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I am a Mechanical Engineering graduate trying to pursue a career in Data Science

Description

In this project first database models for user, tracker and logs for each tracker have to be created. Then Login form and sign up form must be created. Pages for Dashboard, CRUD for tracker and CRUD for logs must be created

Technologies used

The flask extensions used are:

flask-sqlalchemy - To connect and use sqlite database
flask-login - To handle user sessions, logging in and logging out
email-validator - To validate the email entered in sign up form
flask-wtf - To create forms and validate them on the server side.
DB browser for SQLite - To manage database
werkzeug - To generate and check password hash

DB Schema Design

In the table user:
id - Integer and Primary key
username - String and unique so that there is no ambiguity in database
email - String and unique
password_hash - Store password hash generated by werkzeug
trackers - One to many relationship with the tracker table

In the table tracker:
t_id - Integer and Primary key
name - String
description - String
type -String
settings String
log - one to many relationship with the table log
user_id - foreign key from user table, used to identify the user a tracker belongs to

In the table log:

    l_id - Integer and Primary key

    timestamp - DateTime format from datetime library and default time is set as the
      current utc time

    notes - String

    tracker_id - foreign key from tracker table to identify the tracker a log belongs to

    user_id - foreign key from user table, used to identify the user a log belongs to

Progress:

- ☑ ~~Create database models~~
- ☑ ~~Create login and sign up forms~~
- ☑ ~~Server side validation for the forms~~
- ☑ ~~User session login and logout~~
- ☑ ~~Dashboard/View trackers page~~
- ☐ Add/Edit tracker pages
- ☐ Add/Edit log pages
- ☐ View log page