

QuantifiedSelf App – Report on 22nd Mar 2022

This document is being submitted to present the progress in the project to be submitted as Coursework for the Course Modern Application Development 1 in Diploma in Programming of IIT Madras BSc.

Modules Used:

- Flask
- Flask-SQLAlchemy
- Flask-WTForms
- Jinja2
- SQLiteDB

Components:

- Home
 - o Login
 - o Register
- Dashboard
 - o All Tracker Information
 - o Tracker Type
 - o Logging out of the App
- Logs Information
 - o Log information of specific tracker
 - o Add/Delete Log information

Home

Login

- Authentication of the user and creating a session for the user.
- WTForms has been imported from Flask and used for validation on inputs like mail and password.
- Passwords have been hashed for security purposes.

Register

- One can register newly on the app.
- Once registered one can login from the above-mentioned interface.

Dashboard

- Trackers a user has will be displayed here
- One can add required trackers
- Display Type of Trackers
- Addition/deletion of a Tracker

Trackers

- Trackers are of 4 types:
 - o Numerical
 - o Boolean
 - o Time
 - o Multiple Choice

Tracker Information/Logs:

- This is the information of the trackers that the user has logged after adding the particular tracker.
- If the tracker is deleted, the tracker logs will also be deleted.
- One can delete logs after adding them

Database:

- Three-Model Database:
 - o User
 - Used for Authentication
 - ID, Name, Email, Password
 - o Tracker
 - Used for Storing Tracker Type
 - And stores choices for Multiple choice and Boolean
 - ID, Name, Type, User_ID, MCB(Multiple Choice-Boolean)
 - o Data
 - Used to store logs of all the users and trackers
 - DID(data identification), User_ID, Tracker_ID, Value, Note

Link for Video Demonstration:

https://drive.google.com/file/d/1PrVcs_ISYHG3jkahY1xHCruFlk208O2o/view?usp=sharing

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