

MY JOURNAL

28th May 2021

OVERVIEW

A journaling app made in python based on concepts of database handling and which also includes a GUI made using the tkinter module.

MOTIVATION

We are all facing an unprecedented crisis in today's world. While we're all busy thinking about the physical ramifications of Covid19 , the mental ramifications are mostly ignored. We all need someone to talk to , someone we can vent to. Unfortunately not everyone has someone like that. Venting to a diary can make us feel better.

OBJECTIVES

This app will allow you to make entries after you sign up. It will store your username, password and the date at which you are making the diary entry. The first step is to make sure the person has an existing account. After signing up , the person can simply enter their username, password and make a diary entry. To make this process easier and to ensure that the user isn't confused , a very simple GUI has also been put in place.

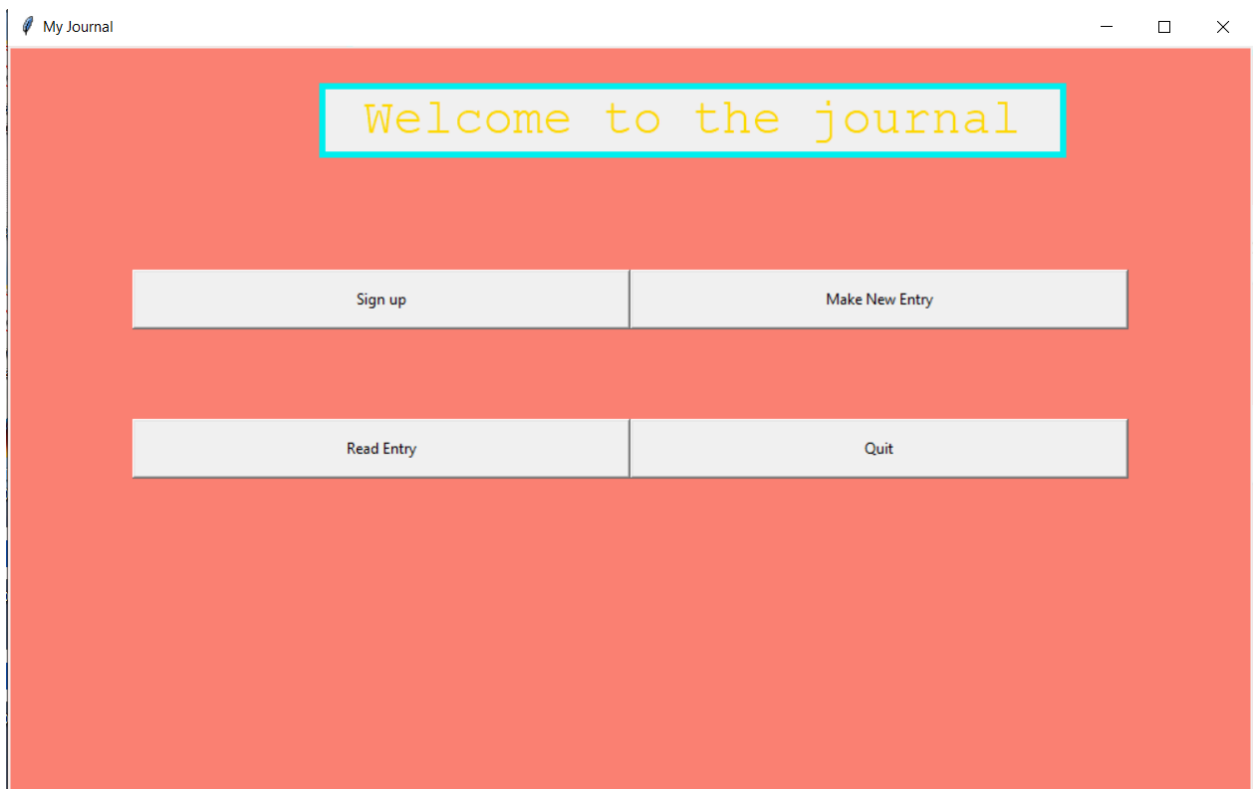
APPROACH/METHODOLOGY

This program is coded in python. The reason that I chose python as the language to code in is because I have just started coding in it and needed the practice. I used MySQL for storing the data. It is easy to access and enter new data into the database using SQL. The GUI is made using the tkinter module. Out of all the GUI methods, tkinter is the most commonly used method.

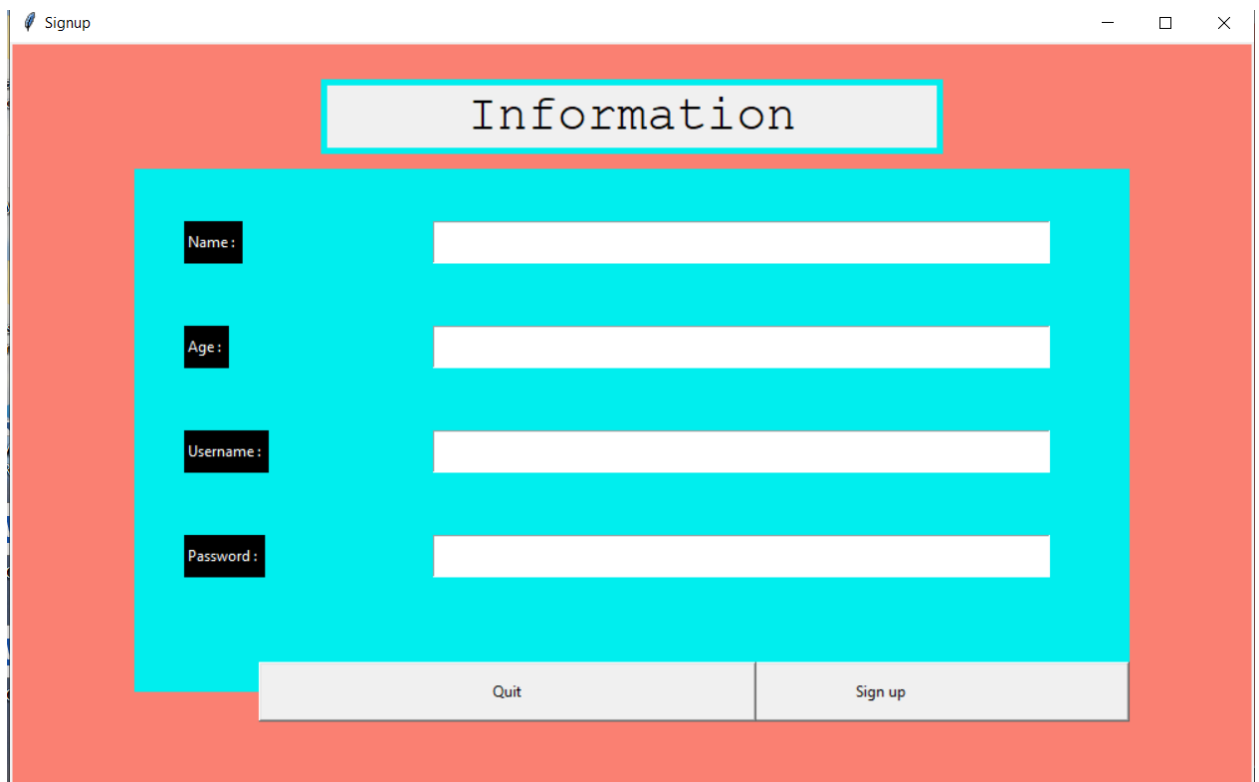
Python with tkinter is the fastest and easiest way to create GUI applications. Instead of actually going through tons of notebooks to read any previous entry, , this app will store all your entries in one place so that when you want to read your previous entries, you can simply enter the date of the entry you want to read and it will be in front of you. I had to first learn how to insert data into a SQL table using python. Finally through trial and error figured out how to do that. After that the GUI had to be built. Used the tkinter module since it is the easiest to figure out. Took a while to use the different commands properly. . The concepts required to build this were slightly difficult , although the program itself is very basic , just data entry into a table and it's display.

DISPLAY/ GUI

1. The Welcome Page



2. The Signup Page



The Signup page is displayed in a window titled "Signup". It features a light red background. At the top center, there is a light gray box with the word "Information" in a monospace font. Below this, a cyan rectangular area contains four input fields. Each field is preceded by a black label box: "Name:", "Age:", "Username:", and "Password:". The input fields are white with black borders. At the bottom of the cyan area, there is a light gray bar containing two buttons: "Quit" and "Sign up".

3. The Make New Entry Page



The Make New Entry page is displayed in a window titled "New Entry". It features a light red background. At the top center, there is a light gray box with the words "New Entry" in a monospace font. Below this, a cyan rectangular area contains four input fields. Each field is preceded by a black label box: "User Name:", "Password:", "Date", and "Entry". The input fields are white with black borders. At the bottom of the cyan area, there is a light gray bar containing two buttons: "Diary Entry" and "Quit".

4. The Read Entry Page

The image shows a Tkinter window titled "Read" with a red background. At the top center, there is a light gray rectangular box containing the text "Read Entry". Below this, centered on the window, is a cyan-colored rectangular box. Inside the cyan box, there are three input fields, each preceded by a label in a black box: "User Name:", "Password:", and "Date:". Below the cyan box, at the bottom of the window, are two light gray buttons labeled "Read" and "Quit".

REFERENCES

1. W3SCHOOLS: Python
2. GeeksforGeeks: Python GUI tkinter