

SKELETON ECOSYSTEM

SMART CONTRACT AUDIT



Project X Presale Contract

0x9ba8648fF0B7ebbF584b879c9aD81977F27D55df



Table of Contents

Table of Contents	1
Disclaimer	2
Overview	3
Creation/Audit Date	3
Verified Socials	3
Contract Functions Analysis	4
Contract Safety and Weakness	6
Detected Vulnerability Description	9
Contract Flow Graph	10
Contract Interaction Graph	11
Inheritance Graph	12
Contract Descriptions	13
Audit Scope	15

Global Disclaimer

This document serves as a disclaimer for the crypto smart contract audit conducted by Skeleton Ecosystem. The purpose of the audit was to review the codebase of the smart contracts for potential vulnerabilities and issues. It is important to note the following:

Limited Scope: The audit is based on the code and information available up to the audit completion date. It does not cover external factors, system interactions, or changes made after the audit. The audit itself can not guarantee 100% safety and can not detect common scam methods like farming and developer sell-out.

No Guarantee of Security: While we have taken reasonable steps to identify vulnerabilities, it is impossible to guarantee the complete absence of security risks or issues. The audit report provides an assessment of the contract's security as of the audit date.

Continued Development: Smart contracts and blockchain technology are evolving fields. Updates, forks, or changes to the contract post-audit may introduce new risks that were not present during the audit.

Third-party Code: If the smart contract relies on third-party libraries or code, those components were not thoroughly audited unless explicitly stated. Security of these dependencies is the responsibility of their respective developers.

Non-Exhaustive Testing: The audit involved automated analysis, manual review, and testing under controlled conditions. It is possible that certain vulnerabilities or issues may not have been identified.

Risk Evaluation: The audit report includes a risk assessment for identified vulnerabilities. It is recommended that the development team carefully reviews and addresses these risks to mitigate potential exploits.

Not Financial Advice: This audit report is not intended as financial or investment advice. Decisions regarding the use, deployment, or investment in the smart contract should be made based on a comprehensive assessment of the associated risks.

By accessing and using this audit report, you acknowledge and agree to the limitations outlined above. Skeleton Ecosystem and its auditors shall not be held liable for any direct or indirect damages resulting from the use of the audit report or the smart contract itself.

Please consult with legal, technical, and financial professionals before making any decisions related to the smart contract.

Overview

Contract Name	ProjectXmemePolygon_Presale
Ticker/Symbol	
Blockchain	Polygon Chain ERC20
Contract Address	0x9ba8648fF0B7ebbF584b879c9aD81977F27D55df
Creator Address	0xb3b6F71A72a47A6EE7deF98381c1035cB1187B82
Current Owner Address	
Contract Explorer	https://polygonscan.com/address/0x9ba8648ff0b7ebbf584b879c9ad81977f27d55df
Compiler Version	v0.8.18+commit.87f61d96
License	MIT
Optimisation	No with 200 Runs
Total Supply	
Decimals	

Creation/Audit

Contract Deployed	28 Sept 2023
Audit Created	03 Oct 2023
Audit Update	V 1.0

Verified Socials

Website	https://0x0me.me
Telegram	https://t.me/project0x0
Twitter (X)	https://x.com/Project_0X0

Contract Function Analysis



Pass



Attention Item

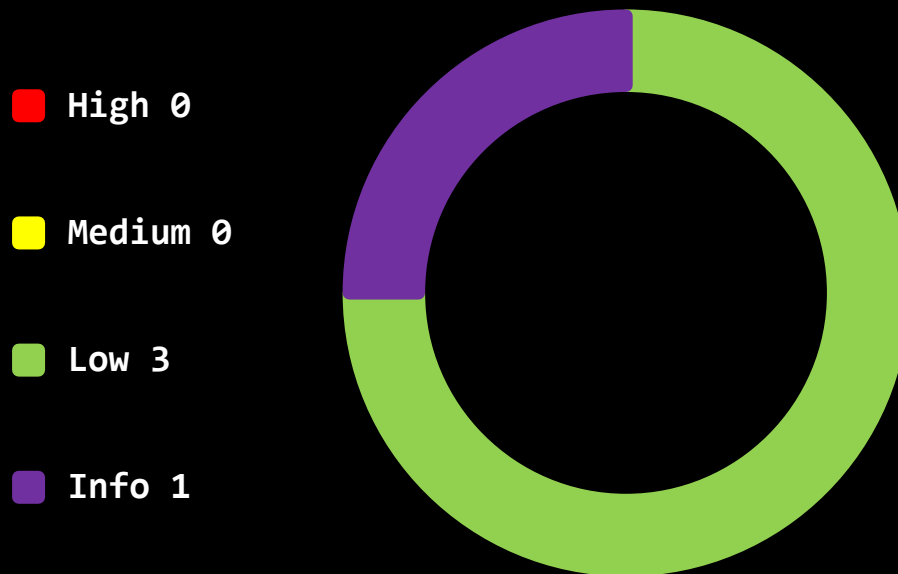



Risky Item


Contract Verified		The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.
Contract Ownership		0xb3b6F71A72a47A6EE7deF98381c1035cB1187B82
Hidden Owner Analysis		No authorised hidden owner found. For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been abandoned. Fake renounce
Honeypot Analyse		Contributed tokens can be claimed
Trading Disable Functions		No Trading suspendable function found. If a suspendable code is included, the token maybe neither be bought or sold (honeypot risk). If contract is renounced this function can't be used
Proxy Contract		Not a Proxy Contract. The proxy contract means contract owner can modify the function of the token and possibly effect the price. The Owner is not the creator but the creator may have authorisation to change functions.
Mint Function		No mint Function found Mint function is transparent or non-existent. Hidden mint functions may increase the amount of tokens in circulation and effect the price of the token. Owner can mint new tokens and sell.
Blacklist Function		Can not Blacklist contributors to claim their tokens


Contract Security


Total Findings: 4



 **High Severity Issues:** High possibility to cause problems, need to be resolved.

 **Medium Severity Issue:** Will likely cause problems, recommended to resolve.

 **Low Severity Issues:** Won't cause problems, but for improvement purposes could be adjusted.

 **Informational Severity Issues:** Not harmful in any way, information for the developer team.

Contract Security

List of Found Issues

■ **High severity Issues: (0)**

■ **Medium severity issues: (0)**

■ **Low severity issues: (3)**

- Missing Events
- Floating Pragma
- Long Number Literals

■ **Informational severity issues: (1)**

- Public Functions Should be Declared External

Contract Weakness Classisication

THE SMART CONTRACT WEAKNESS CLASSIFICATION REGISTRY (SWC REGISTRY) IS AN IMPLEMENTATION OF THE WEAKNESS CLASSIFICATION SCHEME PROPOSED IN EIP-1470. IT IS LOOSELY ALIGNED TO THE TERMINOLOGIES AND STRUCTURE USED IN THE COMMON WEAKNESS ENUMERATION (CWE) WHILE OVERLAYING A WIDE RANGE OF WEAKNESS VARIANTS THAT ARE SPECIFIC TO SMART CONTRACTS.

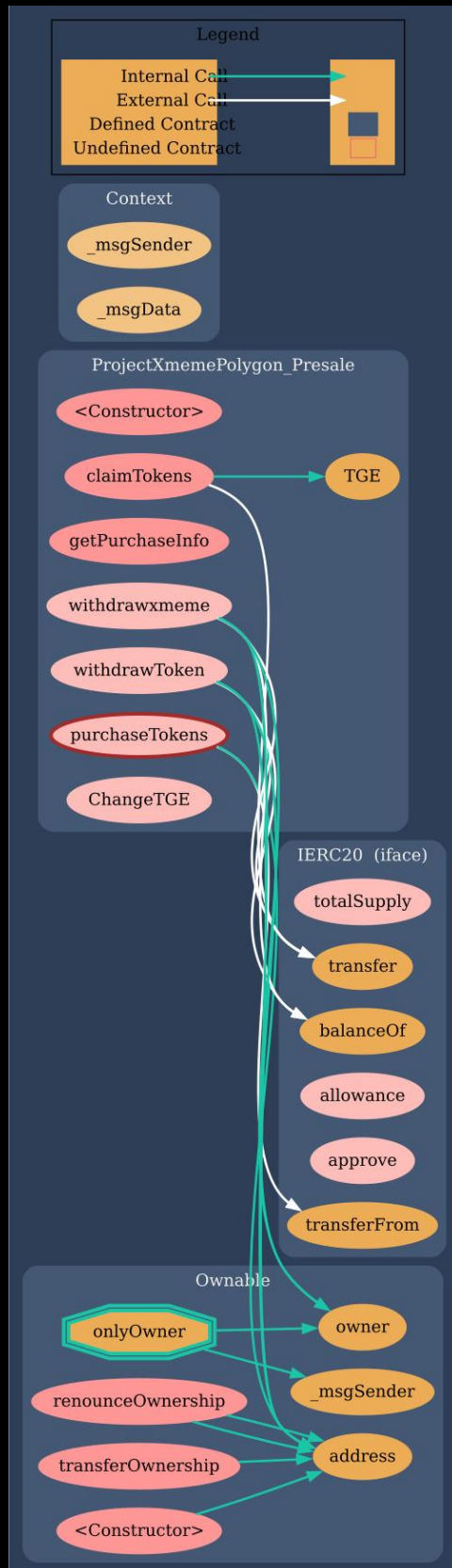
ID	Description	AI	Manual	Result
SWC-100	Function Default Visibility	Passed	Passed	Passed
SWC-101	Integer Overflow and Underflow	Passed	Passed	Passed
SWC-102	Outdated Compiler Version	Passed	Passed	Passed
SWC-103	Floating Pragma	Low	Passed	Passed
SWC-104	Unchecked Call Return Value	Passed	Passed	Passed
SWC-105	Unprotected Ether Withdrawal	Passed	Passed	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed	Passed	Passed
SWC-107	Reentrancy	Passed	Passed	Passed
SWC-108	State Variable Default Visibility	Passed	Passed	Passed
SWC-109	Uninitialized Storage Pointer	Passed	Passed	Passed
SWC-110	Assert Violation	Passed	Passed	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed	Passed	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed	Passed	Passed
SWC-113	DoS with Failed Call	Passed	Passed	Passed
SWC-114	Transaction Order Dependence	Passed	Passed	Passed
SWC-115	Authorization through tx.origin	Passed	Passed	Passed
SWC-116	Block values as a proxy for time	Passed	Passed	Passed
SWC-117	Signature Malleability	Passed	Passed	Passed
SWC-118	Incorrect Constructor Name	Passed	Passed	Passed
SWC-119	Shadowing State Variables	Passed	Passed	Passed

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

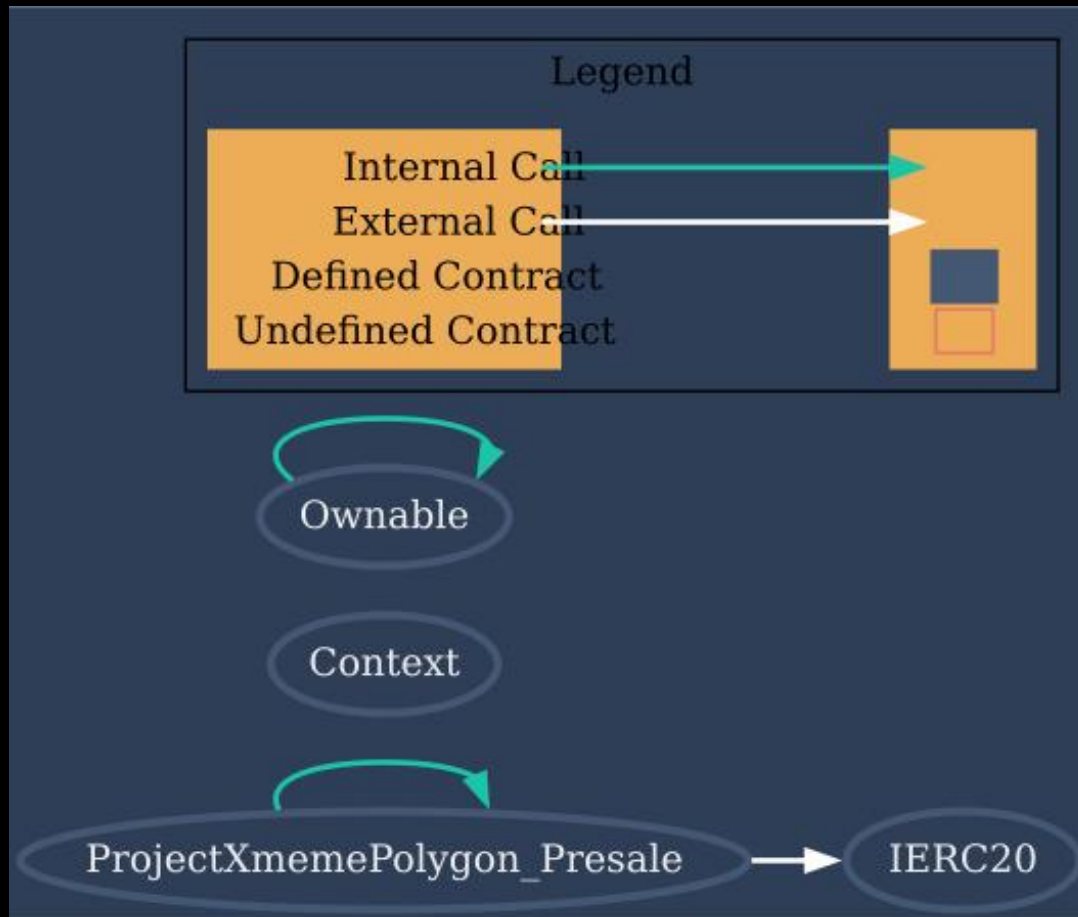
Detected High and Medium Severity Vulnerability Description

No High- Medium Severity Issues Found.

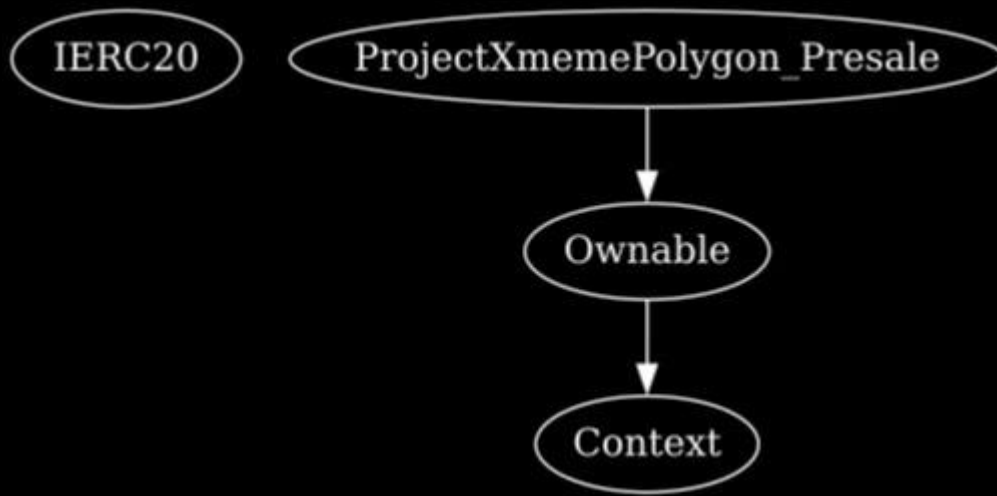
Contract Flow Graph





























Interaction Graph



Inheritance Graph



Contract Functions

Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
L	totalSupply	External 		NO 
L	balanceOf	External 		NO 
L	transfer	External 		NO 
L	allowance	External 		NO 
L	approve	External 		NO 
L	transferFrom	External 		NO 
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	Internal 		
Ownable	Implementation	Context		
L		Public 		NO 
L	owner	Public 		NO 
L	renounceOwnership	Public 		onlyOwner
L	transferOwnership	Public 		onlyOwner
ProjectXmeme Polygon_Presale	Implementation	Ownable		

Contract	Type	Bases		
L		Public 		NO 
L	purchaseTokens	External 		NO 
L	getPurchaseInfo	Public 		NO 
L	claimTokens	Public 		NO 
L	TGE	Public 		NO 
L	withdrawToken	External 		onlyOwner
L	withdrawxmeme	External 		onlyOwner
L	ChangeTGE	External 		onlyOwner



Function
can modify
state



Function
is payable

Audit Scope

Audit Method.

Our smart contract audit is an extensive methodical examination and analysis of the smart contract's code that is used to interact with the blockchain. Goal: discover errors, issues and security vulnerabilities in the code. Findings getting reported and improvements getting suggested.

Automatic and Manual Review

We are using automated tools to scan functions and weaknesses of the contract. Transfers, integer over-undeflow checks such as all CWE events.

Tools we use:

Visual Studio Code

CWE

SWC

Solidity Scan

SVD

In manual code review our auditor looking at source code and performing line by line examination. This method helps to clarify developer's coding decisions and business logic.

Skeleton Ecosystem

<https://skeletonecosystem.com>

<https://github.com/SkeletonEcosystem/Audits>

