



# SAFU Audit

Smart Contract Auditing

# SAITA KING

## SMART CONTRACT AUDIT



February 24, 2022

# INTRODUCTION

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<b>Client</b>	Saita King
<b>Language</b>	Solidity
<b>Contract address</b>	0xeDe07896F8E42A0Ca835788346cEC175C9165c51
<b>Website</b>	<a href="https://www.saitaking.com/">https://www.saitaking.com/</a>
<b>Telegram</b>	<a href="https://t.me/saitakingtoken">https://t.me/saitakingtoken</a>
<b>Twitter</b>	<a href="https://twitter.com/Saitaking">https://twitter.com/Saitaking</a>

## Description

SAITA KING is an easy-to-play P2E game that combines popular meme coin characteristics with an African masquerade NFTS feature.

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# Approach

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## Audit Details

Our comprehensive audit report provides a full overview of the audited system's architecture, smart contract codebase, and details on any vulnerabilities found within the system.

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## Audit Goals

The audit goal is to ensure that the project is built to protect investors and users, preventing potentially catastrophic vulnerabilities after launch, that lead to scams and rugpulls.

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## Code Quality

Our analysis includes both automatic tests and manual code analysis for the following aspects:

- Exploits
  - Back-doors
  - Vulnerability
  - Accuracy
  - Readability
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## Tools

- Remix IDE
- MythX, Myhrlil
- SWC Registry
- Open Zeppelin Code Analyzer
- Solidity Code Complier

# RISK CLASSIFICATION

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## CRITICAL

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## MEDIUM

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Issues on this level could potentially bring problems and should eventually be fixed.

## MINOR

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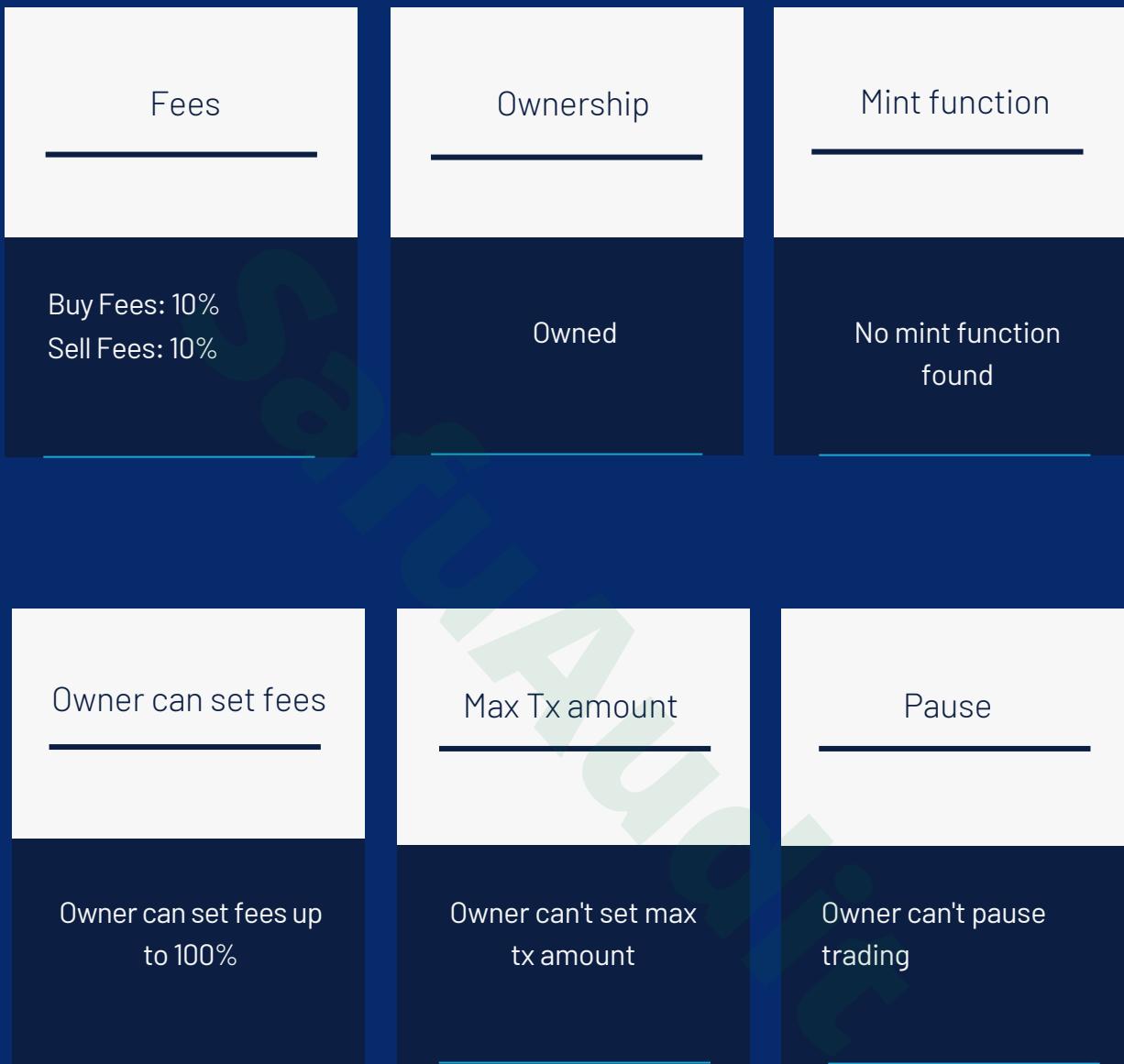
Issues on this level are minor details and warning that can remain unfixed but would be better fixed at some point in the future

## INFORMATIONAL

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

# ABSTRACT



# SWC Attacks

SWC ID	Description	
<b>SWC-100</b>	Function Default Visibility	<b>Passed</b>
<b>SWC-101</b>	Integer Overflow and Underflow	<b>Passed</b>
<b>SWC-102</b>	Outdated Compiler Version	<b>Passed</b>
<b>SWC-103</b>	Floating Pragma	<b>Passed</b>
<b>SWC-104</b>	Unchecked Call Return Value	<b>Passed</b>
<b>SWC-105</b>	Unprotected Ether Withdrawal	<b>Passed</b>
<b>SWC-106</b>	Unprotected SELF-DESTRUCT Instruction	<b>Passed</b>
<b>SWC-107</b>	Re-entrancy	<b>Passed</b>
<b>SWC-108</b>	State Variable Default Visibility	<b>Low</b>
<b>SWC-109</b>	Uninitialized Storage Pointer	<b>Passed</b>
<b>SWC-110</b>	Assert Violation	<b>Passed</b>
<b>SWC-111</b>	Use of Deprecated Solidity Functions	<b>Passed</b>
<b>SWC-112</b>	Delegate Call to Untrusted Callee	<b>Passed</b>
<b>SWC-113</b>	DoS with Failed Call	<b>Passed</b>
<b>SWC-114</b>	Transaction Order Dependence	<b>Passed</b>
<b>SWC-115</b>	Authorization through tx.origin	<b>Passed</b>

<b>SWC-116</b>	Block values as a proxy for time	<b>Passed</b>
<b>SWC-117</b>	Signature Malleability	<b>Passed</b>
<b>SWC-118</b>	Incorrect Constructor Name	<b>Passed</b>
<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>

# MANUAL ANALYSIS

The contract is verified to check if functions do and work as they should and malicious code is not inserted.

	Tested	Result
<b>Transfer</b>	Yes	<b>Passed</b>
<b>Total Supply</b>	Yes	<b>Passed</b>
<b>Buy Back</b>	Yes	<b>N/A</b>
<b>Burn</b>	Yes	<b>N/A</b>
<b>Mint</b>	Yes	<b>N/A</b>
<b>Rebase</b>	Yes	<b>N/A</b>
<b>Pause</b>	Yes	<b>N/A</b>
<b>Blacklist</b>	Yes	<b>N/A</b>
<b>Lock</b>	Yes	<b>N/A</b>
<b>Max Transaction</b>	Yes	<b>N/A</b>
<b>Transfer Ownership</b>	Yes	<b>Passed</b>
<b>Renounce Ownership</b>	Yes	<b>Passed</b>

MANUAL AUDIT

# Important snippets



## Owner can include/exclude from fees

```
function excludeFromFee(address account) public onlyOwner {
    _isExcludedFromFee[account] = true;
}

function includeInFee(address account) public onlyOwner {
    _isExcludedFromFee[account] = false;
}
```

## Owner can set fees up to 100%

```
function setTaxFeePercent(uint256 taxFeeBps) external onlyOwner {
    require(taxFeeBps >= 0 && taxFeeBps <= 10***4, "Invalid bps");
    _taxFee = taxFeeBps;
}

function setLiquidityFeePercent(uint256 liquidityFeeBps)
    external
    onlyOwner
{
    require(
        liquidityFeeBps >= 0 && liquidityFeeBps <= 10***4,
        "Invalid bps"
    );
    _liquidityFee = liquidityFeeBps;
}
```

While it might be required to change the tax in the future, e.g. before listing on an exchange, it should not be possible to set it beyond an agreed upon range.



<b>Website</b>	<a href="https://www.saitaking.com/">https://www.saitaking.com/</a>
<b>Domain Registry</b>	<a href="http://www.namecheap.com">http://www.namecheap.com</a>
<b>Domain Expiry Date</b>	2023-02-21
<b>Response Code</b>	200
<b>SSL Checker and HTTPS Test</b>	Passed
<b>Deprecated HTML tags</b>	Passed
<b>Robots.txt</b>	Passed
<b>Sitemap Test</b>	Passed
<b>SEO Friendly URL</b>	Passed
<b>Responsive Test</b>	Passed
<b>JS Error Test</b>	Passed
<b>Console Errors Test</b>	Passed
<b>Site Loading Speed Test</b>	0.84 seconds - Passed
<b>HTTP2 Test</b>	Passed
<b>Safe Browsing Test</b>	Passed

# DISCLAIMER

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SafuAudit.com is not a financial institution and the information provided on this website does not constitute investment advice, financial advice, trading advice or any other sort of advice. You should not treat any of the website's content as such. Investing in crypto assets carries a high level of risk and does not hold guarantees for not sustaining financial loss due to their volatility.

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The purpose of the audit is to analyse the on-chain smart contract source code, and to provide basic overview of the project.

While we have used all the information available to us for this straightforward investigation, you should not rely on this report only – we recommend proceeding with several independent audits. Be aware that smart contracts deployed on a blockchain aren't secured enough against external vulnerability, or a hack. Be aware that active smart contract owner privileges constitute an elevated impact to smart contract's safety and security. Therefore, SafuAudit 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.

# AUDIT RESULTS

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## CRITICAL

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No critical severity issues have been found.

## MEDIUM

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No medium severity issues have been found.

## MINOR

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It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal.

## INFORMATIONAL

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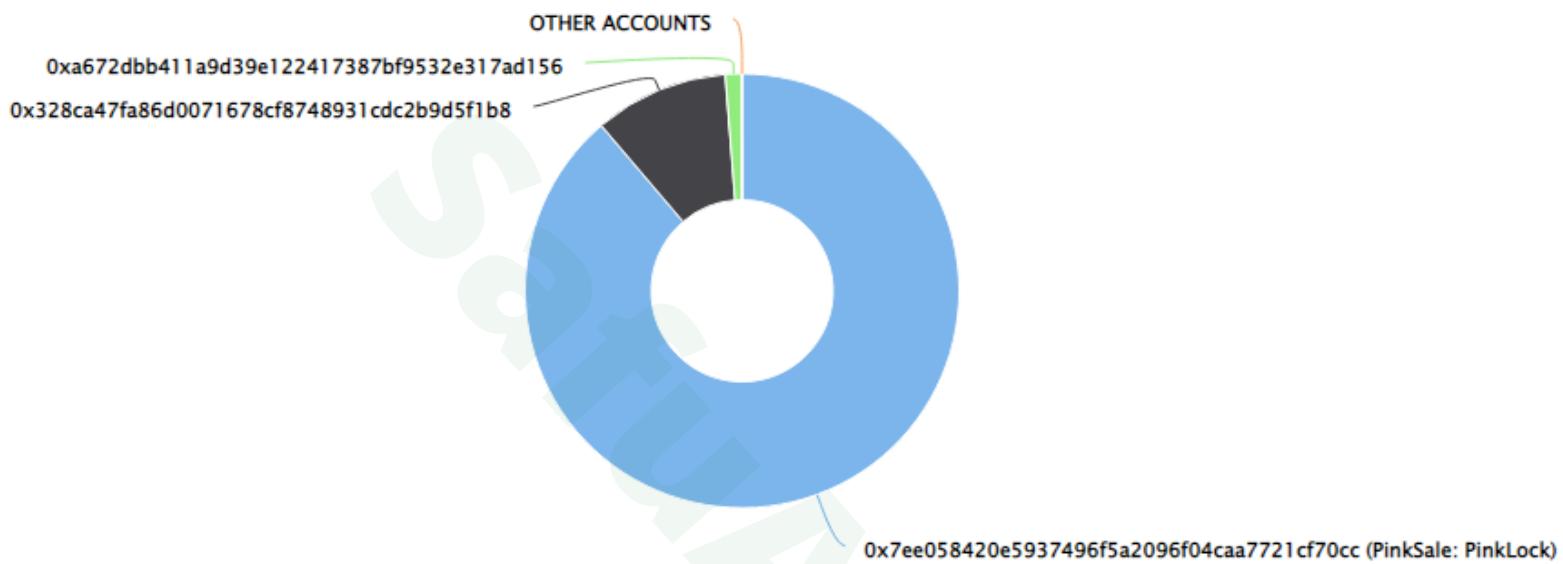
The standard audit model does not offer suggestions and consulting for improvements of efficacy.

# SUMMARY

## Top 10 holders

SAITA KING Top 100 Token Holders

Source: BscScan.com



Rank	Address	Quantity (Token)	Percentage
1	0x7ee058420e5937496f5a2096f04caa7721cf70cc (PinkSale: PinkLock)	887,724,000,000	88.7724%
2	0x328ca47fa86d0071678cf8748931cdc2b9d5f1b8	100,000,000,000	10.0000%
3	0xa672dbb411a9d39e122417387bf9532e317ad156	12,276,000,000	1.2276%

## Conclusion

Project Saita King does not contain any severe issues or risk characteristics. SafuAudit has tested the security based on manual and automated tests. Please note that we don't offer any warranties for business model.