GenshinFlokiInu
Smart Contract Security Audit
Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn’t say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.
TechRate was commissioned by GenshinFlokiInu to perform an audit of smart contracts: https://github.com/GenshinFloki/GenshinFloki/commit/854d6bac4278d12f838eceff3c5fe1166dd242fd

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.
## Issues Checking Status

<table>
<thead>
<tr>
<th>Issue description</th>
<th>Checking status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Compiler errors.</td>
<td>Passed</td>
</tr>
<tr>
<td>2. Race conditions and Reentrancy. Cross-function race conditions.</td>
<td>Passed</td>
</tr>
<tr>
<td>3. Possible delays in data delivery.</td>
<td>Passed</td>
</tr>
<tr>
<td>4. Oracle calls.</td>
<td>Passed</td>
</tr>
<tr>
<td>5. Front running.</td>
<td>Passed</td>
</tr>
<tr>
<td>6. Timestamp dependence.</td>
<td>Passed</td>
</tr>
<tr>
<td>7. Integer Overflow and Underflow.</td>
<td>Passed</td>
</tr>
<tr>
<td>8. DoS with Revert.</td>
<td>Passed</td>
</tr>
<tr>
<td>9. DoS with block gas limit.</td>
<td>Low issues</td>
</tr>
<tr>
<td>10. Methods execution permissions.</td>
<td>Passed</td>
</tr>
<tr>
<td>11. Economy model of the contract.</td>
<td>Passed</td>
</tr>
<tr>
<td>12. The impact of the exchange rate on the logic.</td>
<td>Passed</td>
</tr>
<tr>
<td>13. Private user data leaks.</td>
<td>Passed</td>
</tr>
<tr>
<td>14. Malicious Event log.</td>
<td>Passed</td>
</tr>
<tr>
<td>15. Scoping and Declarations.</td>
<td>Passed</td>
</tr>
<tr>
<td>16. Uninitialized storage pointers.</td>
<td>Passed</td>
</tr>
<tr>
<td>17. Arithmetic accuracy.</td>
<td>Low issues</td>
</tr>
<tr>
<td>18. Design Logic.</td>
<td>Low issues</td>
</tr>
<tr>
<td>19. Cross-function race conditions.</td>
<td>Passed</td>
</tr>
<tr>
<td>20. Safe Open Zeppelin contracts implementation and usage.</td>
<td>Passed</td>
</tr>
<tr>
<td>21. Fallback function security.</td>
<td>Passed</td>
</tr>
</tbody>
</table>
Security Issues

High Severity Issues
No high severity issues found.

Medium Severity Issues
No medium severity issues found.

Low Severity Issues

1. Out of gas
   Issue:
   - The function `bulkSetBot()` uses the loop to add / remove addresses from bots list. Function will be aborted with `OUT_OF_GAS` exception if there will be a long addresses list.
   - The function `manage_blacklist()` uses the loop to add / remove addresses from bots list. It also could be aborted with `OUT_OF_GAS` exception if there will be a long addresses list.

   Recommendation:
   Check that the addresses array length is not too big.

2. Rounding error
   Issue:
   - At each calculation with division, it is goes first. In Solidity we don’t have floating points, but instead we get rounding errors.

   Recommendation:
   Do division after multiplication.

3. Rebase incorrect status change
   Issue:
   - The function `rebase1000()` at the end change `beforeRebase` value twice.

   Recommendation:
   The function should change `rebaseStatus` value to false.
Owner privileges (In the period when the owner is not renounced)

- Owner can authorize / unauthorize addresses.
- Owner can add / remove addresses from bots list.
- Owner can change rebase, before rebase and LP statuses.
- Owner can withdraw contract BNBs.
- Owner can change sell and swap multipliers.
- Owner can change trading and launch status.
- Owner can enable / disable blacklist mode.
- Owner can add / remove addresses from blacklist.
- Owner can change cooldown settings.
- Owner can change pair address.
- Owner can change master address.
- Owner can withdraw BEP20 tokens.
- Owner can change maximum token per wallet.
- Owner can change maximum transaction amount.
- Owner can call multiTransfer function.
- Master and owner can rebase.
- Authorized addresses can withdraw contract BNBs to marketingFeeReceiver address.
- Authorized addresses can include in and exclude from dividends.
- Authorized addresses can include in and exclude from fee
- Authorized addresses can include in and exclude from timelock
- Authorized addresses can include in and exclude from transaction amount limit.
- Authorized addresses can change liquidity, reflection, marketing and dev fees.
- Authorized addresses can change autoLiquidity, marketing and dev fee receivers.
- Authorized addresses can change swap threshold and disable / enable swap.
- Authorized addresses can change targetLiquidity.
- Authorized addresses can change distribution criteria.
- Authorized addresses can change distribution GAS.
Conclusion

Smart contracts contain low severity issues and owner privileges! Liquidity pair contract’s security is not checked due to out of scope.

Liquidity locking details are NOT provided by the team.

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Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.