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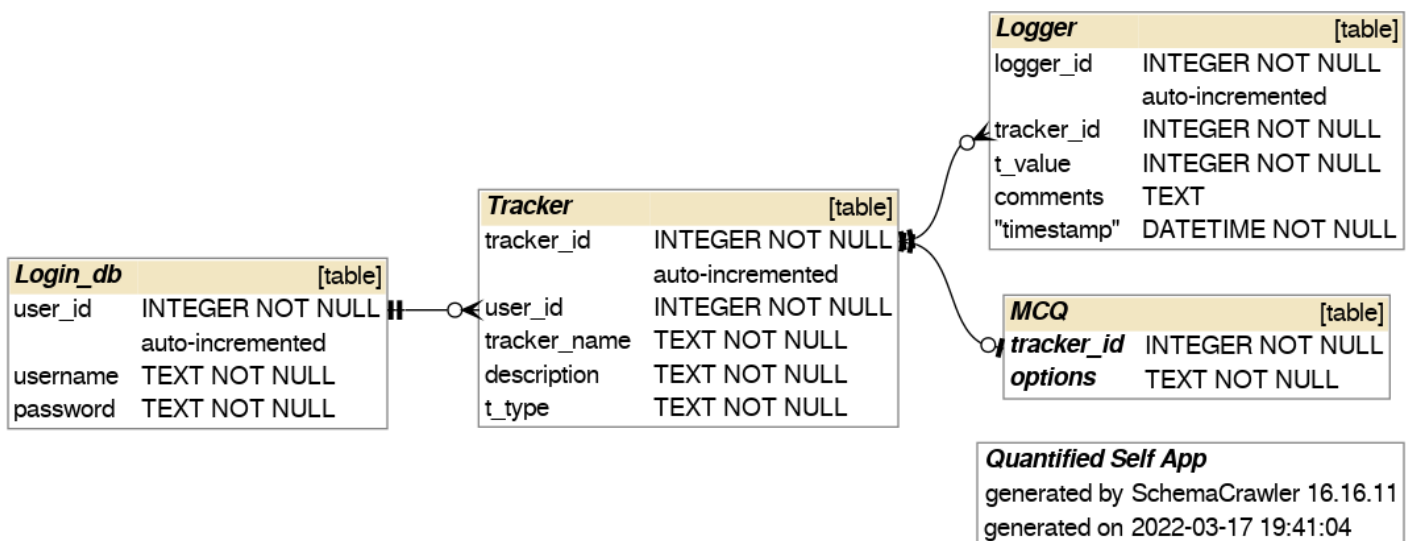21f1006948@student.onlinedegree.iitm.ac.in

Description

Quantified Self App has the ability to track and monitor your Habits, Mood and Goals oriented tasks by logging in details as per your fixed period of time. You can add different type of Trackers with respect to your Goal.

Technologies used

- Flask- As the main Framework
- Flask_RESTful- Flask-RESTful is an extension for Flask that adds support for quickly building REST APIs.
- Flask_SQLAlchemy- Flask-SQLAlchemy is an extension for Flask that adds support for SQLAlchemy to your application.
- Flask_Login- Flask-Login provides user session management for Flask. It handles the common tasks of logging in, logging out, and remembering your users' sessions over extended periods of time.
- Requests- Requests allows you to send HTTP/1.1 requests extremely easily.
- Jinja2- Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.
- SQLALchemy- SQLAlchemy is the Python SQL toolkit and Object Relational Mapper that gives application developers the full power and flexibility of SQL.
- Matplotlib- Matplotlib is a comprehensive library for creating static, animated, and interactive visualizations in Python.
- SQLite- As a Relational Database management System.

DB Schema Design

API Design

- User_api- GET, POST, PUT and DELETE.
- Tracker_api- GET, POST, PUT and DELETE.
- Log_api- GET, POST, PUT and DELETE.
- Setting_api- GET, POST and DELETE.
  All APIs are implemented with properly customized Error checks.

Architecture and Features

Architecture

static
 app.js
 graph.jpg
 login.jpg
templates
 all the templates
api.py
app.py
custom_error.py
models.py
project_db.sqlite3
QuantifiedSelf_APP.yaml

Features

- Register new user
- Login
- Add new Trackers
  - Numerical
  - MCQ
- Edit/Delete Trackers
- Add new log to the tracker
- Dashboard to show the Graphical representations of Logs

Video

https://drive.google.com/file/d/1UgwlAEbVlCfWhZITyx64_RK6H52Tt10P/view?usp=sharing