

Building the Futuristic Blockchain Ecosystem

SECURITY AUDIT REPORT

PEPE DADDY AI



TOKEN OVERVIEW

Risk Findings

Severity	Found	
High	2	
Medium	0	
• Low	1	
Informational	3	

Centralization Risks

Owner Privileges	Description
Can Owner Set Taxes >25% ?	Not Detected
Owner needs to enable trading?	Yes, owner needs to enable trades
Can Owner Disable Trades ?	Not Detected
Can Owner Mint?	Not Detected
Can Owner Blacklist ?	Not Detected
Can Owner set Max Wallet amount?	Not Detected
Can Owner Set Max TX amount?	Not Detected



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OVERVIEW

The 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:

Audit Date	12 March 2024	
Audit Result	Passed with High Risk	



CONTRACT DETAILS

Token Address: 0x37737c90B41B3259E9434a740DcE01E5315551E1

Name: PEPE DADDY AI

Symbol: PEPEDADDY-AI

Decimals: 18

Network: BSC

Token Type:BEP-20

Owner: 0x0448A04740B40bF62258803d960759E157142b37

Deployer: 0xD345c98F1FbEA38FeC133B745B8D852993E4c116

Token Supply: 1000000

Checksum: A2032c616934aeb47e6039f76b20d212

Testnet:

https://testnet.bscscan.com/address/0x8a8ae46b074b4cf40a5d5a 7668d176693591bbfc#code



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 CHECKS

Design Logic	Passed
Compiler warnings	Passed
Private user data leaks	Passed
Timestamps 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 Zepplin module	Passed



RISK CLASSIFICATION

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and acces 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

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

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

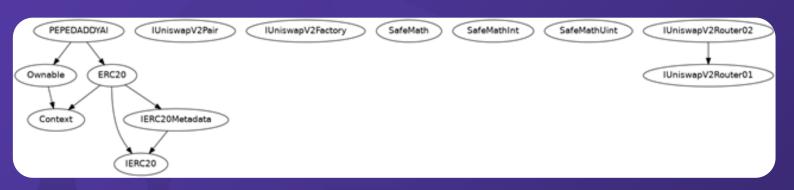
Issues on this level are minor details and warning that can remain unfixed.

Informational

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



INHERITANCE TREES





STATIC ANALYSIS

A static analysis of the code was performed using Slither. No issues were found.

```
INFO:Detectors:

PEPEDADDYAI_transfer(address_address_uint256) (PEPEDADDYAI_sol#1068-1144) performs a multiplication on the result of a division:

- fees = amount.mul(transferTotalFees).div(1080) (PEPEDADDYAI_sol#1130)

- tokensForLiquidity += fees * transferLiquidityFee / transferTotalFees (PEPEDADDYAI_sol#1131)

PEPEDADDYAI_transfer(address_address_uint256) (PEPEDADDYAI_sol#1130)

- fees = amount.mul(transferTotalFees).div(1080) (PEPEDADDYAI_sol#1130)

- tokensForMarketing += fees * transferMarketingFee / transferTotalFees (PEPEDADDYAI_sol#1132)

PEPEDADDYAI_transfer(address_address_uint256) (PEPEDADDYAI_sol#1123)

- tokensForLiquidity += fees * buyLiquidityFee / buyTotalFees (PEPEDADDYAI_sol#1120)

PEPEDADDYAI_transfer(address_address_uint256) (PEPEDADDYAI_sol#1123)

- tokensForLiquidity += fees * buyHarketingFee / buyTotalFees (PEPEDADDYAI_sol#1125)

PEPEDADDYAI_transfer(address_address_uint256) (PEPEDADDYAI_sol#1123)

- tokensForMarketing += fees * buyHarketingFee / buyTotalFees (PEPEDADDYAI_sol#1125)

PEPEDADDYAI_transfer(address_address_uint256) (PEPEDADDYAI_sol#1115)

- tokensForLiquidity += fees * elliquidityFee / sellTotalFees (PEPEDADDYAI_sol#1116)

PEPEDADDYAI_transfer(address_address_uint256) (PEPEDADDYAI_sol#1115)

- tokensForLiquidity += fees * sellMarketingFee / sellTotalFees (PEPEDADDYAI_sol#1116)

PEPEDADDYAI_transfer(address_address_uint256) (PEPEDADDYAI_sol#1115)

- tokensForLiquidity += fees * sellMarketingFee / sellTotalFees (PEPEDADDYAI_sol#1117)

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

INFO:Detectors:

Reentrancy in PEPEDADDYAI_smapBack() (PEPEDADDYAI_sol#1186-1226):

External calls:

- swapTokensForEth(amountToSwapForEth) (PEPEDADDYAI_sol#1288)

- uniswapCyBouter_wapaExactTokensForEthSupportingFeeOnTransferTokens(tokenAmount_0.path_address(this).block.timest
                                                            externat carts.
- smapTokensForEth(amountToSmapForETH) (PEPEDADDYAI.sol#1208)
- unismapVZRouter.swapExactTokensForETHSupportingFeeOnTransferTokens(tokenAmount,0,path,address(this),block.timestamp) (PEPEDADDYAI.sol#1156
  State variables written after the call(s):

- tokensForLiquidity = 0 (PEPEDADDYAI.sol#1216)

PEPEDADDYAI.tokensForLiquidity (PEPEDADDYAI.sol#889) can be used in cross function reentrancies:

- PEPEDADDYAI.tokensForLiquidity (PEPEDADDYAI.sol#889) can be used in cross function reentrancies:

- PEPEDADDYAI.tokensForLiquidity (PEPEDADDYAI.sol#1181-1184)

- PEPEDADDYAI.swapBack() (PEPEDADDYAI.sol#1186-1226)

- PEPEDADDYAI.tokensForLiquidity (PEPEDADDYAI.sol#889)

- tokensForMarketing = 0 (PEPEDADDYAI.sol#888) can be used in cross function reentrancies:

- PEPEDADDYAI.tokensForMarketing (PEPEDADDYAI.sol#888) can be used in cross function reentrancies:

- PEPEDADDYAI.tokensForMarketing (PEPEDADDYAI.sol#888)

- PEPEDADDYAI.swapBack() (PEPEDADDYAI.sol#1181-1184)

- PEPEDADDYAI.swapBack() (PEPEDADDYAI.sol#1186-1226)

- PEPEDADDYAI.tokensForMarketing (PEPEDADDYAI.sol#888)

Reference: https://github.com/crytic/slither/wiki/Detector-DocumentationFreentrancy-vulnerabilities-1
         -1162)
     PEPEDADDYAL.constructor()._owner (PEPEDADDYAL.sol#920) shadows:

- Ownable._owner (PEPEDADDYAL.sol#920) (state variable)

PEPEDADDYAL.constructor().totalSupply (PEPEDADDYAL.sol#924) shadows:

- ERC20.totalSupply() (PEPEDADDYAL.sol#241-243) (function)

- IERC20.totalSupply() (PEPEDADDYAL.sol#91) (function)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#local-variable-shadowing
    PEPEDADDYAI.updateBuyFees(uint256, uint256) (PEPEDADDYAI.sol#1821-1826) should emit an event for:

- buyMarketingFee = _marketingFee (PEPEDADDYAI.sol#1821)

- buyIquidityFee = _liquidityFee (PEPEDADDYAI.sol#1823)

- buyTotalFees = buyMarketingFee + buyLiquidityFee (PEPEDADDYAI.sol#1824)

PEPEDADDYAI.updateSellFees(uint256, uint256) (PEPEDADDYAI.sol#1828-1833) should emit an event for:

- sellMarketingFee = _marketingFee (PEPEDADDYAI.sol#1829)

- sellIquidityFee = _liquidityFee (PEPEDADDYAI.sol#1838)

- sellTotalFees = sellMarketingFee + sellLiquidityFee (PEPEDADDYAI.sol#1831)

PEPEDADDYAI.updateTransferFees(uint256, uint256) (PEPEDADDYAI.sol#1836) should emit an event for:

- transferMarketingFee = _marketingFee (PEPEDADDYAI.sol#1836)

- transferIquidityFee = _liquidityFee (PEPEDADDYAI.sol#1837)

- transferIquidityFee = _liquidityFee (PEPEDADDYAI.sol#1837)

- transferIotalFees = transferMarketingFee + transferIquidityFee (PEPEDADDYAI.sol#1838)

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#missing-events-arithmetic

INFO:Detectors:
     INFO:Detectors:
                                                                       - marketingWallet = newMarketingWallet (PEPEDADDYAI.sol#1061)
https://github.com/crytic/slither/wiki/Detector-Documentation#missing-zero-address-validation
    INFO:Detectors:

PEPEDADDYAI.swapTokensForEth(uint256) (PEPEDADDYAI.sol#1146-1164) has external calls inside a loop: path[1] = uniswapV2Router.WETH() (PEPEDADDYAI.sol#1151)

PEPEDADDYAI.swapTokensForEth(uint256) (PEPEDADDYAI.sol#1146-1164) has external calls inside a loop: uniswapV2Router.swapExactTokensForETHSupportingFeeOnTran

sferTokens(tokenAmount, 0, path, address(this), block.timestamp) (PEPEDADDYAI.sol#1156-1162)

PEPEDADDYAI.addLiquidity(uint256, uint256) (PEPEDADDYAI.sol#1166-1179) has external calls inside a loop: uniswapV2Router.addLiquidityETH[value: ethAmount](ad

dress(this), tokenAmount, 0, 0, deadAddress, block.timestamp) (PEPEDADDYAI.sol#1171-1178)

PEPEDADDYAI.swapBack() (PEPEDADDYAI.sol#1260) has external calls inside a loop: (success, None) = address(marketingWallet).call{value: address(this).bal

ance}() (PEPEDADDYAI.sol#1224)

References: bttm://sith.au/sol#12240
```



STATIC ANALYSIS

```
INFO:Detectors:

Context__msgData() (PEPEDADDYAI.sol#14-17) is never used and should be removed

ERC20__burn(address,uint256) (PEPEDADDYAI.sol#02-410) is never used and should be removed

SafeMath.mod(uint256,uint256) (PEPEDADDYAI.sol#579-581) is never used and should be removed

SafeMath.mod(uint256,uint256) (PEPEDADDYAI.sol#595-598) is never used and should be removed

SafeMathInt.abs(int256) (PEPEDADDYAI.sol#03-7060) is never used and should be removed

SafeMathInt.add(int256,int256) (PEPEDADDYAI.sol#694-698) is never used and should be removed

SafeMathInt.mul(int256,int256) (PEPEDADDYAI.sol#694-669) is never used and should be removed

SafeMathInt.mul(int256,int256) (PEPEDADDYAI.sol#662-669) is never used and should be removed

SafeMathInt.subfint256,int256) (PEPEDADDYAI.sol#685-689) is never used and should be removed

SafeMathInt.toUint256Safe(int256) (PEPEDADDYAI.sol#085-689) is never used and should be removed

SafeMathInt.toUint256Safe(int256) (PEPEDADDYAI.sol#716-720) is never used and should be removed

SafeMathVint.toUint256Safe(uint256) (PEPEDADDYAI.sol#716-720) is never used and should be removed

SafeMathVint.toUint256Safe(uint256) (PEPEDADDYAI.sol#716-720) is never used and should be removed
                                                                        4 is not recommended for deployment
https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity
          Low level call in PEPEDADDYAI.swapBack() (PEPEDADDYAI.sol#1186-1226):
- (success,None) = address(marketingMallet).call{value: address(this).balance}() (PEPEDADDYAI.sol#1224)
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#low-level-calls
                                                                   IUniswapV2Pair.DOMAIN_SEPARATOR() (PEPEDADDYAI.sol#35) is not in mixedCase
       Function IUniswapV2Pair.DOMAIN_SEPARATOR() (PEPEDADDYAI.sol#35) is not in mixedCase
Function IUniswapV2Pair.PERMIT_TYPEHASH() (PEPEDADDYAI.sol#35) is not in mixedCase
Function IUniswapV2Pair.MINIMUM_LIQUIDITY() (PEPEDADDYAI.sol#33) is not in mixedCase
Function IUniswapV2Pair.MINIMUM_LIQUIDITY() (PEPEDADDYAI.sol#33) is not in mixedCase
Function IUniswapV2Router@1.WETH() (PEPEDADDYAI.sol#30) is not in capWords
Event PEPEDADDYAI.marketingMalletUpdated(address, address) (PEPEDADDYAI.sol#90) is not in CapWords
Parameter PEPEDADDYAI.updateBuyFees(uint256, uint256)._marketingFee (PEPEDADDYAI.sol#3021) is not in mixedCase
Parameter PEPEDADDYAI.updateSellFees(uint256, uint256)._marketingFee (PEPEDADDYAI.sol#3028) is not in mixedCase
Parameter PEPEDADDYAI.updateSellFees(uint256, uint256)._marketingFee (PEPEDADDYAI.sol#3028) is not in mixedCase
Parameter PEPEDADDYAI.updateTransferFees(uint256, uint256)._marketingFee (PEPEDADDYAI.sol#3035) is not in mixedCase
Parameter PEPEDADDYAI.updateTransferFees(uint256, uint256)._liquidityFee (PEPEDADDYAI.sol#3035) is not in mixedCase
                  dundant expression "this (PEPEDADDYAI.sol#15)" inContext (PEPEDADDYAI.sol#9-18)
eference: https://github.com/crytic/slither/wiki/Detector-Documentation#redundant-statements
```

INFO:Detectors:
Redundant expression "this (PEPEDADDYAI.sol#15)" inContext (PEPEDADDYAI.sol#9-18)
Reference: https://github.com/crytic/slither/miki/Detector-Documentation#redundant

Variable IUnismapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountADesired (PEPEDADDYAI.sol#731) is too simila r to IUnismapV2Router01.addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256).amountBDesired (PEPEDADDYAI.sol#732) Reference: https://github.com/crytic/slither/miki/Detector-Documentation#variable-names-too-similar

rs: MAX_INT256 (PEPEDADOYAI.sol#657) is never used in SafeMathInt (PEPEDADOYAI.sol#655-713) ttps://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable

INFO:Slither:PEPEDADDYAI.sol analyzed (13 contracts with 93 detectors), 61 result(s) found



TESTNET VERSION

1- Approve (passed):

https://testnet.bscscan.com/tx/0xfd0c2d2f2a0d2a8e3e511a928765112e03be6b5d3151380bf369 218e90db0ae8

2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0xdb77c3cc2d5034e82bacc9797630adf78f7377644769fac35ffbcc657a915378

3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0x2c2ddc2e16942de008e4eb87c5dbd8e362ec128e3ae20a3b966327c098404875

4- Enable Trading (passed):

https://testnet.bscscan.com/tx/0xdb141738e2b3a8475efc1c7033036142fe264076f410f2349f7144 fe994802e6

5- Update Marketing Wallet (passed):

https://testnet.bscscan.com/tx/0xf280fbab1e2ad6d10f205e36c943a3ab65cf582315a03cabaa8b549cd51ef7d0

6- Update Buy Fees (passed):

https://testnet.bscscan.com/tx/0xec3f1f75899840b540596de6d1ef720164ec73d052f88195e980fa46cca1aa4e

7- Update Sell Fees (passed):

https://testnet.bscscan.com/tx/0x583f432ff0b8345e2863c56b71f219c37bf3bd2c7235d5212954 06dfa282be60



MANUAL REVIEW

Severity Criteria

Expelee assesses the severity of disclosed vulnerabilities according to methodology based on OWASP standarts.

Vulnerabilities are dividend into three primary risk categroies: High

Medium

Low

High-level considerations for vulnerabilities span the following key areas when conducting assessments:

- Malicious input handling
- Escalation of privileges
- Arithmetic
- Gas use

Overall Risk Severity							
Impact	HIGH	Medium	High	Critical			
	MEDIUM	Low	Medium	High			
	LOW	Note	Low	Medium			
		LOW	MEDIUM	HIGH			
	Likelihood						



HIGH RISK FINDING

Centralization – Enabling Trades

Severity: High

function: Enable Trading

Status: Open

Overview:

The OpenTrading function permits only the contract owner to activate trading capabilities. Until this function is executed, no investors can buy, sell, or transfer their tokens. This places a high degree of control and centralization in the hands of the contract owner.

```
function enableTrading() external onlyOwner {
  tradingActive = true;
  swapEnabled = true;
}
```

Suggestion

To reduce centralization and potential manipulation, consider one of the following approaches:

1.Automatically enable trading after a specified condition, such as the completion of a presale, is met.

2.If manual activation is still desired, consider transferring the ownership of the contract to a trustworthy, third-party entity like a certified "PinkSale Safu" developer. This can give investors more confidence in the eventual activation of trading capabilities, mitigating concerns of potential bad-faith actions by the original owner.



HIGH RISK FINDING

Centralization – Missing Require Check

Severity: High

function: Update Marketing Wallet

Status: Open

Overview:

The owner can set any arbitrary address excluding zero address as this is not recommended because if the owner sets the address to the contract address, then the ETH will not be sent to that address and the transaction will fail and this will lead to a potential honeypot in the contract.

```
function updateMarketingWallet(address
newMarketingWallet) external onlyOwner {
emit marketingWalletUpdated(newMarketingWallet,
marketingWallet);
  marketingWallet = newMarketingWallet;
}
```

Suggestion

It is recommended that the address should not be able to be set as a contract address.



LOW RISK FINDING

Centralization – Missing Events

Severity: Low

function: Missing Events

Status: Open

Overview:

They serve as a mechanism for emitting and recording data onto the blockchain, making it transparent and easily accessible.

```
function updateBuyFees(uint256 _ marketingFee, uint256
 liquidityFee) external onlyOwner {
 buyMarketingFee = _marketingFee;
 buyLiquidityFee = _liquidityFee;
 buyTotalFees = buyMarketingFee + buyLiquidityFee;
require(buyTotalFees <= 10, "Must keep fees at 10% or less");
function updateSellFees(uint256 _ marketingFee, uint256
_liquidityFee) external onlyOwner {
 sellMarketingFee = _marketingFee;
 sellLiquidityFee = _liquidityFee;
 sellTotalFees = sellMarketingFee + sellLiquidityFee;
require(sellTotalFees <= 10, "Must keep fees at 10% or less");
function updateTransferFees(uint256 _ marketingFee, uint256
_liquidityFee) external onlyOwner {
 transferMarketingFee = _marketingFee;
 transferLiquidityFee = _liquidityFee;
 transferTotalFees = transferMarketingFee + transferLiquidityFee;
require(transferTotalFees <= 10, "Must keep fees at 10% or less");
```



LOW RISK FINDING

```
function setAutomatedMarketMakerPair(address pair, bool value)
external onlyOwner {
require(pair!= uniswapV2Pair, "The pair cannot be removed from
automatedMarketMakerPairs");
```

```
_setAutomatedMarketMakerPair(pair, value);
}
```

Suggestion

Emit an event for critical changes.



INFORMATIONAL & OPTIMIZATIONS

Optimization

Severity: Informational

subject: Remove Safe Math

Status: Open

Line: 458-599

Overview:

compiler version above 0.8.0 can control arithmetic overflow/underflow, it is recommended to remove the unwanted code to avoid high gas fees.



INFORMATIONAL & OPTIMIZATIONS

Optimization

Severity: Informational

subject: Floating Pragma

Status: Open

Overview:

It is considered best practice to pick one compiler version and stick with it. With a floating pragma, contracts may accidentally be deployed using an outdated.

pragma solidity ^0.8.9;

Suggestion:

Adding the latest constant version of solidity is recommended, as this prevents the unintentional deployment of a contract with an outdated compiler that contains unresolved bugs.



INFORMATIONAL & OPTIMIZATIONS

Optimization

Severity: Optimization

subject: Remove Unused Code

Status: Open

Overview:

Unused variables are allowed in Solidity, and they do. not pose a direct security issue. It is the best practice though to avoid them.

```
event RewardTriggered(uint256 amount);
event UpdateUniswapV2Router(address indexed newAddress,
address indexedoldAddress);
event OwnerForcedSwapBack(uint256 timestamp);
function _msgData() internal view virtual returns (bytes
calldata) {
 this; // silence state mutability warning without generating
bytecode - see
https://github.com/ethereum/solidity/issues/2691
return msg.data;
function _burn(address account, uint256 amount) internal
virtual {
require(account!= address(0), "ERC20: burn from the zero
address");
 _beforeTokenTransfer(account, address(0), amount);
 _balances[account] = _balances[account].sub(amount,
"ERC20: burn amount exceeds balance");
  _totalSupply = _totalSupply.sub(amount);
  emit Transfer(account, address(0), amount);
```



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.

www.expelee.com

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Building the Futuristic Blockchain Ecosystem



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