ReSbot (Reflection Selling Bot) by DEXbot:
A passive way to automate your Smart Chain token selling

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Abstract. 'ReSbot' (Reflection Selling Bot) by DEXbot is a decentralized application that acts as a sidecar to your cryptocurrency wallet allowing you to automate selling your tokens. Running on the Binance Smart Chain, ReSbot works with any cold storage wallet that has a private key and is compatible with any token listed on the PancakeSwap DEX. As a user, you are able to tell ReSbot which tokens to sell, and how to configure your sell settings. This results in an automated process that works 24 hours a day to reduce the time requirements of manually selling and the question of when to sell your Smart Chain tokens.
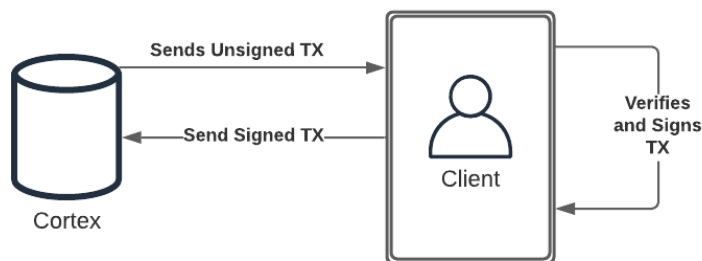
1. Introduction

ReSbot is an ecosystem containing three major elements:

1. The ReSbot server-side application
2. A secure database
3. The client application.

ReSbot listens to the blockchain at the token's contract address to know when there are buy transactions and the price is rising. When a buy transaction for the token occurs that meets your individual requirements, ReSbot creates a sell transaction based on your settings and sends the transaction to your client application to verify and sign.

2. Transactions

The client applications main purpose to receive an unsigned transaction from the Cortex, verify that the values are within the configurations, and sign the transaction.

Once the transaction is signed, it is sent back to the ReSbot to execute the sell transaction on the blockchain. The resulting BNB from the sell transaction is sent back to the user's wallet, minus a fee. This entire process results in a fully automated way to sell down earned reflections, reclaim initial investment, or potentially claim profit when the price is rising. This eliminates the guesswork of when to sell and the emotional impact of manually selling too many tokens too early, or selling tokens too late.

3. Security

The client application plays a critical component with the overall security of your cryptocurrency wallet. The private key for any wallets used with ReSbot is never obtained, stored, distributed, fetched, or transmitted outside of the client application. The client application runs locally on your computer or cloud hosted computer, and the only data that is sent or received from the client application are unsigned transactions generated from the Cortex, signed transactions, and token sell configs. For anyone who is unfamiliar with how transactions work, signed transactions do not contain the private key or any confidential information that could access your wallet.

To ensure transparency, security, and trust with our user base, we release the source code for the client application with each version update on our [publicly accessible on GitHub](#) for anyone to audit and/or verify.

4. Selling Criteria

ReSbot is a unique by taking a Token's health into account when executing sell transactions. The system has specific requirements to ensure that the price of the token is healthy and rising, and ReSbot will only execute a sell transaction once a buy comes in that meets the system's requirements and matches your token's sell settings. Sell transaction quantities are controlled by recent activity on the token, never allowing a single transaction on ReSbot to cause a net-negative price when combining an incoming buy order with a sell order generated by ReSbot. The system puts the health of the token first, while allowing you to continuously and passively swap your tokens to BNB.

5. User-Controlled Selling Criteria

When you set up ReSbot with your Smart Chain cyptocurrency wallet, there are several user-controlled setting that you are able to customize. These settings allow the Cortex to know when and how it should generate a transaction for you to sign after receiving an incoming buy order on your specific tokens. Some of the setting configurations include:

1. Minimum token balance to never go below.
2. Maximum BNB value of tokens to sell in a single transaction
3. Minimum delay period between each sell transaction
4. Maximum sell % compared to the incoming buy order
5. Minimum 24 hour price change % to not sell below

Those token-specific settings (excluding your private key) are sent to the Cortex, which allows it to know when an incoming buy order has matched all of your token selling criteria so it can generate a transaction for the client app to verify and sign.

6. User Queue System

ReSbot utilizes a unique user queue system in order to ensure that multiple clients using ReSbot on the same token aren't causing simultaneous sells or causing a net-negative impact on the token price. The basis behind the queue system is a *first come, first serve* approach. When a buy order comes in that matches the criteria of the first client in the queue and a sell order is submitted, the client whose transaction was signed is moved to the back of the queue. There are additional systems in place to ensure that if a client with aggressively high selling criteria is at the front of the queue, it will not cause any bottlenecks or stoppages for the users behind them.

7. Fees/Hub Wallet

There is a 2.5% transactional fee on the net BNB claimed for each automated ReSbot token transaction. When the Cortex generates a transaction for the client to sign, the OUT address for the BNB from the PancakeSwap transaction is sent to a publicly viewable sorting wallet on the Binance Smart Chain. When the sorting wallet receives BNB, it extracts the origin of the incoming BNB (the client wallet), subtracts 2.5% of the total BNB, and send the remainder of the BNB *(97.5% of the BNB)* to the client wallet associated with the original transaction. For swaps that result in more than 0.1BNB, the gas fee is covered from the 2.5% fee. This process is handled immediately upon receipt of incoming BNB, and there are persistent backup systems in place to handle any failures and resubmissions due to any Cortex downtime or maintenance.

8. Referral Reward System

Each user that creates an account on DEXbot.io will receive a unique referral URL that can be shared to friends and family, and shared on social media platforms. When a referred user signs up for an account using your unique URL, they will be attributed to you as your referral for life. If your referred user utilizes ReSbot for their automated cryptocurrency swapping, you will receive 5% of the 2.5% fee for every transaction that ReSbot executes for them. There are no limits to the amount of rewards that you can receive, and no limit to the amount of users you can receive a reward fee from.

Referral rewards for each user account are sent to the referrer each time 0.1 BNB has been accumulated from that specific users total referral rewards. Pending referral rewards are held in the sorting wallet, and proper logging ensures that the referral reward amount from each transaction is stored for accurate pending and sent rewards. The referrer will be able to update the wallet in which they receive their referral rewards at any time, and will apply for the following payment. Back payments will not be sent if you have referred someone and they did not use your unique URL when signing up for an account, so ensure that they are signing up using your unique link on account creation, or they can create a new account with a new email using your link for future referral reward attribution.

9. Summary

We have proposed a solution to securely automate the selling process of tokens contained within your wallet. Investors frequently are unsure of when and how to sell their Smart Chain tokens, and an automated system with user-controlled configurations is a huge step in the right direction. DEXbot's revolutionary ReSbot ecosystem focuses solely on wallet security, automation, and token health to allow the best possible likelihood of a tokens success and potential BNB holdings for users.