

**S.B.O.A. SCHOOL AND JUNIOR COLLEGE**

Anna Nagar Western Extension, Chennai - 600 101

**PROJECT REPORT**

**2020– 2021**

**Name :**

**Standard : Sec :**

**Reg. No :**

**Title of the Project :**

**BONAFIDE CERTIFICATE**

**Certified to be the bonafide project work doneby ……………………………………………………………… of Std…………………………… in the……………………………………………………………… laboratory of S.B.O.A. School & Junior College, Chennai - 600 101 duringthe year 2020 - 2021.**

**Date : Teacher-in-Charge**

**Submitted for the ……………………………………………………………………**

**examination held in the year 2020 - 2021 at S.B.O.A. School and Junior**

**College.Chennai - 600 101.**

**External Examiner Internal Examiner**

Acknowledgements

Teacher’s Assistant

This is a project which deals with the daily activities of a teacher , assisting them using python , a stepping stone and a basic representation of the initiative taken for teachers to make their works in their classes easier.

It also facilitates the backup process (using SQL) and searching techniques that will be useful while searching any data . Although this project is not initiated with a server , The server is required to encrypt and store databases in the server so that the app doesn’t take more space in the client’s device , as well as the transfer is secure.

Tkinter has been used to make the application more interactive instead of programming and using in command prompt that will be simple , yet inappropriate when it comes to this project.

For Each user , a database is stored using MySQL in which it contains the

Program Files

**animation.py \_\_main\_\_**

this is the introductory page that uses tkinter GUI to display some transition animations using for loop , playing background music using playsound module along with the animation via threading . Threading makes playing music and playing animation at same time simultaneously . after the animation ends , it opens the module created for login page

**login\_page.py module**

this is the page which ensures the authorization and authentication of a particular teacher to deal with their resources and carry out their particular tasks.

**creaccnt.py module**

used to create user accounts and demand their databases from the school server to be stored in their account database

**forgotpsw.py module**

service to renew the password , verifications can be added for safety , but this is beyond the scope of our level

**welcome.py module**

the page that shows the services as soon as the user enters a valid login id and password in login page. It is improvised with time clock and proverbs for teachers

**timetable.py module**

this is to show the timetable of the user(teacher)’s class in which he/she is in charge of

**attendance.py module**

the window which shows viewing and taking attendence

**view\_atten.py module**

used to view the attendance of a particular date of the class in which the teacher is in charge

**take\_atten.py module**

used to take the attendance of the day of logging in , for the class in which the teacher is in charge

**login.csv CSV File**

the csv file which stores login id , password and class of incharge of users (teachers)

Modules used

**tkinter ( tk , ttk , messagebox )**  **:** The main GUI used to represent our project

**tkcalendar :** the tkinter calendar widget used to get dates to view attendance information on that particular day

**mysql.connector :** The back-end mysql database storage connectivity

**csv :** used to store basic information before entering the database system

**datetime :** used to match our program with real time

**time :** used for delay commands

**sys :** used to terminate the entire program when quit button is pressed

**playsound :** used to play the intro animation sound

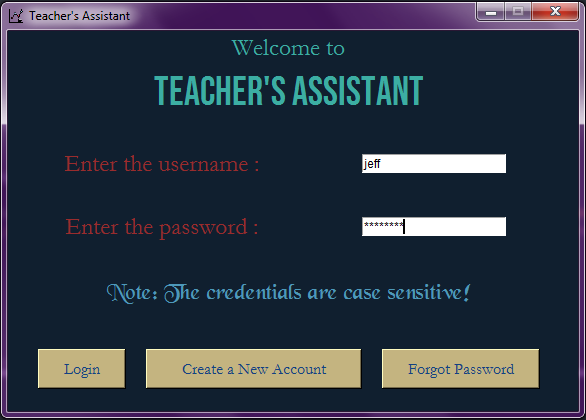
**threading :** used to thread the music and tkinter events together (Parallelism)

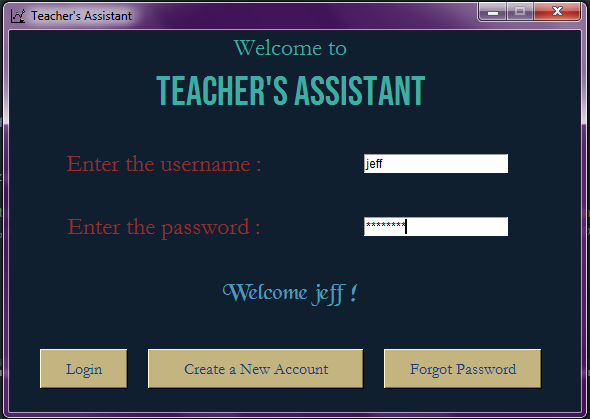
Sample Output

Animation.py : after intro ends



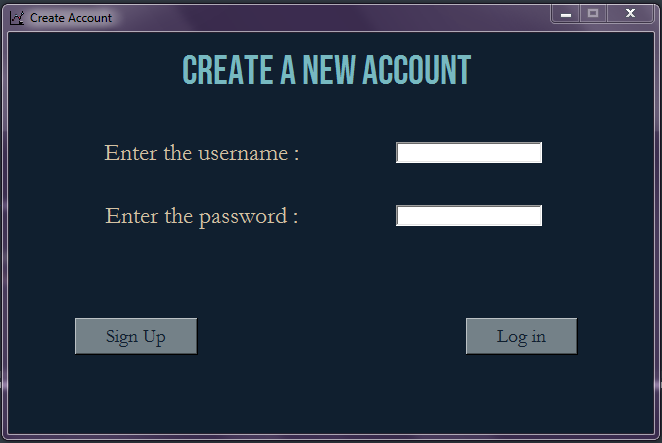
Login\_page.py : entering details

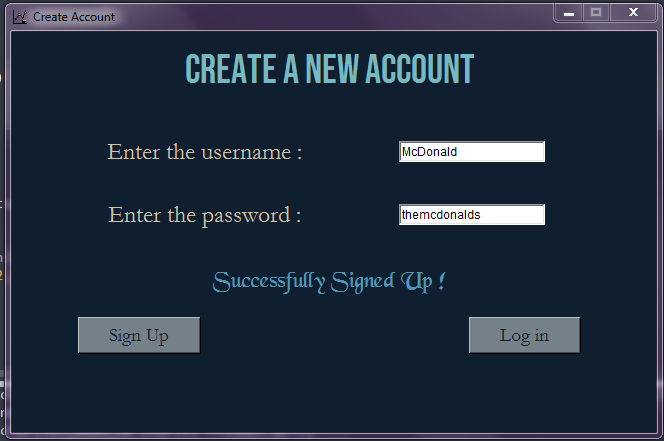




login\_page.py :

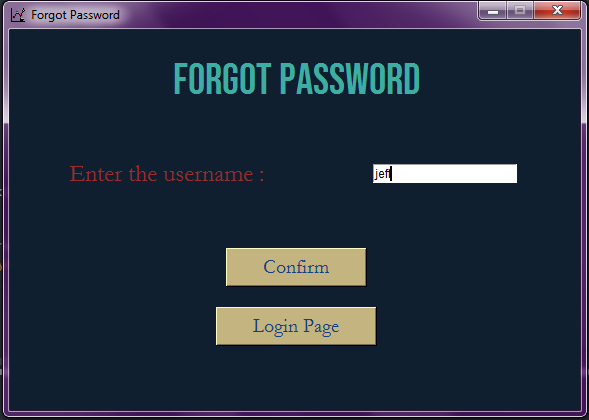
Successful login

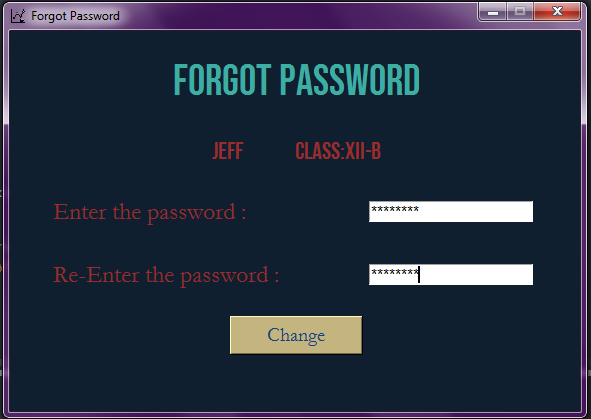


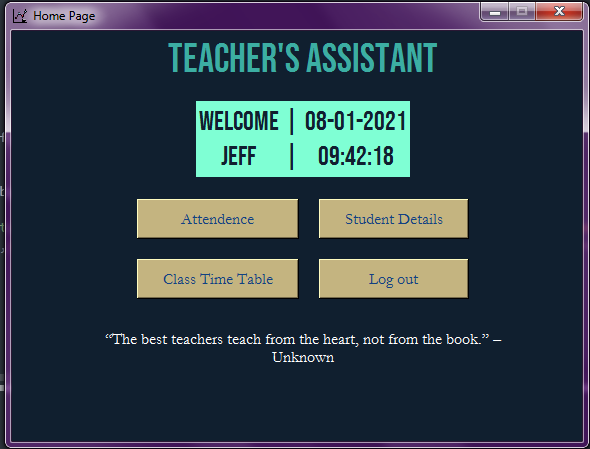


creaccnt.py

creaccnt.py : sign up







forgotpsw.py

forgotpsw.py :

password changing

welcome.py

