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I am Lakshya Ganeriwala. I am Currently in sophomore year in IITM Bsc Degree . In this term I have 3 subjects MAD-1,PDSA,DBMS. I am pursuing this degree full-time.

Description

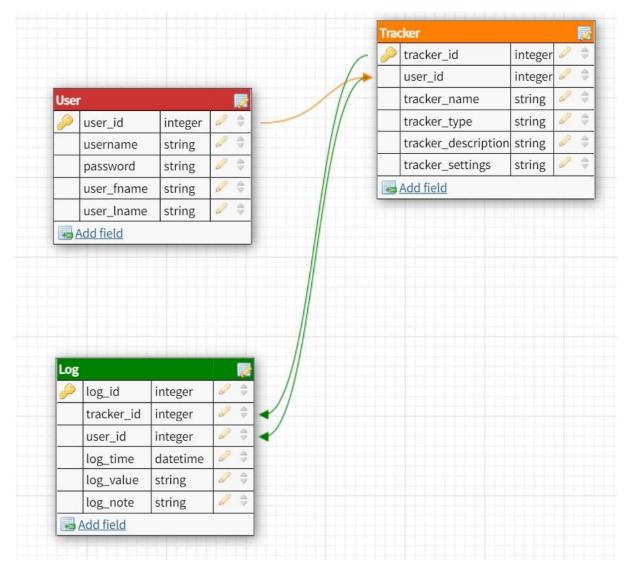
In this project i much i can understand we have to build basic python web application Using Flask and Flask-SQLAlchemy and users should be able to add tracker, update tracker, delete tracker, within tracker users should be able to add, update and delete logs.

Technology used

Flake, Flask-SQLAlchemy, Flask-RESTful, Jinja2, Matplotlib, DateTime, requests, and Passlib.hash

- Flask is a Python framework for developing web applications, based on Toolkit and Jinja2. There are several advantages to using the Flask framework: It has a built-in development server and a fast debugger. Flask is a micro-framework. A micro-framework is usually a framework that does not depend on external libraries.
- SQLAlchemy: SQLAlchemy is a Python SQL toolkit and Object Relational Mapper that delivers all the power and flexibility of SQL in a simple, Pythonic domain language. It is developed for efficient, high-performance database access.
- Restful is an extension for Flask that provides support for quickly building REST APIs. It is a lightweight abstraction that works with your existing ORM/library. The Flask-RESTful library encourages best practices with minimal setup. Flask-RESTful should be easy to learn for anyone familiar with Flask.
- The Jinja2 templating engine is fast, expressive, and extensible. The template's special placeholders enable users to write code using a syntax similar to Python's. A final document is produced by passing the template data.
- Python's Matplotlib library allows you to create static, animated, and interactive visualizations. The majority of Matplotlib utilities are found in the pyplot submodule.

DB Schema Design



In this table, the primary key is user_id, and the other columns are username, password, user_fname, and user_lname.

There are four columns in the Tracker table: tracker_id, user_id, tracker_type, tracker_description, and tracker_settings. Tracker_id is the primary key, user_id is the secondary key.

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Architecture and Features

I have used block method for templates. I have also used API to render the pages to communicate with Database.