How to run Acatracker

Installations needed in order of importance.

1. IDE (preferably visual studio: https://visualstudio.microsoft.com/downloads/)
2. Docker (https://www.docker.com/get-started)
3. PostgreSQl & Postgrest API

i . **To install PostgreSQL after installing docker, go to the website** https://www.postgresql.org/, **then after installation run the command below in your terminal:**

*sudo docker run --name tutorial -p 5433:5432 *
*   -e POSTGRES_PASSWORD=mysecretpassword *
*   -d postgres*

(This will run the Docker instance as a daemon and expose port 5433 to the host system so that it looks like an ordinary PostgreSQL server to the rest of the system.)

ii. **Install Postgrest from the github link provided below :**

https://github.com/PostgREST/postgrest/releases/tag/v9.0.0

iii. **in your terminal use the command below to unpack postgrest (remember to include your version and platform) :**

tar xJf postgrest-<version>-<platform>.tar.xz

(Try running postgrest after unpacking it with the command : *./postgrest* If everything is working correctly it will print out its version and information about configuration)

iv. **Now create a database for the api with the command in your terminal**:
sudo docker exec -it tutorial psql -U postgres

Then create the schema api with the command:
create schema api;

Create a role for authentication with the command:

create role authenticator noinherit login password 'mysecretpassword';

Create a todo_user role with the command:

create role todo_user nologin;
grant todo_user to authenticator;
grant usage on schema api to todo_user;

Now quite PostgreSQL :

\q

Now run the API in your terminal with the command below, and the config file provided in the folder :

postgrest postgrest.conf

You should see :

Listening on port 3000
Attempting to connect to the database...
Connection successful

Everything should be set up and ready to go now.

Steps to run after all installations.

1. Start up docker and make sure the database is running
2. Run postgrest api via your terminal with the command "postgrest" along with the config file in the folder named "postgres.config"
3. Start up visual code, open up the acatracker folder, and run the "main.dart" file