

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

Anna Nagar Western Extension, Chennai - 600 101

**PROJECT REPORT**

**2020– 2021**

**Name : A. Albert Richard**

**Standard : XII Sec : E**

**Reg. No :**

**Title of the Project : Teacher’s Assistant**

**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 app more interactive instead of programming and using in command prompt that will be simple , yet inappropriate when it comes to this project.

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

forgotpsw.py module

welcome.py module

timetable.py module

attendance.py module

view\_atten.py module

take\_atten.py module

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)