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
  + Login
  + Register
* Dashboard
  + All Tracker Information
  + Tracker Type
  + Logging out of the App
* Logs Information
  + Log information of specific tracker
  + 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:
  + Numerical
  + Boolean
  + Time
  + 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:
  + User
    - Used for Authentication
    - ID, Name, Email, Password
  + Tracker
    - Used for Storing Tracker Type
    - And stores choices for Multiple choice and Boolean
    - ID, Name, Type, User\_ID, MCB(Multiple Choice-Boolean)
  + 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_lSYHG3jkahY1xHCruFlk208O2o/view?usp=sharing>

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