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I'm a 2nd Year CSE student from Tamil Nadu, who is interested in anything and almost everything that's in the intersection of finance and technology and also football.

Description

A Flask-Web-App that keeps track of anything the user wants. The user can create custom trackers and can log their values at anytime they want. The User can create, read, update and delete trackers and logs at any time.

Technologies used

Flask – Framework used to create the web application.

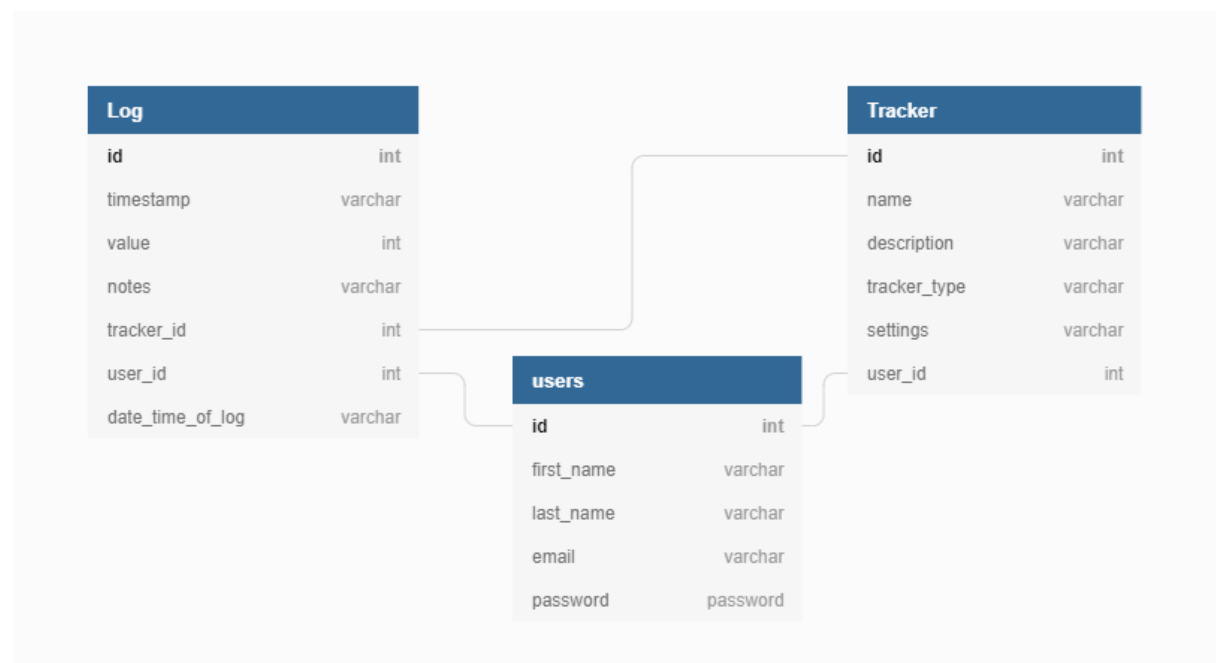
Flask-SQLAlchemy – To define database models and to manipulate the data

Jinja2 – To incorporate python in HTML

Matplotlib – To plot graphs

Datetime – To get the current date and time

DB Schema Design



The table User has a one-many relationship with the tables Tracker and Log, because a single user can create multiple trackers and logs.

The table Log and Tracker have foreign key 'user_id' from the table User, so that the trackers and logs of each user can be differentiated.

Architecture and Features

Project Tree:

Project:.

```
| main.py
|   website
|     database.db
|     models.py
|     views.py
|     __init__.py
|     static
|     templates
|       addlog.html
|       addtracker.html
|       base.html
|       editlog.html
|       editprofile.html
|       edittracker.html
|       home.html
|       login.html
|       profilepage.html
|       signup.html
|       viewtracker.html
|   __pycache__
|     models.cpython-39.pyc
|     views.cpython-39.pyc
|     __init__.cpython-39.pyc
```

The views are defined in the file views.py and the models are defined in models.py. __init__.py creates the app and database. The templates are stored in a folder named templates. And the graph generated is stored in the static folder.

Features Implemented:

CRUD for Trackers.

CRUD for Logs.

CRUD for Profile/User.

Video

https://drive.google.com/file/d/1OtIqkRdcG3KW_5fXBLedbeLcBbUTLRmK/view?usp=sharing