Author

Aakarshit
21f1006982
21f1006982@student.onlinedegree.iitm.ac.in

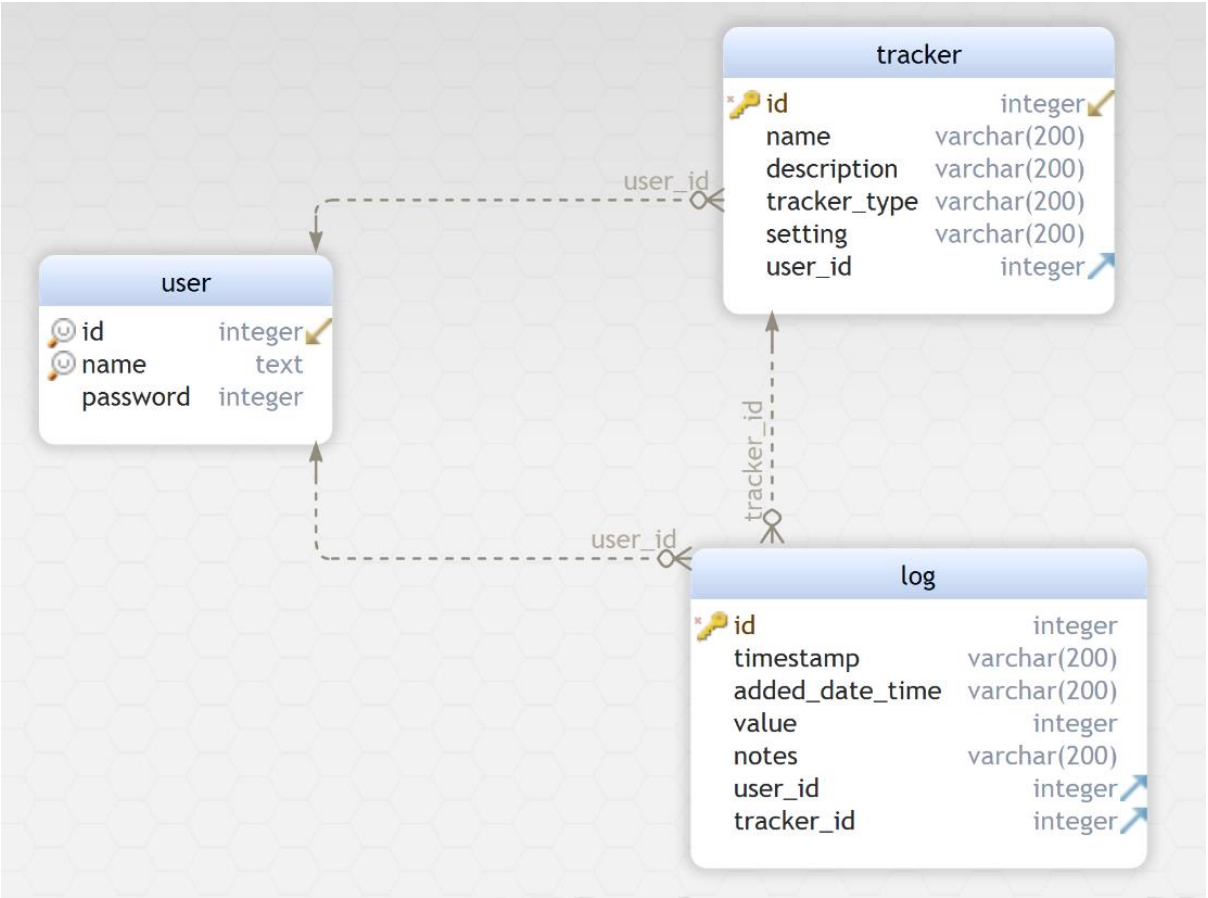
Description

Quantified Self app is a self-tracking application used to track habits, activities, and other life paterns like temperature, weight, etc.

Technologies used

Flask : Application Code
Flask-Sqlalchemy : Flask extension for Sqlalchemy to create database models.
Flask-Login : Flask package to add login feature to the application.
Matplotlib : Python Library to add graphs in the application.
Bootstrap : For CSS and HTML generation

DB Schema Design



Three tables are created as shown in the Schema diagram:

- User table stores information like user id, name, password.
- Tracker table stores tracker information like user id, tracker id, tracker name, tracker type and description.
- Log table stores user id, tracker id, tracker value, timestamp and notes.

For primary keys, foreign keys and relationships refer the schema diagram above.

Architecture and Features

- All HTML files are present in the templates folder.
- The application folder has models.py file which contains the database models and the db_directory folder contains the sqlite3 database which has all the tables and data stored.
- views.py contains all non-authenticated routes and auth.py contains all authentication routes in the application folder.
- All images are stored in the static folder.

- Ability to create , edit or view specific details of a tracker
- Add logs to the trackers based on the tracker type. Also can view, edit or delete logs.
- Added trendlines graph to the logs page specific to the given tracker.
- Ability to logout the current user.

Video

https://drive.google.com/file/d/1ffdfjGO5_zW_0aj1JOxHv-sg_NlsOR6V/view?usp=sharing