

Building the Futuristic Blockchain Ecosystem

SECURITY AUDIT REPORT

BabyGirlETF



TOKEN OVERVIEW

Risk Findings

Severity	Found	
High	1	
Medium	1	
Low	0	
Informational	1	

Centralization Risks

Owner Privileges	Description	
Can Owner Set Taxes >25%?	Not Detected	
Owner Can enable trading?	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 with high risk
KYC Verification	-
Audit Date	08 Jan 2024



CONTRACT DETAILS

Token Name: BabyGirlETF

Symbol: BabyGirlETF

Network: BscScan

Decimals: 9

Token Type: BEP - 20

Contract Address:

0xB11ec29199428Db92ED2B19Cc4afEE0E94Afd3A9

Total Supply: 1,000,000,000

Owner's Wallet:

0xECDE515c708F1b33Be1fB892982F4d7d55F77cd3

Deployer's Wallet:

0xECDE515c708F1b33Be1fB892982F4d7d55F77cd3

Checksum: A2032c616934aeb47e6039f76b20d2h5

Testnet.

https://testnet.bscscan.com/address/0x8f9d35cf1c338ae5

4ee72ed88387f2b245ac3113#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

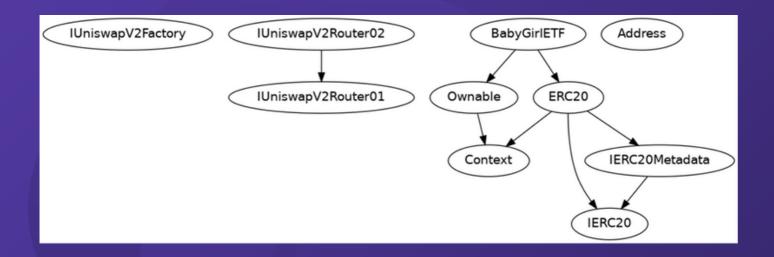
Issues on this level are minor details and warning that can remain unfixed.

Informational

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



INHERITANCE TREES



INFO: Detectors:



STATIC ANALYSIS

```
| MFG:Detectors: | AbpGirlETF.constructor().pinklock (BabyGirlETF.sol#289) is a local variable never initialized | BabyGirlETF.constructor().router (BabyGirlETF.sol#288) is a local variable never initialized | BabyGirlETF.constructor().router (BabyGirlETF.sol#288) is a local variable never initialized | BabyGirlETF.constructor().router (BabyGirlETF.sol#382-351) ignores return value by address(msg.sender).sendValue(address(this).balance) (BabyGirlETF.sol#382-351) ignores return value by address(msg.sender).sendValue(address(this).balance) (BabyGirlETF.sol#382-351) ignores return value by unismapVZRouter.add.iquidityETM[value: nemBalance](address(this), other | Half.8,0,address(@dead).block.timestamp) (BabyGirlETF.sol#392-399) | BabyGirlETF.sol#392-399) | BabyGirlETF.sol#392-399) | BabyGirlETF.sol#392-399) | BabyGirlETF.sol#392-3999 | BabyGirlETF.sol#393-3999 | BabyGirlETF.s
```


variables-that-could-be-declared-immutable

https://github.com/crytic/slither/wiki/Detector-Documentation#state-

INFO:Slither:BabyGirlETF.sol analyzed (10 contracts with 93 detectors), 25 result(s) found



TESTNET VERSION

1- Approve (passed):

https://testnet.bscscan.com/tx/0x97039be79a5b75a2f8eeca1437294cc3082197593a049664c7d361d0be522a33

2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0x1ad3ce06de897c94967c4ab3d8f78f534fe6521d4379 0db1b35561dec2d767bb

3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0xa5a74bc80ca9b1225c7fd6306a6be5d0d0dace0eeba 3662057a369b88f892291

4- Enable Trading (passed):

https://testnet.bscscan.com/tx/0x4da5938fd36deb74cad5deafa029a61c442d8ca7f8bc f0799e21910cada97dfa

5- Set Swap Enable (passed):

https://testnet.bscscan.com/tx/0x073f256abb260b41fce0bd5ced668a10e0cc8f047edf629d6b8391a81ef901e0



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

Enabling Trades

Category: Centralization

Status: Open

Severity: High

Function: enableTrading

Overview:

The EnableTrading 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{
require(!tradingEnabled, "Trading already enabled.");
  tradingEnabled = 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.



HIGH RISK FINDING

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 badfaith actions by the original owner.



MEDIUM RISK FINDING

Missing Require Check.

Category: Centralization

Status: Open

Severity: Medium

Function: changeMarketingWallet

Overview:

The owner can set any arbitrary address excluding zero address as this is not recommended because if the owner will set 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 changeMarketingWallet(address
_marketingWallet) external onlyOwner{
require(_marketingWallet != marketingWallet,"Marketing wallet
is already that address");
require(_marketingWallet != address(0),"Marketing wallet
cannot be the zero address");
marketingWallet = _marketingWallet;
emit MarketingWalletChanged(marketingWallet);
```

Suggestion:

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



INFORMATIONAL RISK FINDING

Status: Open

Subject: Remove unused code

Severity: Optimization

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.

```
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;
    }
```



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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Building the Futuristic Blockchain Ecosystem



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