MAD-1 FINAL PROJECT: - **QUANTIFIED SELF APP(TRACKER APP)**

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I am a 22-year-old student, who hails from Bhubaneswar, Odisha. This is my 2nd term in the Diploma level. I am also pursing B.Tech in Civil Engineering(3rd Year) from Odisha University of Technology and Research (OUTR).

Description: - A Webapp where people can login and track their natural progression of various things (ex-Diet, Exercise) systematically and visualize the data in a graphical manner.

Database Schema Design: It has 3 tables which holds the details of the User, Tracker and its Logs.

- LOG TABLE: - log (tracker_id INTEGER NOT NULL, log_id INTEGER NOT NULL, log_datetime DATETIME NOT NULL, note VARCHAR, log_value VARCHAR NOT NULL, PRIMARY KEY (log_id), FOREIGN KEY(tracker_id) REFERENCES tracker (tracker_id))
- TRACKER TABLE: - tracker (user_id INTEGER NOT NULL, tracker_id INTEGER NOT NULL, name VARCHAR (30) NOT NULL, "desc" VARCHAR, type VARCHAR NOT NULL, settings VARCHAR, lastupdate DATETIME, PRIMARY KEY (tracker_id), FOREIGN KEY(user_id) REFERENCES user (id))
- USER TABLE: - user (id INTEGER NOT NULL, username VARCHAR NOT NULL, password VARCHAR NOT NULL, PRIMARY KEY (id), UNIQUE (username)

→ User Table will store the Username and Password of the User and also have a unique Id to it.
→ Tracker Table will store the Tracker Name, Tracker Type and will also be used to match with the unique User.
→ Log Table will store the values given as data by the User to keep a track of.

Technologies Used: -

- Flask
- Flask-Login
- Flask-SQLAlchemy
- Matplotlib
- Jinja2
- NumPy
- SQLAlchemy

Architecture and Design: -

The final project is in the zip file "21f1002100.zip". Upon extracting the file, we can have the all the templates (Ex-Signup Page, Login Page, Main Menu, Tracker) in the "templates" folder. Meanwhile, "Static" will be storing the image files. The "main.py" file holds the entire code within it. The "database.py" file holds the class of the database created. The file "quantified_self_database.sqlite3" holds all the information of the database. The text "requirements.txt" have the list of all the frameworks which are needed in this project.

Final Project Video: - https://drive.google.com/file/d/1Cvw8AS1-6GI7TI2QyBZyNMMLjt8TJtjO/view?usp=sharing