Morden Application Development 1

QuantifiedSelf App

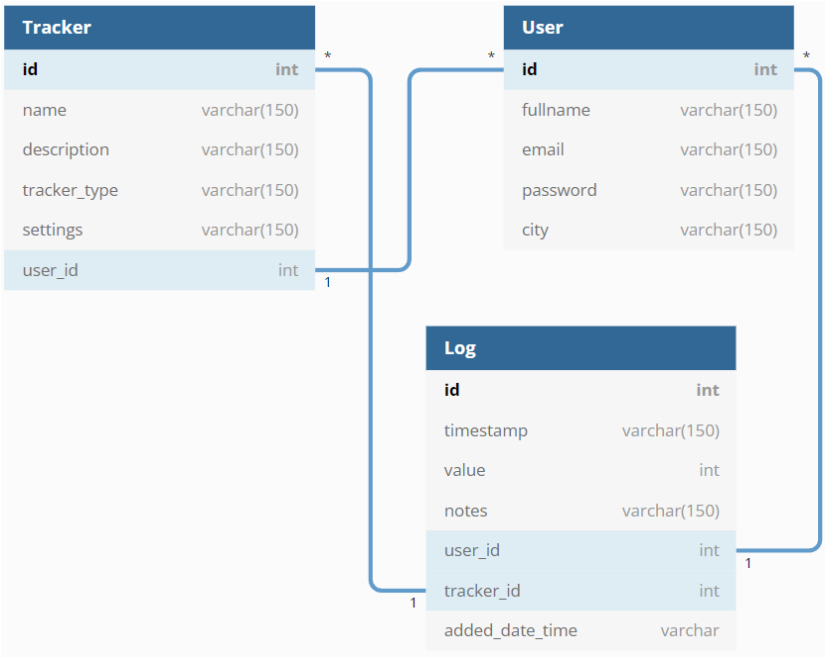
Description

The basic ideology behind the application is that it can be used for self tracking i.e tracking habits, activities, other life parameters etc. Users can have multiple trackers. System will track progress over time and show graphs, trend lines etc.

Technologies used

- **Flask :** Application code
- **Flask-Login :** Flask package to add sign-up and login feature to the application
- **Flask-Sqlalchemy :** Flask extension for Sqlalchemy to create database models
- **Matplotlib :** Python library to add graphs in the application
- **Bootstrap :** For CSS and HTML generation

Database Schema Applied



Architecture and Features

1) All HTML files are present in the templates folder.

2) models.py contains database models and database.db file contains all tables and data stored.

3) views.py contains all non-authentication routes and auth.py contains all authentication routes

4) All Images and CSS files are in the static folder.

Implementations

1) Flask has been properly implemented and runs successfully. Creating a user account with username and password is implemented, subsequently storing them in the SQLite database.

2) A proper user dashboard called Home is implemented.

3) For the Trackers, CRUD has been implemented. Users can create, update, and delete a tracker in the database.

4) For the Logs, CRUD is implemented. Users can add, update and delete logs in the database.

5) A Readme is present in the root of the folder which describes the packages needed to run the app and how to run it.

Video Tutorial Provided -
https://drive.google.com/file/d/1c9puYRFQ8iXpVU_IvxZVBTKqeOkZCSjn/view?usp=sharing

Submitted by,

Name - Aryaman Singh
Roll Number - 21F1004465
Email - 21f1004465@student.onlinedegree.iitm.ac.