

# expelee

Building the Futuristic **Blockchain Ecosystem**

## Audit Report FOR



## Doge Games

# OVERVIEW

Expelee team has performed a line-by-line manual analysis and automated review of the smart contract.

The smart contract was analysed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks. According to the smart contract audit :

 <b>Audit Result</b>	<b>Passed</b>
 <b>KYC Verification</b>	<b>No KYC</b>
 <b>Audit Date</b>	<b>8 Sep 2022</b>

*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.*

**- Team Expelee**



# PROJECT DESCRIPTION

## Dogegames

Dogegames Is A Decentralized Mobile Gaming Protocol. Dogegames is proud to provide the first inclusive game field social platform, connecting gamers and game publishers worldwide at one platform where they can play, trade, & share all gaming items & experiences in a secure, transparent and accurate manner on the Dogechain Network.

 dogegames.co

 dogegamesco

 dogegamesco

*It's always good to check the social profiles of the project,  
before making your investment.*

**- Team Expelee**

# CONTRACT DETAILS

Contract Name

**Dogegames**

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Symbol

**\$DGC**

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Contract Address

**0x2A08296aBE6645b7dbAC8BF13a8fC37a0FD3428a**

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Network

**DOGECHAIN  
(ERC-20 TOKEN)**

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Language

**Solidity**

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Total Supply

**90,000,000,000 DGC**

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Decimals

**18**

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Compiler

**v0.8.7+commit.e28d00a7**

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License

**Default license**

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# AUDIT METHODOLOGY



## 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.



## 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.



## Code Quality

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

- Exploits
- Back-doors
- Vulnerability
- Accuracy
- Readability



## Tools

- DE
- Open Zeppelin
- Code Analyzer
- Solidity Code
- Compiler
- Hardhat

# VULNERABILITY CHECKLIST

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions & reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



# RISK CLASSIFICATION

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

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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 Risk

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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.

## Low Risk

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Issues on this level are minor details and warning that can remain unfixed.

## Informational

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



# MANUAL AUDIT

## Simple Overview:

- Owner is not able to set taxes more than 3% on buys / sells
- Owner is not able to set a max transaction amount
- Owner is not able to blacklist wallets
- Owner is **not** able to disable trading
- Owner is able to **mint** new tokens (read team explanation)

## Centralization Issues

- **High** - owner is able to use **setRewards** to set mintable rewards for an arbitrary wallet, wallet owner is able to then mint this rewards to his wallet using. max supply is **150B** and no mints can happen after reaching this number

```
function setReward(address account, uint256 amount) external onlyOwner {
    require(amount > 0, ' amount must be greater than zero');
    require(super.totalSupply() + amount < maxSupply, 'it can not be
more than 150 Billion');
    uint256 percentageToUse = getPercentageUsed();
    uint256 rewardAmount = amount - (( amount * percentageToUse ) / 100 );

    if(super.totalSupply() + rewardAmount >= _maxSupply ){
        rewardAmount = _maxSupply - super.totalSupply();
        rewards[account] += rewardAmount;
        hasReached = true;
    }

    if(!hasReached){
        rewards[account] += rewardAmount;
    }
}
```

## Doge Games Team Explanation:

'Every gamers will earn a claimable reward while playing any of the ecosystem P2E games. After every 2,000,000,000 new reward has been claimed by gamers, the reward rate will be reduced by 15% until a total reward reduction rate of 90%.

After being rewarded in the game, the gamer can go ahead to claim the reward."



# MANUAL AUDIT

## Gas Optimizations

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- ♦ **GO-1:** change this functions to external, **payOtherFee**, **payTransactionFee**, **setTransactionFeeAddress**, **setTranasactionFee**, **burn**, **mint**

## Suggestions

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- ♦ **S-1:** emit an event for this functions: **setTranasactionFee**, **setTransactionFeeAddress**, **mint**

## ABOUT EXPELEE

Expelee is a product-based aspirational Web3 Start-up. Coping up with numerous solutions for blockchain Security and constructing a Web3 Ecosystem from Deal making platform to developer hosting open platform, while also developing our own commercial and sustainable blockchain.

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All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment. Team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document.

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