

Transaction Watcher

Introduction:

This is a crypto transaction watcher application. User adds an address to watch in this application and if the application is running, each transaction made by the watched address is added to the database and a notification is sent to the configured slack channel.

Scope:

Our application is connected to back-end MongoDB atlas. So what our application does is the user adds an address to watch in the database, and every time a new block is added to the chain it checks the transactions in the block that if there are any transactions performed by the added address and if there are then that transaction is added to the object of that particular object.

Functionality:

1. Allows user to add an address to watch.
2. No duplicate address added.
3. Add the found transactions to the address object in the database.
4. Sends the notifications to slack of the found transactions.

Endpoints:

1. **Post Api:** <http://localhost:5000/address/add>: This api allows the user to add address to the database. Body of the request `{"address": "Address you want to add"}`.

2. **GET Api:** <http://localhost:5000/address/get>: This api allows the user to add address to the database. Body of the request {"address":"Address you want to get transactions of"}.

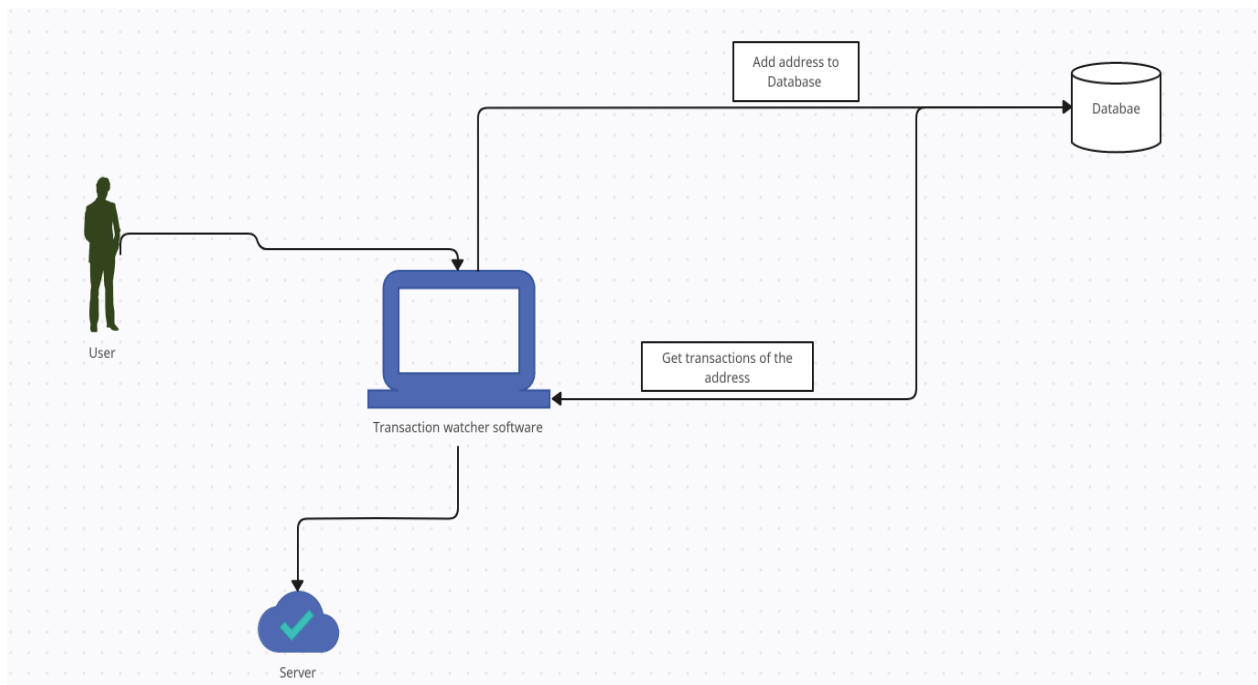
Technologies:

1. Mongo DB atlas.
2. Visual studio.

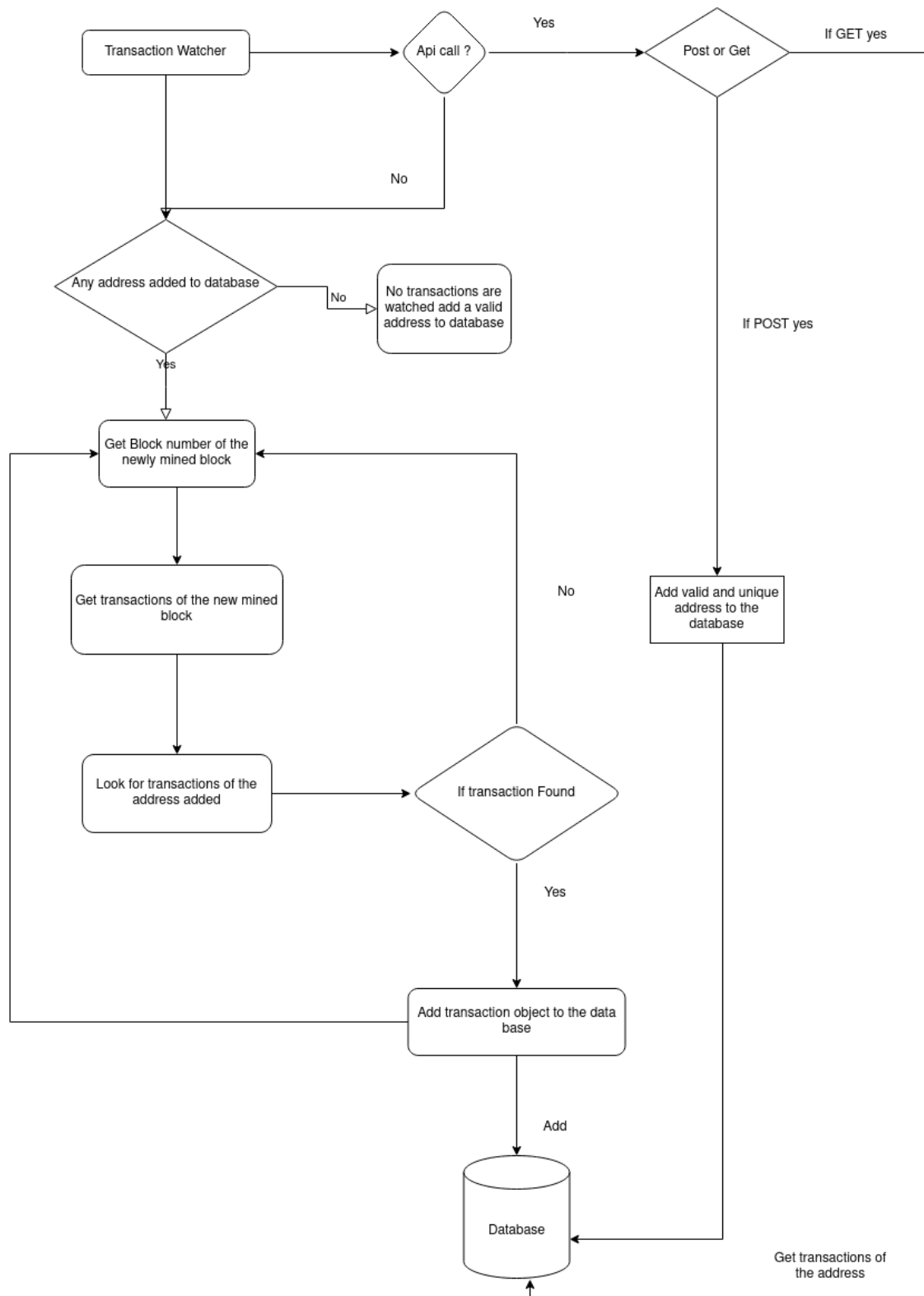
How to use:

1. First download the application from the git repository.
2. Run the script `npm run dev`.
3. Use the Api in postman to add the address to the watch list or get transactions of the added address.

System Architecture Diagram



Flow Chart



Database Diagram:

