

Building the Futuristic Blockchain Ecosystem

SECURITY AUDIT REPORT

Mickey Token



TOKEN OVERVIEW

Risk Findings

Severity	Found	
High	0	
Medium	1	
Low	0	
Informational	0	

Centralization Risks

Owner Privileges	Description	
Can Owner Set Taxes >25%?	Not Detected	
Owner needs to enable trading?	Not Detected	
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 Result	Passed
KYC Verification	-
Audit Date	13 September 2023



CONTRACT DETAILS

Token Address: 0xaC9660d1B459343D8d31C30197d6a910BFF9f693

Name: Mickey Token

Symbol: MICKEY

Decimals: 18

Netowrk: BSC

Token Type: BEP20

Owner: 0x4f642433f54345Fd23C06365822cD0Ee18607Eb9

Deployer: 0x4f642433f54345Fd23C06365822cD0Ee18607Eb9

Token Supply: 10,000,000,000

Checksum:

a4dec6753bc5lacc3049b34a99ca09c97ad2bl36

Testnet version:

The tests conducted were performed on the contract deployed on the Binance Smart Chain (BSC) Testnet.

https://testnet.bscscan.com/token/0x79b135C81D089d7a181E8ed183e0B428Bc0ad3eB



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

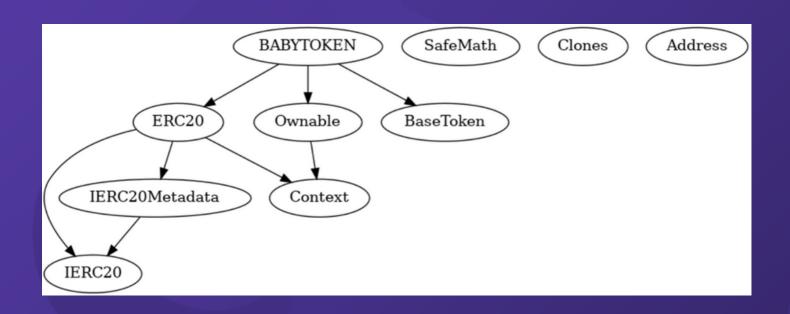
Issues on this level are minor details and warning that can remain unfixed.

Informational

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



INHERITANCE TREES





```
|Contract |
           Type
                  Bases
| **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
ШШ
| **IERC20** | Interface | ||| | | |
| L| totalSupply | External | | NO | |
| - | transfer | External | | | | NO | |
| - | allowance | External | | | NO | |
| └ | approve | External | | ● |NO | |
| **IERC20Metadata** | Interface | IERC20 |||
| - | symbol | External | | NO | |
| - | decimals | External | | | NO | |
ШШ
| **Context** | Implementation | |||
ШШ
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata ||| | |
| └ | <Constructor> | Public | | ● |NO | |
| - | name | Public | | | NO | |
| -|symbol|Public | | NO | |
| L | decimals | Public | | NO | |
 | allowance | Public | | NO | |
| - | approve | Public | | | NO | |
 └ | transferFrom | Public │ │ ● |NO │ |
 └ | increaseAllowance | Public ! | ● |NO! |
 | decreaseAllowance | Public | | | | NO | |
 🕒 | _transfer | Internal 🤒 | 🌑 | |
| - | _mint | Internal | - | | - | |
 └-|_burn | Internal 🔒 | 🥌 | |
 └─|_approve|Internal 🔒 | 🌑 | |
 └ | _beforeTokenTransfer | Internal 🔒 | ● | |
 └ | _afterTokenTransfer | Internal 🔒 | 🧶 | |
```



```
| **Ownable** | Implementation | Context ||| | |
| - | <Constructor> | Public | | | NO | |
 | - | renounceOwnership | Public | | | | onlyOwner |
| - | transferOwnership | Public | | | | onlyOwner |
ШШ
| **SafeMath** | Library | |||
└ | tryDiv | Internal 🤒 | ||
 └ | tryMod | Internal 🔒 | | |
 └ | add | Internal 🔒 | | |
└ | div | Internal 🔒 | | |
| - | mod | Internal - | | | |
 └ | sub | Internal 🔒 | | |
| **Clones** | Library | ||| | | |
| - | clone | Internal | - | | | | |
| - | cloneDeterministic | Internal | - | | | | |
| | predictDeterministicAddress | Internal | | | |
 | | predictDeterministicAddress | Internal | | | |
| **Address** | Library | |||
| └ | isContract | Internal 🔒 | | |
| - | sendValue | Internal - | - | |
 └ | functionCall | Internal 🔒 | 🧶 | |
 └ | functionCall | Internal 🔒 | 🧶 | |
 └ | functionCallWithValue | Internal 🔒 | 🧶 | |
 └ | functionCallWithValue | Internal 🤒 | 🧶 | |
| L | functionStaticCall | Internal A | | |
```



```
| - | functionStaticCall | Internal | | | | | | | | | | | | | | |
| - | functionDelegateCall | Internal - | • | |
| - | functionDelegateCall | Internal - | • | |
| | verifyCallResult | Internal | | | |
| **IUniswapV2Factory** | Interface | |||
| | feeTo | External | | NO | |
| | | feeToSetter | External | | | NO | |
| - | getPair | External | | NO | |
| - | allPairs | External | | | NO | |
   | allPairsLength | External | | NO | |
  | | setFeeTo | External | | | NO | |
| | setFeeToSetter | External | | | NO | |
| **IUniswapV2Router01** | Interface | |||
| - | factory | External | | | NO | |
   | WETH | External | | NO | |
  | addLiquidity | External | | | NO | |
   | addLiquidityETH | External | | | | | | | | | | | | | | | |
| - | removeLiquidity | External | | | | NO | |
  | removeLiquidityETH | External | | | NO | |
| - | removeLiquidityWithPermit | External | | | NO | |
| - | removeLiquidityETHWithPermit | External | | | NO | |
   | swapExactTokensForTokens | External | | | | NO | |
   | swapTokensForExactTokens | External | | | NO | |
   | swapExactETHForTokens | External | | | | | | | | | | | | | | |
   | swapTokensForExactETH | External | | | | NO | |
   | swapExactTokensForETH | External | | | NO | |
   | quote | External | | |NO | |
| | getAmountOut | External | | NO | |
   | getAmountin | External | | NO | |
| - | getAmountsOut | External | | | NO | |
| - | getAmountsIn | External | | NO | |
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
| **IERC20Upgradeable** | Interface | |||
| Lance | Lanc
```



```
| L | balanceOf | External | | NO | | | |
| Lansfer | External | | | NO | |
| Lallowance | External | | NO | |
| Lapprove | External | | Image | INO | |
| - | transferFrom | External | | | | NO | |
| **IERC20MetadataUpgradeable** | Interface | IERC20Upgradeable |||
| - | name | External | | | NO | |
| | symbol | External | | NO | |
| - | decimals | External | | | NO | |
| **Initializable** | Implementation | |||
| **ContextUpgradeable** | Implementation | Initializable ||
| Lacontext_init | Internal About | Internal Lacontext_init | Internal
| - | __Context_init_unchained | Internal | - | | | | initializer |
| - | _msgSender | Internal - | | |
| └|_msgData|Internal | | | |
| **ERC20Upgradeable** | Implementation | Initializable, ContextUpgradeable, IERC20Upgradeable,
IERC20MetadataUpgradeable |||
| Lack | 
| - | __ERC20_init_unchained | Internal | | | | | | initializer |
| | name | Public | NO | |
| | symbol | Public | | NO | |
      | decimals | Public | | NO | |
      | totalSupply | Public | | NO | |
| Lacolumn 
| - | transfer | Public | | • | NO | | | |
| - | allowance | Public | | | NO | |
| LansferFrom | Publica | | Image | NO | |
      | increaseAllowance | Public | | | NO | |
| - | decreaseAllowance | Public | | | NO | |
| - | _transfer | Internal | - | | | | |
| - | _mint | Internal | - | | | | | |
| - | _burn | Internal | - | | - | |
| - | _approve | Internal | - | | | | | |
| - | _beforeTokenTransfer | Internal | - | | | | | |
| - | _afterTokenTransfer | Internal | - | | | | | |
ШШ
| **OwnableUpgradeable** | Implementation | Initializable, ContextUpgradeable ||| | | | |
| - | _Ownable_init | Internal | | | | | | initializer |
| - | _Ownable_init_unchained | Internal | | | | | initializer |
| - | owner | Public | | | NO | |
| - | renounceOwnership | Public | | | | onlyOwner |
| | transferOwnership | Public | | | | onlyOwner |
```



```
| - | _setOwner | Private 🔐 | 🧶 | | | |
| **IUniswapV2Pair** | Interface | |||
| - | name | External | | | NO | |
| - | symbol | External | | NO | |
| - | decimals | External | | NO | |
| - | totalSupply | External | | | NO | |
| - | balanceOf | External | | NO | |
| - | allowance | External | | | NO | |
| - | approve | External | | | NO | |
 - | transfer | External | | • | NO | |
| - | transferFrom | External | | • | NO | |
| | DOMAIN_SEPARATOR | External | | NO | |
| | PERMIT_TYPEHASH | External | | | NO | |
| | nonces | External | | NO | |
| - | permit | External | | • | NO | |
| - | MINIMUM_LIQUIDITY | External | | | NO | |
  | factory | External | | NO | |
 | token0 | External | | NO | |
| - | token1 | External | | NO | |
| - | getReserves | External | | NO | |
 | price0CumulativeLast | External | | NO | |
| - | price1CumulativeLast | External | | |NO | |
| L|kLast | External | | NO | |
 | mint | External | | | NO | |
 └ | burn | External ! | ● |NO! |
 | - | skim | External | | | | NO | |
| - | sync | External | | • | NO | |
| - | initialize | External | | | NO | |
| **SafeMathInt** | Library | |||
| - | mul | Internal | | | | |
| - | div | Internal - | | |
| - | add | Internal | | | | |
| - | toUint256Safe | Internal - | | |
| **IterableMapping** | Library | |||
| - | get | Internal | | | | |
| - | getIndexOfKey | Internal - | | |
| - | getKeyAtIndex | Internal | | | |
```



```
| - | size | Internal | - | | | |
| - | set | Internal | - | | - | |
| - | remove | Internal | - | | - | |
ШШ
| **DividendPayingTokenInterface** | Interface | ||| |
| L| dividendOf | External | | NO | |
| **DividendPayingTokenOptionalInterface** | Interface | |||
| | withdrawableDividendOf | External | | NO | |
 | withdrawnDividendOf | External | | NO | |
| | accumulativeDividendOf | External | | NO | |
| **DividendPayingToken** | Implementation | ERC20Upgradeable, OwnableUpgradeable,
DividendPayingTokenInterface, DividendPayingTokenOptionalInterface |||
| - | __DividendPayingToken_init | Internal | - | | | | initializer | |
| - | distributeCAKEDividends | Public | | | | onlyOwner |
 | withdrawDividend | Public | | | NO | |
 | withdrawDividendOfUser | Internal | | | | |
 | dividendOf | Public | | NO | |
| | withdrawableDividendOf | Public | | NO | |
 | withdrawnDividendOf | Public | | NO | |
| | accumulativeDividendOf | Public | | NO | |
| - | _transfer | Internal | - | |
| - | _mint | Internal | - | - | |
 | _ | _burn | Internal | | | | | | |
| LactBalance | Internal Alace | |
ШШ
**BABYTOKENDividendTracker** | Implementation | OwnableUpgradeable, DividendPayingToken
| - | initialize | External | | - | initializer | | |
| | withdrawDividend | Public | | NO | |
 | excludeFromDividends | External | | | | onlyOwner |
 | isExcludedFromDividends | Public | | NO | |
| | updateClaimWait | External | | | | onlyOwner |
| | updateMinimumTokenBalanceForDividends | External | | | | | onlyOwner |
| | getLastProcessedIndex | External | | NO | |
| | getNumberOfTokenHolders | External | | NO | |
| | getAccount | Public | | NO | |
| | getAccountAtIndex | Public | | NO | |
 └ | canAutoClaim | Private 🔐 | | |
 | setBalance | External | | | | onlyOwner | |
| - | process | Public | | • | NO | |
| | processAccount | Public | | | | onlyOwner |
| **BaseToken** | Implementation | |||
```



```
IIIIII
| **BABYTOKEN** | Implementation | ERC20, Ownable, BaseToken ||| | | | | | | | | | |
| - | Constructor | Public | | | ERC20 |
 | | Receive Ether> | External | | | | | | | | | | | | |
 | setSwapTokensAtAmount | External | | | | onlyOwner |
| - | excludeFromFees | External | | | | onlyOwner |
| - | excludeMultipleAccountsFromFees | External | | • | onlyOwner |
| | setMarketingWallet | External | | | onlyOwner |
 | setTokenRewardsFee | External | | | | onlyOwner |
| - | setLiquiditFee | External | | | | onlyOwner |
  └ | setMarketingFee | External ! | ● | onlyOwner |
 - | _setAutomatedMarketMakerPair | Private 🔐 | 🌘 | |
 | updateGasForProcessing | Public | | | | onlyOwner | |
| | updateClaimWait | External | | | | onlyOwner |
| L|getClaimWait|External | | NO | |
 └ | updateMinimumTokenBalanceForDividends | External ! | ● | onlyOwner |
| | getMinimumTokenBalanceForDividends | External | | NO | | | |
 | getTotalDividendsDistributed | External | | NO | |
 | isExcludedFromFees | Public | | NO | |
 | withdrawableDividendOf | Public | | NO | |
| | dividendTokenBalanceOf | Public | | NO | |
 | excludeFromDividends | External | | | | onlyOwner |
| | isExcludedFromDividends | Public | | NO | |
 | getAccountDividendsInfo | External | | NO | |
 | getAccountDividendsInfoAtIndex | External | | NO | |
 | processDividendTracker | External | | | NO | |
 | | getLastProcessedIndex | External | | NO | |
| | getNumberOfDividendTokenHolders | External | | NO | |
| - | _transfer | Internal | - | |
 | swapAndSendToFee | Private | | | | |
| - | swapAndLiquify | Private | | | | | |
 | swapTokensForEth | Private 🔐 | 🧶 | |
 | swapTokensForCake | Private 🔐 | 🌑 | |
 - | addLiquidity | Private 🔐 | 🧶 | |
| - | swapAndSendDividends | Private a | | • | |
### Legend
|Symbol | Meaning|
    ----:|-----
| • | Function can modify state |
| I Function is payable |
```



TESTNET VERSION

Adding Liquidity 	
Tx: https://testnet.bscscan.com/tx/0xb50a432c4e884e500c654d0d97441b33619cec9e2d7d1a6a54e8f7e5282202)a6
Buying when excluded from fees ✓ Tx (0% tax): https://testnet.bscscan.com/tx/0x7f7429a920e93229eec3dffd621ecc2f6254b912748f45b4e7109f1a4e49b6	'c5
Selling when excluded from fees ✓ Tx (0% tax): https://testnet.bscscan.com/tx/0x3be06bc3e71a970ab29102ff7c14128414e813b0d 0d2187dc4349f86eda9f5	2c
Transferring when exclduded from fees ✓ Tx (0% tax): https://testnet.bscscan.com/tx/0x8aebe2d6542926ae9ac28a20b1dbe8e7424796abebddf8ab8d2cae65dabc50	ı1a
Buying ✓ Tx (0-25% tax): https://testnet.bscscan.com/tx/0x8fdc6b2ebad524bce6ff32fe16235a9709973b66d0445c6335a6b1abdabecf	23



TESTNET VERSION

Selling <

Tx (0-25% tax):

https://testnet.bscscan.com/tx/0x512331f56267a818b324025abe95810b50180b057da467da2e9a817d8b54b152

Transferring <

Tx (0-25% tax):

https://testnet.bscscan.com/tx/0xdafa8e7f0f5b58d58eab9983cbb1880cae0a7cf584c4ec1b1d7688a87cd125e6

Internal swap (auto-liquidity | reflections in BUSD | BNB to marketing wallet) <a>Tx:

https://testnet.bscscan.com/tx/0x512331f56267a818b324025abe95810b50180b057da467da2e9a817d8b54b152



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

Category: Centralization

Subject: up to 25% fee

Status: Open

Impact: Medium

Overview:

Owner is able to update buy/sel/transfer fees within 0-25 percent. The upper bound might be considered a high amount of tax for investors.

```
function setTokenRewardsFee(uint256 value) external onlyOwner {
  tokenRewardsFee = value;
  totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
  require(totalFees <= 25, "Total fee is over 25%");
}

function setLiquiditFee(uint256 value) external onlyOwner {
  liquidityFee = value;
  totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
  require(totalFees <= 25, "Total fee is over 25%");
}

function setMarketingFee(uint256 value) external onlyOwner {
  marketingFee = value;
  totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
  require(totalFees <= 25, "Total fee is over 25%");
}</pre>
```

Suggestion:

Its suggested to declare a more reasonable upper bound for fees. This upper bound is suggested to be 10% according to pinksale safu cirteria



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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