

# MAD-1

Email – [21f1004812@student.onlinedegree.iitm.ac.in](mailto:21f1004812@student.onlinedegree.iitm.ac.in)

## DESCRIPTION

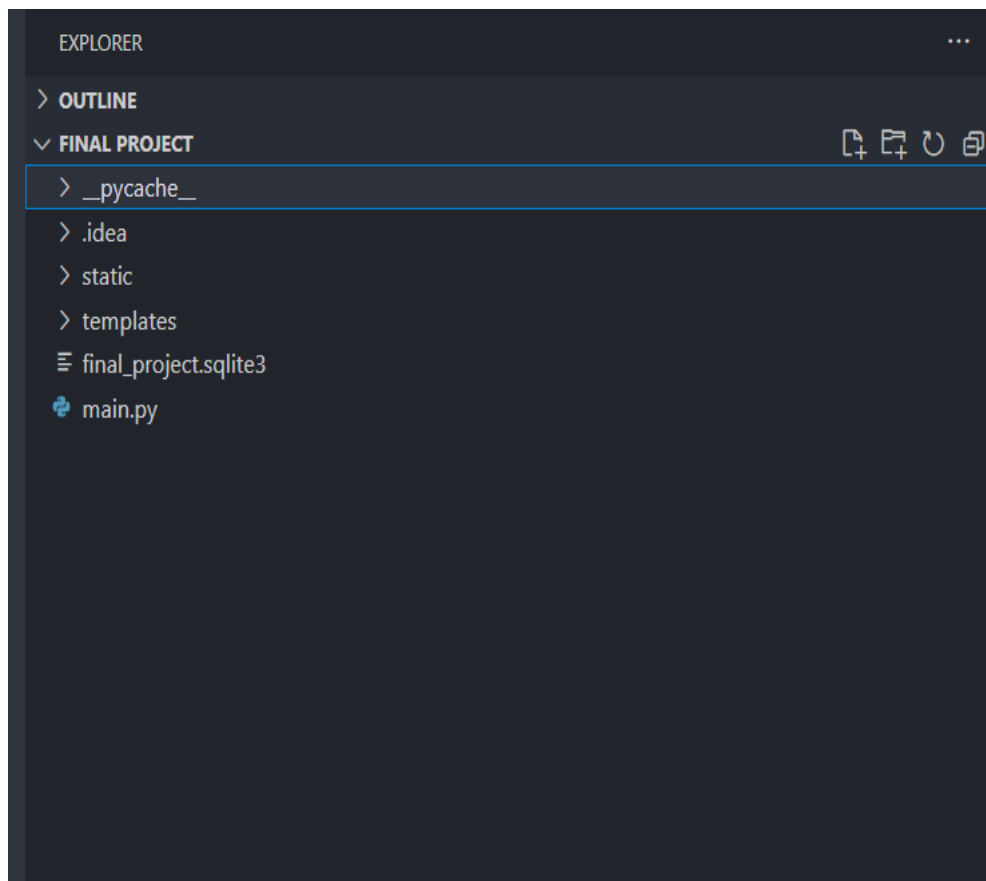
For the final project of MAD-1 we were given the task to create a tracking WebApp which can be used as an event logger. Users can register , login to their account and can create different types of tracker they wish to track , log the tracker with their appropriate values and can also update and delete the tracker and the logs. The user can also view their logged values in the form of a graph.

## TECHNOLOGIES USED

The technologies used are as follows:

Python, HTML/CSS, jinja, bootstrap, SQLite, SQLAlchemy, flask login, wtforms

## ARCHITECTURE



The file main.py contains all the essential python and jinja codes required.

The folder static contains all the images and the css files.

The folder templates contains all the html files.

## FEATURES

The main features of the app are –

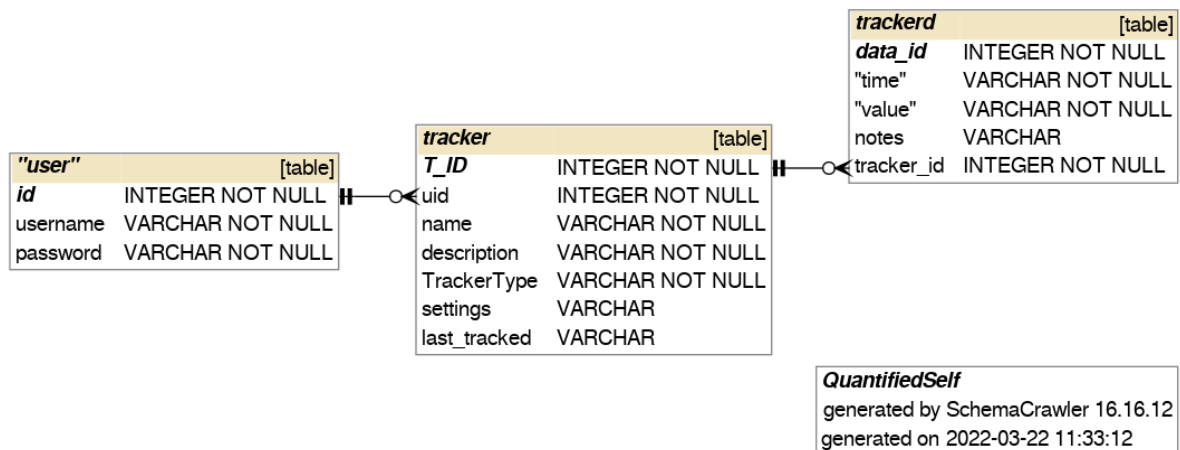
- CRUD operations on tracker.
- CRUD operations on the log values of tracker.
- Generation of graphs based on the tracker type and values.
- A fully functional login and sign up page .
- A dedicated log out option for the user on every page.

## DB SCHEMA DESIGN

Table Name	Columns	Details	Constraints
user	id username password members	Id of the current user Username of the current user Password of the current user Creates a relationship between user and tracker	Integer, primary key String, not nullable String, not nullable
tracker	T_ID uid name description TrackerType settings datas	A unique id for tracker Current user's id Tracker's name Tracker's description Type of tracker Used to put custom values incase a user wishes to create multiple choice tracker Creates relationship between tracker and trackerd	Primary key Foreign key , not nullable String , not nullable String , not nullable String , not nullable String , nullable,default=None

trackerd	data_id	A unique id for the logged value	Primary key
	time	Stores the time of logged value	String , not nullable
	value	Stores the value	String, not nullable
	notes	Stores any notes the user wishes to provide.	String
	tracker_id	Current tracker's id	Foreign key, not nullable

## ER DIAGRAM



## VIDEO LINK

<https://drive.google.com/file/d/1LY8y00ImC3yH5V9dRIzTjjdtisDgMiXm/view?usp=sharing>