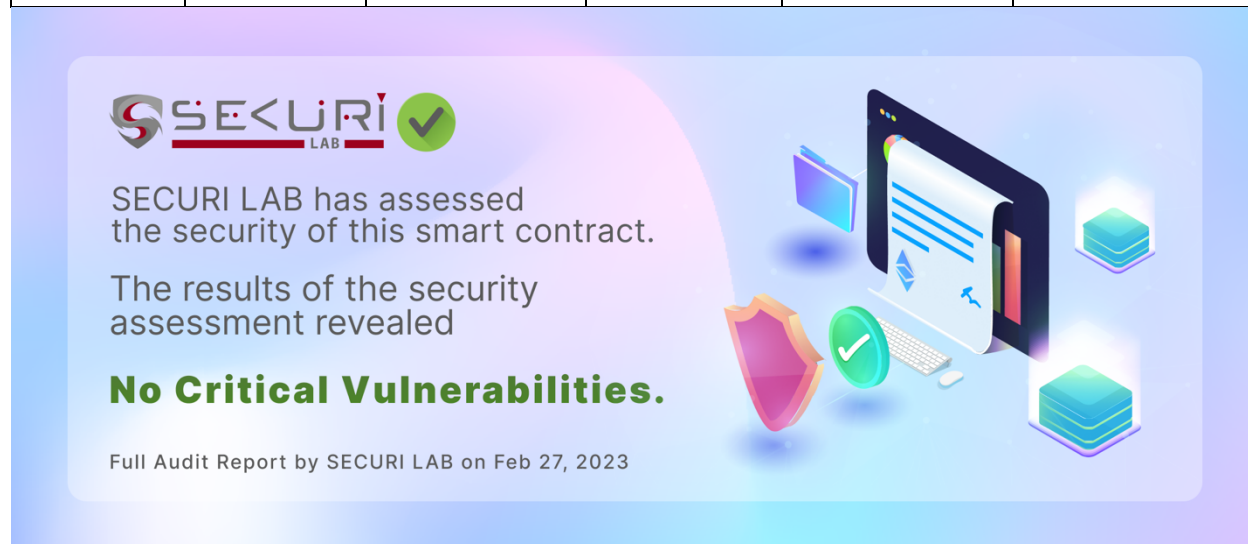
The score was calculated using the NVD (National Vulnerability Database) of NIST (National Institute of Standards and Technology) under the CVSS 3.1 standard, based on the CIA (Confidentiality, Integrity, Availability).



Audit Result

SECURI LAB evaluated the smart contract security of the project and found: **[Total : 6]**

Critical	High	Medium	Low	Very Low	Informational
0	1	1	0	0	4



SECURI LAB has assessed the security of this smart contract. The results of the security assessment revealed

No Critical Vulnerabilities.

Full Audit Report by SECURI LAB on Feb 27, 2023



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Project Introduction

Scope Information:

Project Name	Ajira Pay
Website	https://ajirapay.finance/
Chain	BNB Chain (Previously Binance Smart Chain)
Language	Solidity

Audit Information:

Request Date	Saturday, February 25, 2023
Audit Date	Sunday, February 26, 2023
Re-assessment Date	-

Audit Version History:

Version	Date	Description
1.0	Monday, February 27, 2023	Preliminary Report
1.1	Monday, February 27, 2023	Full Audit Report



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Initial Audit Scope:

Smart Contract	0xC55b03dC07EC7Bb8B891100E927E982540f0d181
Compiler Version	v0.8.4+commit.c7e474f2



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Security Assessment Procedure

Securi has the following procedures and regulations for conducting security assessments:

1.Request Audit Client submits a form request through the Securi channel. After receiving the request, Securi will discuss a security assessment. And drafting a contract and agreeing to sign a contract together with the Client

2.Auditing Securi performs security assessments of smart contracts obtained through automated analysis and expert manual audits.

3.Preliminary Report At this stage, Securi will deliver an initial security assessment. To report on vulnerabilities and errors found under Audit Scope will not publish preliminary reports for safety.

4.Reassessment After Securi has delivered the Preliminary Report to the Client, Securi will track the status of the vulnerability or error, which will be published to the Final Report at a later date with the following statuses:

a.Acknowledge The client has been informed about errors or vulnerabilities from the security assessment.

b.Resolved The client has resolved the error or vulnerability. Resolved is probably just a commit, and Securi is unable to verify that the resolved has been implemented or not.

c.Decline Client has rejected the results of the security assessment on the issue.

5.Final Report Securi providing full security assessment report and public



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Risk Rating

Risk rating using this commonly defined: $Risk\ rating = impact * confidence$

Impact The severity and potential impact of an attacker attack

Confidence Ensuring that attackers expose and use this vulnerability

Both have a total of 3 levels: **High, Medium, Low**. By *Informational* will not be classified as a level

Confidence Impact [Likelihood]	Low	Medium	High
Low	Very Low	Low	Medium
Medium	Low	Medium	High
High	Medium	High	Critical

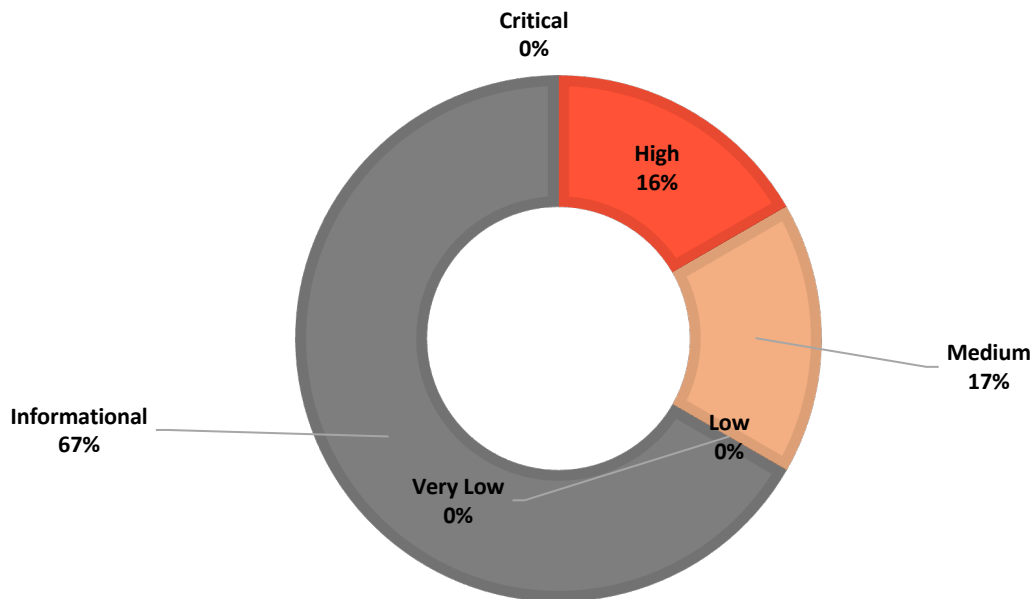
Severity is a risk assessment It is calculated from the Impact and Confidence values using the following calculation methods, $Risk\ rating = impact * confidence$ It is categorized into **5 categories based on the lowest severity: Very Low, Low, Medium, High, Critical**. For **Informational** will not be counted as **severity**

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Vulnerability Severity Summary

Vulnerability Severity Level	Total
Critical	0
High	1
Medium	1
Low	0
Very Low	0
Informational (Non severity level)	4

VULNERABILITY SEVERITY PIE CHART



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Vulnerability Findings

ID	Title	Severity	Status
SEC-01	Owner can change user balance by using burn function	High	Acknowledge
SEC-02	Imprecise arithmetic operations order (divide-before-multiply)	Medium	Acknowledge
SEC-03	Unused state variables (unused-state)	Informational	Acknowledge
SEC-04	Comparison to boolean constant (boolean-equal)	Informational	Acknowledge
SEC-05	If different pragma directives are used (pragma)	Informational	Acknowledge
SEC-06	Conformity to Solidity naming conventions (naming-convention)	Informational	Acknowledge



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SEC-01: Owner can change user balance by using burn function

Type	Severity	Location	Status
Owner can change user balance by using burn function	High	Check on finding	Acknowledge

Finding:

✗ (AjiraPayFinanceToken.sol#373-382)

Exploit Scenario:

The contract owner has the authority to modify the balance of tokens at other addresses, which may result in a loss of assets.

Alleviation:

Ajira Pay team has Acknowledge this issue.



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SEC-02: Imprecise arithmetic operations order (divide-before-multiply)

Type	Severity	Location	Status
Imprecise arithmetic operations order (divide-before-multiply)	Medium	Check on finding	Acknowledge

Finding:

✗ AjiraPayFinanceToken._swapAndLiquify(uint256) (AjiraPayFinanceToken.sol:432-459) performs a multiplication on the result of a division:

- $\text{buyBackTreasuryAmount} = \text{leftOverBnb} / \text{totalTreasury} * \text{buyBackTreasuryPercent}$ (AjiraPayFinanceToken.sol#447)

✗ AjiraPayFinanceToken._swapAndLiquify(uint256) (AjiraPayFinanceToken.sol:432-459) performs a multiplication on the result of a division:

- $\text{liquidityTreasuryAmount} = \text{leftOverBnb} / \text{totalTreasury} * \text{liquidityTreasuryPercent}$ (AjiraPayFinanceToken.sol#448)

Recommendation:

Consider ordering multiplication before division.

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#divide-before-multiply>



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Exploit Scenario:

Solidity's integer division truncates. Thus, performing division before multiplication can lead to precision loss.

```
contract A {  
    function f(uint n) public {  
        coins = (oldSupply / n) * interest;  
    }  
}
```

If n is greater than `oldSupply`, `coins` will be zero. For example, with `oldSupply = 5`; $n = 10$, `interest = 2`, `coins` will be zero.

If $(oldSupply * interest / n)$ was used, `coins` would have been 1.

In general, it's usually a good idea to re-arrange arithmetic to perform multiplication before division, unless the limit of a smaller type makes this dangerous.

Alleviation:

Ajira Pay team has Acknowledge this issue.





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SEC-03: Unused state variables (unused-state)

Type	Severity	Location	Status
Unused state variables (unused-state)	Informational	Check on finding	Acknowledge

Finding:

✗ AjiraPayFinanceToken._allowances (AjiraPayFinanceToken.sol:219) is never used in AjiraPayFinanceToken (AjiraPayFinanceToken.sol#199-538)
✗ AjiraPayFinanceToken.devTreasuryPercent (AjiraPayFinanceToken.sol:229) is never used in AjiraPayFinanceToken (AjiraPayFinanceToken.sol#199-538)

Recommendation:

Remove unused state variables.

Reference: <https://github.com/cryptic/slither/wiki/Detector-Documentation#unused-state-variable>



Exploit Scenario:

-

Alleviation:

Ajira Pay team has Acknowledge this issue.



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SEC-04: Comparison to boolean constant (boolean-equal)

Type	Severity	Location	Status
Comparison to boolean constant (boolean-equal)	Informational	Check on finding	Acknowledge

Finding:

✗ AjiraPayFinanceToken._transfer(address,address,uint256)
(AjiraPayFinanceToken.sol:387-419) compares to a boolean constant:

- _isExcludedFromFee[_sender] == true (AjiraPayFinanceToken.sol#415)

✗ AjiraPayFinanceToken._transfer(address,address,uint256)
(AjiraPayFinanceToken.sol:387-419) compares to a boolean constant:

- isInTaxHoliday == true (AjiraPayFinanceToken.sol#416)

Recommendation:

Remove the equality to the boolean constant.

Reference: <https://github.com/cryptic/slither/wiki/Detector-Documentation#boolean-equality>



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Exploit Scenario:

Detects the comparison to boolean constants.

```
contract A {  
    function f(bool x) public {  
        // ...  
        if (x == true) { // bad!  
            // ...  
        }  
        // ...  
    }  
}
```

Boolean constants can be used directly and do not need to be compare to true or false.

Alleviation:

Ajira Pay team has Acknowledge this issue.



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SEC-05: If different pragma directives are used (pragma)

Type	Severity	Location	Status
If different pragma directives are used (pragma)	Informational	Check on finding	Acknowledge

Finding:

✗ Different versions of Solidity are used:

- Version used: ['=0.8.4', '^0.8.0', '^0.8.1']
- =0.8.4 (AjiraPayFinanceToken.sol:2)
- ^0.8.0 (@openzeppelin/contracts/access/AccessControl.sol#4)
- ^0.8.0 (@openzeppelin/contracts/access/IAccessControl.sol#4)
- ^0.8.0 (@openzeppelin/contracts/access/Ownable.sol#4)
- ^0.8.0 (@openzeppelin/contracts/security/ReentrancyGuard.sol#4)
- ^0.8.0 (@openzeppelin/contracts/token/ERC20/ERC20.sol#4)
- ^0.8.0 (@openzeppelin/contracts/token/ERC20/IERC20.sol#4)
- ^0.8.0 (@openzeppelin/contracts/token/ERC20/extensions/IERC20Metadata.sol#4)
- ^0.8.0 (@openzeppelin/contracts/token/ERC20/extensions/draft-IERC20Permit.sol#4)
- ^0.8.0 (@openzeppelin/contracts/token/ERC20/Utils/SafeERC20.sol#4)
- ^0.8.0 (@openzeppelin/contracts/Utils/Context.sol#4)
- ^0.8.0 (@openzeppelin/contracts/Utils/Strings.sol#4)
- ^0.8.0 (@openzeppelin/contracts/Utils/introspection/ERC165.sol#4)
- ^0.8.0 (@openzeppelin/contracts/Utils/introspection/IERC165.sol#4)
- ^0.8.0 (@openzeppelin/contracts/Utils/math/Math.sol#4)
- ^0.8.0 (@openzeppelin/contracts/Utils/math/SignedMath.sol#4)
- ^0.8.0 (erc-payable-token/contracts/token/ERC1363/ERC1363.sol#3)
- ^0.8.0 (erc-payable-token/contracts/token/ERC1363/IERC1363.sol#3)
- ^0.8.0 (erc-payable-token/contracts/token/ERC1363/IERC1363Receiver.sol#3)
- ^0.8.0 (erc-payable-token/contracts/token/ERC1363/IERC1363Spender.sol#3)
- ^0.8.1 (@openzeppelin/contracts/Utils/Address.sol#4)

Recommendation:

Use one Solidity version.

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#different-pragma-directives-are-used>



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Exploit Scenario:

-

Alleviation:

Ajira Pay team has Acknowledge this issue.



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SEC-06: Conformity to Solidity naming conventions (naming-convention)

Type	Severity	Location	Status
Conformity to Solidity naming conventions (naming-convention)	Informational	Check on finding	Acknowledge

Finding:

✗ Parameter AjiraPayFinanceToken.burn(address,uint256)._account (AjiraPayFinanceToken.sol:373) is not in mixedCase
Finding:
✗ Parameter AjiraPayFinanceToken.burn(address,uint256)._amount (AjiraPayFinanceToken.sol:373) is not in mixedCase
✗ Parameter AjiraPayFinanceToken.setBuyBackEnabled(bool)._enabled (AjiraPayFinanceToken.sol:364) is not in mixedCase
✗ Variable AjiraPayFinanceToken.DEAD (AjiraPayFinanceToken.sol:209) is not in mixedCase
✗ Variable AjiraPayFinanceToken._isExcludedFromFee (AjiraPayFinanceToken.sol:217) is not in mixedCase

Recommendation:

Follow the Solidity [naming convention](<https://solidity.readthedocs.io/en/v0.4.25/style-guide.html#naming-conventions>).

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions>



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Exploit Scenario:

Solidity defines a [naming convention](#) that should be followed.

Rule exceptions

- Allow constant variable name/symbol/decimals to be lowercase (ERC20).
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

Follow the Solidity [naming convention](#).

Alleviation:

Ajira Pay team has Acknowledge this issue.



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SWC Findings

ID	Title	Scanning	Result
SWC-100	Function Default Visibility	Complete	No risk
SWC-101	Integer Overflow and Underflow	Complete	No risk
SWC-102	Outdated Compiler Version	Complete	No risk
SWC-103	Floating Pragma	Complete	No risk
SWC-104	Unchecked Call Return Value	Complete	No risk
SWC-105	Unprotected Ether Withdrawal	Complete	No risk
SWC-106	Unprotected SELFDESTRUCT Instruction	Complete	No risk
SWC-107	Reentrancy	Complete	No risk
SWC-108	State Variable Default Visibility	Complete	No risk
SWC-109	Uninitialized Storage Pointer	Complete	No risk
SWC-110	Assert Violation	Complete	No risk
SWC-111	Use of Deprecated Solidity Functions	Complete	No risk
SWC-112	Delegatecall to Untrusted Callee	Complete	No risk
SWC-113	DoS with Failed Call	Complete	No risk

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SWC-114	Transaction Order Dependence	Complete	No risk
SWC-115	Authorization through tx.origin	Complete	No risk
SWC-116	Block values as a proxy for time	Complete	No risk
SWC-117	Signature Malleability	Complete	No risk
SWC-118	Incorrect Constructor Name	Complete	No risk
SWC-119	Shadowing State Variables	Complete	No risk
SWC-120	Weak Sources of Randomness from Chain Attributes	Complete	No risk
SWC-121	Missing Protection against Signature Replay Attacks	Complete	No risk
SWC-122	Lack of Proper Signature Verification	Complete	No risk
SWC-123	Requirement Violation	Complete	No risk
SWC-124	Write to Arbitrary Storage Location	Complete	No risk
SWC-125	Incorrect Inheritance Order	Complete	No risk
SWC-126	Insufficient Gas Griefing	Complete	No risk
SWC-127	Arbitrary Jump with Function Type Variable	Complete	No risk
SWC-128	DoS With Block Gas Limit	Complete	No risk

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SWC-129	Typographical Error	Complete	No risk
SWC-130	Right-To-Left-Override control character (U+202E)	Complete	No risk
SWC-131	Presence of unused variables	Complete	No risk
SWC-132	Unexpected Ether balance	Complete	No risk
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Complete	No risk
SWC-134	Message call with hardcoded gas amount	Complete	No risk
SWC-135	Code With No Effects	Complete	No risk
SWC-136	Unencrypted Private Data On-Chain	Complete	No risk



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Visibility, Mutability, Modifier function testing

Components

Contracts	Libraries	Interfaces	Abstract
1	0	4	0

Exposed Functions

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.

Public	Payable				
78	5				
External	Internal	Private	Pure	View	
63	51	10	10	25	

StateVariables

Total	Public
25	15








Capabilities

Solidity Versions observed	Experimental Features	Can Receive Funds	Uses Assembly	Has Destroyable Contracts
=0.8.4		yes		



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 Transfers ETH	 Low-Level Calls	 DelegateCall	 Uses Hash Functions	 ECRecover	 New/Create/Create2
<input type="text" value="yes"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="yes"/>	<input type="text"/>	<input type="text"/>
 TryCatch	Σ Unchecked				
<input type="text"/>	<input type="text" value="yes"/>				



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Contracts Description Table

Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
IPancakeswap V2Factory	Interface			
L	feeTo	External !		NO !
L	feeToSetter	External !		NO !
L	getPair	External !		NO !
L	allPairs	External !		NO !
L	allPairsLength	External !		NO !
L	createPair	External !	●	NO !
L	setFeeTo	External !	●	NO !
L	setFeeToSetter	External !	●	NO !
IPancakeSwapV2Pair	Interface			
L	name	External !		NO !
L	symbol	External !		NO !













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Contract	Type	Bases		
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 !	🔴	NO !
L	DOMAIN_SEPARATOR	External !		NO !
L	PERMIT_TYPEHASH	External !		NO !
L	nonces	External !		NO !
L	permit	External !	🔴	NO !
L	MINIMUM_LIQUIDITY	External !		NO !
L	factory	External !		NO !
L	token0	External !		NO !

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Contract	Type	Bases		
L	token1	External !		NO !
L	getReserves	External !		NO !
L	price0CumulativeLast	External !		NO !
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 !
IPancakeRouter01	Interface			
L	factory	External !		NO !
L	WETH	External !		NO !

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Contract	Type	Bases		
L	addLiquidity	External !		NO !
L	addLiquidityETH	External !		NO !
L	removeLiquidity	External !		NO !
L	removeLiquidityETH	External !		NO !
L	removeLiquidityWithPermit	External !		NO !
L	removeLiquidityETHWithPermit	External !		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 !		NO !

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Contract	Type	Bases		
L	getAmountIn	External !		NO !
L	getAmountsOut	External !		NO !
L	getAmountsIn	External !		NO !
IPancakeRouter02	Interface	IPancakeRouter01		
L	removeLiquidityETHSupportingFeeOnTransferTokens	External !	●	NO !
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External !	●	NO !
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !	●	NO !
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External !	👤	NO !
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External !	●	NO !
AjiraPayFinanceToken	Implementation	Ownable, ERC1363, AccessControl, ReentrancyGuard		
L		Public !	●	ERC20
L	balanceOf	Public !		NO !
L	totalSupply	Public !		NO !
L	supportsInterface	Public !		NO !

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Contract	Type	Bases		
L	recoverBNB	Public !		onlyRole nonReentrant
L	recoverLostTokensForInvestor	Public !		onlyRole
L	updateTreasury	Public !		onlyRole
L	updateRouterAddress	External !		onlyRole
L	setDeductionFeePercentages	Public !		onlyRole
L	setTreasuryPercentages	Public !		onlyRole
L	setSwapAndLiquifyEnabled	External !		onlyRole
L	excludeFromFee	Public !		onlyRole
L	includeInFee	Public !		onlyRole
L	setMaxTransactionAmount	External !		onlyRole
L	setTaxHolidayEnabled	Public !		onlyRole
L	setTransferFeeEnabled	Public !		onlyRole
L	setBuyBackEnabled	Public !		onlyRole
L	updateMinTokensToLiquify	Public !		onlyRole

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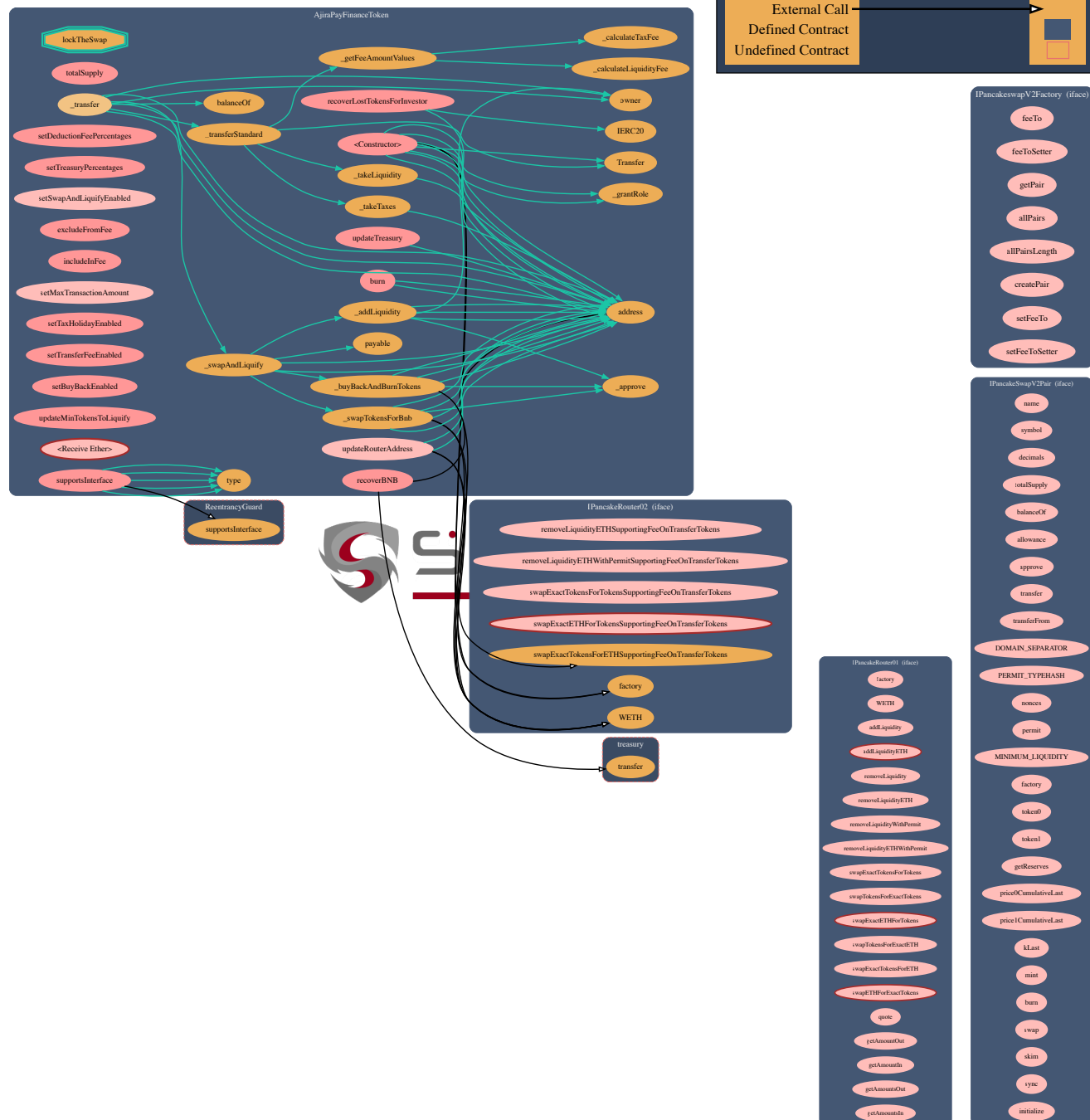
Contract	Type	Bases		
				nonReentrant
L	burn	Public !	🔴	onlyRole
L		External !	💵	NO !
L	_transfer	Internal 🔒	🔴	
L	_transferStandard	Private 🔒	🔴	
L	_swapAndLiquify	Private 🔒	🔴	lockTheSwap
L	_swapTokensForBnb	Private 🔒	🔴	
L	_addLiquidity	Private 🔒	🔴	
L	_buyBackAndBurnTokens	Private 🔒	🔴	
L	_calculateLiquidityFee	Private 🔒		
L	_calculateTaxFee	Private 🔒		
L	_getFeeAmountValues	Private 🔒		
L	_takeLiquidity	Private 🔒	🔴	
L	_takeTaxes	Private 🔒	🔴	

Legend

Symbol	Meaning
🔴	Function can modify state
💵	Function is payable

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Inheritate Function Relation Graph



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UML Class Diagram





MONDAY, FEBRUARY 27, 2023
Ajira Pay Security Assessment

FULL AUDIT REPORT

About SECURI LAB

SECURI LAB is a group of cyber security experts providing cyber security consulting, smart contract security audits, and KYC services.



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