

## Author

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Hello, I am Akshat Aggarwal. I am an aspiring Data Scientist.

## Description

Quantified Self is a web application which tracks a user's lifestyle. It keeps a track of a user's Temperature, SpO2, Calories, Moods and Run. It can add data to the trackers, update and delete the data. It also shows a graphical presentation of the user's records.

## Technologies used

Technologies used include :

Flask : Quantified Self is a flask application.

SQLite : To store the database

Flask-sqlalchemy : To access the database models.

Bootstrap : For aesthetics

Chart.js : For real-time graphs of the records

## DB Schema Design

There are 6 DB models. Out of which one is the "User" table and the remaining 5 are the trackers namely: "Temperature", "SpO2", "Calorie", "Mood" and "Run"

The "User" Table:

The User table contains 3 fields:

user\_id: integer, primary key, unique, autoincrement

username: varchar, unique

password: varchar

Trackers : "Temperature", "SpO2", "Calories", "Mood", "Run"

Every has the following fields:

tracker\_id: integer, primary key, autoincrement

tracker\_time: timestamp, not null

tracker\_value: integer, not null

tracker\_note: varchar

## Architecture and Features

The QuantifiedSelf Folder contains the following:

1. requirements.txt
2. Main.py
3. Templates folder
4. Application folder
5. Db\_directory folder
6. Static folder
7. Local\_run.sh
8. Local\_setup.sh
9. Virtual Environment folder named .QuantifiedSelf-env

The “templates” folder contains all the required html files like user\_login.html, register.html, dashboard.html etc.

The “application” folder contains :

1. \_\_init\_\_.py
2. \_\_pycache\_\_ folder
3. Config.py
4. Controllers.py
5. Database.py
6. models.py

The “db\_directory” folder contains the database file named trackers.sqlite3

The “static” folder contains the required css and javascript files.

Link to the repl:

<https://quantifiedself.akshataggarwal9.repl.co/>

Video

<https://drive.google.com/file/d/1Wg6GdkGWLqulo8jLArM42qc6oTI3ei1S/view?usp=sharing>