

**User**

**Customisable**

**VOTING POLL**

**Done by**

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## **FEASIBILITY STUDY**

This feasibility study evaluates the development of polling software designed for businesses, educational institutions, and event organizers. The software aims to facilitate real-time feedback collection and decision-making. Initial assessments indicate strong market demand and potential profitability.

## **ECONOMIC FEASIBILITY**

This economic feasibility study evaluates the financial viability of developing polling software targeted at businesses, educational institutions, and event organizers.

## **TECHNICAL FEASIBILITY**

Technical feasibility centres on the existing computer system and its ability to support the proposed task. This involves financial consideration to accommodate technical enhancements. It is technically feasible because the technology needed to develop this software is easily available.

# **ERRORS AND THEIR TYPES**

An error, sometimes called “A BUG” is anything in the code that prevents a program from compiling and running correctly. There are broadly three types of errors as follows:

**1. Compile-time errors:** Errors that occur during the compilation of a program are called compile-time errors. It has two types as follows:

**a. Syntax error:** It refers to formal rules governing the construction of valid statements in a language.

**b. Semantics error:** It refers to the set of rules which give the meaning of a statement.

**2. Run-time Errors:** Errors that occur during the execution of the program are run-time errors. Some run-time error stops the execution of the program which is then called program “Crashed”.

**3. Logical Errors:** Sometimes, even if you don't encounter any error during compiling time and runtime, your program does not provide the correct result. This is because of the programmer's mistaken analysis of the problem he or she is trying to solve. Such errors are called logical errors.

# **TESTING**

**Alpha Testing:** The objective of this testing is to identify all possible issues or defects before releasing it into the market or to the user. It is conducted at the developer's site.

**Beta Testing:** It is a formal type of software testing which is carried out by the customers. It is performed in a real environment before releasing the products into the market for the actual end-users. It is carried out to ensure that there are no major failures in the software or product and that it satisfies the business requirement. Beta Testing is successful when the customer accepts the software.

**White Box Testing:** It is software testing based on the knowledge of the internal logic of an application's code. It is also known as Glass box Testing. Internal Software and code working should be known for performing this type of testing. These tests are based on the coverage of the code statements, branches, paths, conditions etc.

**Black Box Testing:** It is a software testing, method in which the internal structure or design of the item to be tested is not known to the tester. This method of testing can be applied virtually to every level of software testing.

# **MAINTENANCE**

Programming maintenance refers to the modifications in the program. After it has been completed, to meet changing requirements or to take care of the errors that show up. There are four types of maintenance:

## **Corrective Maintenance:**

When the program after compilation shows errors because of some unexpected situations, untested areas such errors are fixed by Corrective maintenance.

## **Adaptive Maintenance:**

Changes in the environment in which an information system operates may lead to system management. To accommodate changing needs from time-to-time maintenance is done and is called Adaptive maintenance.

## **Preventive Maintenance:**

If possible, errors could be anticipated before they occur, called preventive maintenance.

## **Perfective Maintenance:**

In this rapidly changing world, information technology is the fastest-growing area. If the existing system is maintained to keep tuned with new features, facilities, and capabilities, it is said to be Perfective Maintenance.

# **PROJECT SYNOPSIS**

## **Project Title: User customizable VOTING POLL**

### **Problem definition:**

Organizations today struggle to gather timely and actionable feedback due to inefficient traditional polling methods. Existing digital solutions often lack customization, real-time analytics, and user-friendly interfaces, leading to underutilization.

### **Reason for choosing this:**

I wanted to create a user-customizable polling software with GUI allowing users to create and conduct polls.

### **Objective:**

To create, host locally, and retrieve results of a poll.

### **Limitation:**

It only functions on local computers, necessitating the consolidation of results from multiple devices after polling is completed.

## **PROJECT DETAILS**

The poll software was developed by Yuhanth using Python.

### **Modules used:**

- OS
- SYS
- CSV
- Pickle
- Random
- Tkinter
- Matplotlib
- Datetime
- Cryptography

## **SYSTEM REQUIREMENTS**

### **Hardware:**

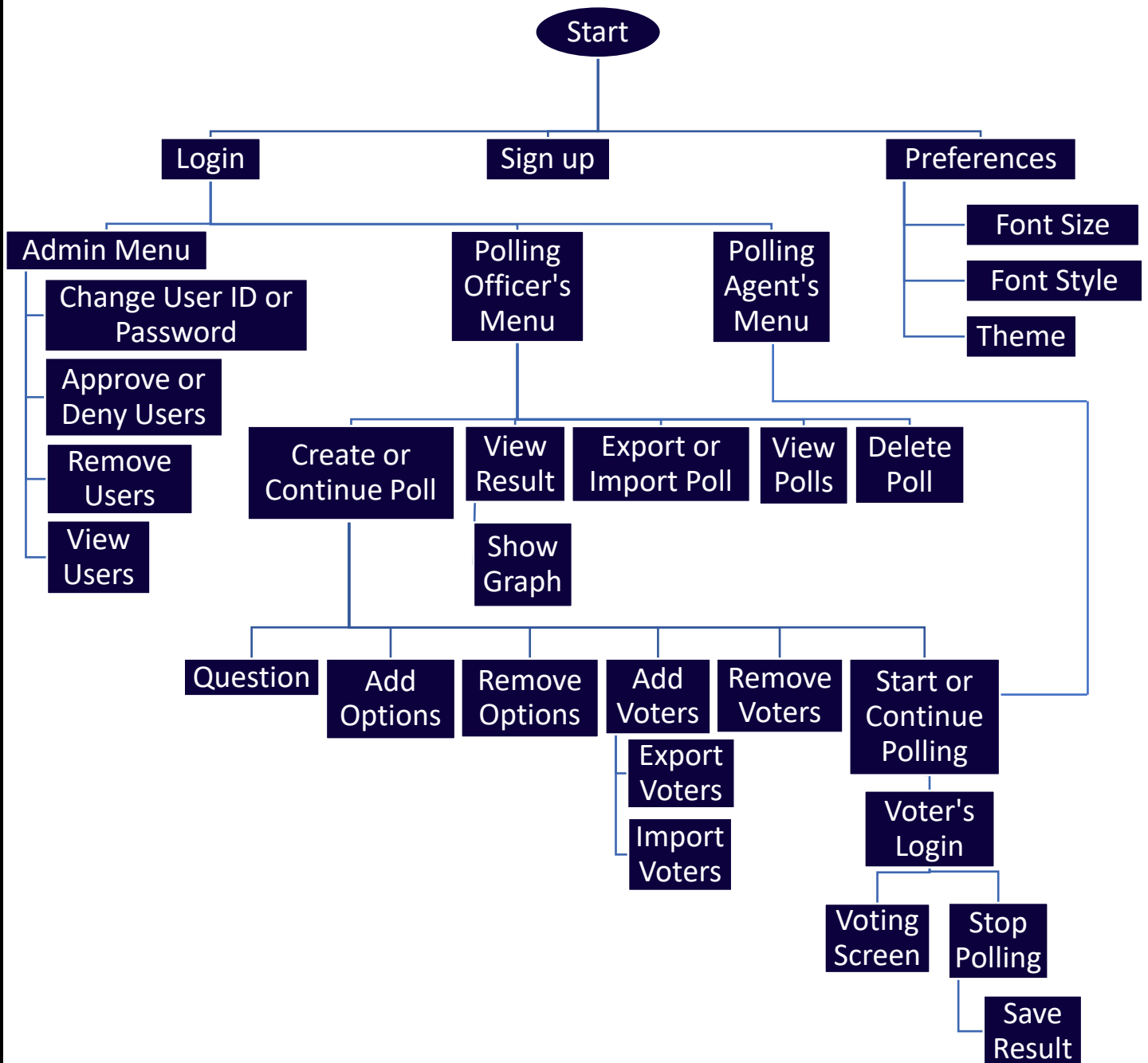
- A computer or laptop
- 2 GB RAM or higher
- Any processor
- At least 1 GB of free space

### **Software:**

- Any operating system able to run .exe files
- Poll.exe file



# Flowchart



# Code

```
import os
import sys
import csv
import pickle
import random
import tkinter as TK
from tkinter import
messagebox, Toplevel, ttk, Tk, Entry, Button, Label, OptionMenu, filedialog, Frame, Listbox
from matplotlib.figure import Figure
from matplotlib.backends.backend_tkagg import FigureCanvasTkAgg
from matplotlib.ticker import MaxNLocator
from datetime import datetime as DT
from cryptography.fernet import Fernet
def MAIN():
    global key, main_dir, LoggedIn_Flag, current_poll
    app_dir=os.getcwd()
    if not os.path.exists('YUHANATH Poll_Project_Data'):
        os.mkdir('YUHANATH Poll_Project_Data')
        main_dir=app_dir+'\\YUHANATH Poll_Project_Data'
        os.chdir(main_dir)
        with open("secret.key", "wb") as key_file:
            key_file.write(Fernet.generate_key())
    main_dir=app_dir+'\\YUHANATH Poll_Project_Data'
    os.chdir(main_dir)
    try:
        key=open("secret.key", "rb").read()
    except:
        with open("secret.key", "wb") as key_file:
            key_file.write(Fernet.generate_key())
        key=open("secret.key", "rb").read()
        with open('Preferences.dat', 'wb') as f:
            pickle.dump(encrypt_msg(str([5, 'Arial', 'Default', 'admin', 'admin'])), f)
    if not os.path.exists('NonApprovedUsers.csv'):
        open('NonApprovedUsers.csv', 'x').close()
    if not os.path.exists('User_Details.csv'):
        open('User_Details.csv', 'x').close()
    if not os.path.exists('Preferences.dat'):
        with open('Preferences.dat', 'wb') as f:
            pickle.dump(encrypt_msg(str([5, 'Arial', 'Default', 'admin', 'admin'])), f)
    LoggedIn_Flag=False
    current_poll=None
    UserDictRefresh()
    FontAndThemeRefresher()
    TkinWelcome()
def encrypt_msg(message):
    fernet = Fernet(key)
```

```

        encrypted_message = fernet.encrypt(message.encode())
    return encrypted_message
def decrypt_msg(encrypted_message):
    fernet = Fernet(key)
    decrypted_message = fernet.decrypt(encrypted_message).decode()
    return decrypted_message
def PreferenceLoader():
    global fontsize,fontstyle,theme,AdminUID,AdminPass
    with open('Preferences.dat','rb') as f:
        try:
            PreferenceList=eval(decrypt_msg(pickle.load(f)))
        except:
            PreferenceList=[5,'Arial','Default','admin','admin']
    fontsize=PreferenceList[0]
    fontstyle=PreferenceList[1]
    theme=PreferenceList[2]
    AdminUID=PreferenceList[3]
    AdminPass=PreferenceList[4]
def PreferenceWriter():
    os.chdir(main_dir)
    with open('Preferences.dat','wb') as f:
        pickle.dump(encrypt_msg(str([fontsize,fontstyle,theme,AdminUID,AdminPass])
),f)
def FontAndThemeRefresher():
    global
MainTitleTextFont,TitleTextFont,TextFont1,TextFont2,TextFont3,TextFont4,ButtonFont
1,ButtonFont2,ButtonFont2Bold,ButtonFont3,ColourCodeMain,ColourCodeButtonBG,Colour
CodeButtonFG,ColourCodeText
    PreferenceLoader()
    MainTitleTextFont=(fontstyle,fontsize*12,'bold')
    TitleTextFont=(fontstyle,fontsize*12,'bold')
    TextFont1=(fontstyle,fontsize*8)
    TextFont2=(fontstyle,fontsize*6)
    TextFont3=(fontstyle,fontsize*5)
    TextFont4=(fontstyle,fontsize*4)
    ButtonFont1=(fontstyle,fontsize*8)
    ButtonFont2=(fontstyle,fontsize*6)
    ButtonFont2Bold=(fontstyle,fontsize*6,'bold')
    ButtonFont3=(fontstyle,fontsize*5)
    if theme=='Default':
        ColourCodeMain='#0C003D'
        ColourCodeButtonBG='#92C7CF'
        ColourCodeButtonFG='#000000'
        ColourCodeText='#FFFFFF'
    elif theme=='Light':
        ColourCodeMain='#5e5e5e'
        ColourCodeButtonBG='#000000'
        ColourCodeButtonFG='#5e5e5e'

```

```

        ColourCodeText='#000000'
elif theme=='Dark':
    ColourCodeMain='#000000'
    ColourCodeButtonBG='#ababab'
    ColourCodeButtonFG='#000000'
    ColourCodeText='#ababab'
def IncreaseFontSize():
    global fontsize
    fontsize+=1
    PreferenceWriter()
    FontAndThemeRefresher()
    Preferences_Window.destroy()
    TkinPreferences()
def DecreaseFontSize():
    global fontsize
    fontsize=max(2,fontsize-1)
    PreferenceWriter()
    FontAndThemeRefresher()
    Preferences_Window.destroy()
    TkinPreferences()
def ChangeFontStyle(*a):
    global fontstyle,theme
    fontstyle=FontStyle_var.get()
    theme=Theme_var.get()
    PreferenceWriter()
    FontAndThemeRefresher()
    Preferences_Window.destroy()
    TkinPreferences()
def UserDictRefresh():
    global users_dict,NonApprovedUsers_Dict
    os.chdir(main_dir)
    users_dict={}
    NonApprovedUsers_Dict={}
    with open('User_Details.csv') as f:
        r=csv.reader(f)
        for i in r:
            users_dict[decrypt_msg(eval(i[0]))]=[decrypt_msg(eval(i[1])),decrypt_m
sg(eval(i[2])),decrypt_msg(eval(i[3]))]
    with open('NonApprovedUsers.csv') as f:
        r=csv.reader(f)
        for i in r:
            NonApprovedUsers_Dict[decrypt_msg(eval(i[0]))]=[decrypt_msg(eval(i[1])
),decrypt_msg(eval(i[2]))]
def SignUp():
    UserDictRefresh()
    name_flag=u_ID_flag=pass_flag=False
    name=name_entry.get()
    if len(name)==0 or name.isspace():

```

```

        messagebox.showerror('Error','Field can\'t be empty(Name)')
    else:
        name_flag=True
    u_ID=userID_entry.get()
    if len(u_ID)==0 or u_ID.isspace():
        messagebox.showerror('Error','Field can\'t be empty(User ID)')
    else:
        u_ID_flag=True
    if u_ID in users_dict or u_ID in NonApprovedUsers_Dict or u_ID==AdminUID:
        messagebox.showerror('Error','User ID already exists('+u_ID+')')
        u_ID_flag=False
    pass_word=password_entry.get()
    if len(pass_word)==0 or pass_word.isspace():
        messagebox.showerror('Error','Field can\'t be empty>Password)')
    else:
        pass_flag=True
    pass_word_c=confirm_password_entry.get()
    if name_flag==True and u_ID_flag==True and pass_flag==True:
        if pass_word==pass_word_c:
            with open('NonApprovedUsers.csv','a',newline='') as f:
                w=csv.writer(f)
                w.writerow([encrypt_msg(str(u_ID)),encrypt_msg(str(pass_word)),encrypt_msg(str(name))])
                SignUpWindow.destroy()
                messagebox.showinfo('Signed up successfully','Signed up successfully ('+name+')\nPlease wait for the admin to approve')
                WelcomeWindow.deiconify()
            else:
                messagebox.showerror('Error','Passwords do not match')
def Login():
    global Login_user_ID,LoggedIn_Flag,current_PASS,current_designation
    UserDictRefresh()
    if not os.path.exists('User_Details.csv'):
        open('User_Details.csv','x').close()
    with open('User_Details.csv') as f:
        r=csv.reader(f)
        for i in r:
            users_dict[i[0]]=[i[1],i[2],i[3]]
    if LoggedIn_Flag==False:
        Login_user_ID=UserID_entry.get()
        password=Password_entry.get()
        if len(Login_user_ID)==0 or Login_user_ID.isspace():
            messagebox.showerror('Error','Field can\'t be empty(User ID)')
        elif Login_user_ID==AdminUID and password==AdminPass:
            login_button.config(state=TK.DISABLED)
            LoginWindow.withdraw()
            LoggedIn_Flag=True
            LoginWindow.unbind('<Return>')

```

```

        TkinAdminMenu()
    elif LogIn_user_ID==AdminUID:
        messagebox.showerror('Log','Incorrect password')
    elif LogIn_user_ID in users_dict:
        if password==users_dict[LogIn_user_ID][0]:
            current_PASS=users_dict[LogIn_user_ID][0]
            LoginWindow.withdraw()
            if users_dict[LogIn_user_ID][2]=='Polling officer':
                login_button.config(state=TK.DISABLED)
                LoggedIn_Flag=True
                LoginWindow.unbind('<Return>')
                POfficerMenu()
            elif users_dict[LogIn_user_ID][2]=='Polling agent':
                login_button.config(state=TK.DISABLED)
                LoggedIn_Flag=True
                LoginWindow.unbind('<Return>')
                TkinPAgent()
            else:
                messagebox.showerror('Error','Designation error')
                LoginWindow.deiconify()
                current_designation=users_dict[LogIn_user_ID][2]
        else:
            messagebox.showerror('Log','Incorrect password')
    elif LogIn_user_ID in NonApprovedUsers_Dict:
        messagebox.showerror('Log','Wait for Admin to approve or deny your
request')
    else:
        messagebox.showerror('Log','**No such user ('+LogIn_user_ID+')**')
def ChangeUIDAdmin():
    global AdminUID
    UserDictRefresh()
    NewUID_flag=CurrentPass_flag=False
    NewUID=NewUID_entry.get()
    if len(NewUID)==0 or NewUID.isspace():
        messagebox.showerror('Error','Field can\'t be empty (Current password)')
    else:
        NewUID_flag=True
    CurrentPass=CurrentPassword_entry.get()
    if len(CurrentPass)==0 or CurrentPass.isspace():
        messagebox.showerror('Error','Field can\'t be empty (New password)')
    else:
        CurrentPass_flag=True
    if NewUID_flag==True and CurrentPass_flag==True:
        if CurrentPass==AdminPass:
            if NewUID not in users_dict and NewUID not in NonApprovedUsers_Dict:
                AdminUID=NewUID
                PreferenceWriter()
                PreferenceLoader()

```

```

        ChangeUIDWindow.destroy()
        messagebox.showinfo('Successfully changed','User ID changed
successfully')
        Admin_window.deiconify()
    else:
        messagebox.showerror('Error','User ID already exists('+NewUID+')')
    else:
        messagebox.showerror('Error','Current password incorrect')
def ChangePassAdmin():
    global AdminPass
    CurrentPass_flag=NewPass_flag=False
    CurrentPass=CurrentPassword_entry.get()
    if len(CurrentPass)==0 or CurrentPass.isspace():
        messagebox.showerror('Error','Field can\'t be empty (Current password)')
    else:
        CurrentPass_flag=True
    NewPass=NewPassword_entry.get()
    if len(NewPass)==0 or NewPass.isspace():
        messagebox.showerror('Error','Field can\'t be empty (New password)')
    else:
        NewPass_flag=True
    ReNewPass=ReNewPassword_entry.get()
    if CurrentPass_flag==True and NewPass_flag==True:
        if CurrentPass==AdminPass:
            if NewPass==ReNewPass:
                AdminPass=NewPass
                PreferenceWriter()
                PreferenceLoader()
                ChangePassWindow.destroy()
                messagebox.showinfo('Password changed successfully','Password
changed successfully')
                Admin_window.deiconify()
            else:
                messagebox.showerror('Error','New passwords do not match')
        else:
            messagebox.showerror('Error','Current password incorrect')
def ApproveUser():
    UserDictRefresh()
    try:
        selected_index = Non_Approved_user_listbox.curselection()[0]
        Approve_UID = Non_Approved_user_listbox.get(selected_index)
        designation=designation_var.get()
        if designation=='Polling officer' or designation=='Polling agent':
            password=NonApprovedUsers_Dict[Approve_UID][0]
            name=NonApprovedUsers_Dict[Approve_UID][1]
            with open('User_Details.csv','a',newline='') as f:
                w=csv.writer(f)

```

```

        w.writerow([encrypt_msg(Approve_UID),encrypt_msg(password),encrypt
_msg(name),encrypt_msg(designation)])
        NonApprovedUsers_Dict.pop(Approve_UID)
        with open('NonApprovedUsers.csv','w',newline='') as f:
            w=csv.writer(f)
            for i in NonApprovedUsers_Dict:
                w.writerow([encrypt_msg(i),encrypt_msg(NonApprovedUsers_Dict[i
][0]),encrypt_msg(NonApprovedUsers_Dict[i][1])])
                messagebox.showinfo('Successfull','Successfully approved')
                ApproveUserWindow.destroy()
                TkinApproveUser()
            else:
                messagebox.showerror('Error','Designation not selected')
except IndexError:
    messagebox.showerror('Error','No user selected')
def DenyUser():
    UserDictRefresh()
    try:
        selected_index = Non_Approved_user_listbox.curselection()[0]
        Deny_UID = Non_Approved_user_listbox.get(selected_index)
        NonApprovedUsers_Dict.pop(Deny_UID)
        with open('NonApprovedUsers.csv','w',newline='') as f:
            w=csv.writer(f)
            for i in NonApprovedUsers_Dict:
                w.writerow([encrypt_msg(i),encrypt_msg(NonApprovedUsers_Dict[i][0
]),encrypt_msg(NonApprovedUsers_Dict[i][1])])
                messagebox.showinfo('Successfull','Successfully denied')
                ApproveUserWindow.destroy()
                TkinApproveUser()
            except IndexError:
                messagebox.showerror('Error','No user selected')
def RemoveUser():
    rem_u_name=Rem_UID_entry.get()
    rem_flag=False
    if len(rem_u_name)==0 or rem_u_name.isspace():
        messagebox.showerror('Error','Field can\'t be empty(Name)')
    else:
        with open('User_Details.csv','w',newline='') as f:
            w=csv.writer(f)
            for i in users_dict:
                if i==rem_u_name:
                    rem_flag=True
                    RemUserWindow.destroy()
                    messagebox.showinfo('Added Successfully','User removed
successfully ('+rem_u_name+')')
                    Admin_window.deiconify()
                    continue
            w.writerow([i,users_dict[i][0],users_dict[i][1],users_dict[i][2]])

```



```

        if rem_flag==False:
            messagebox.showerror('Error','User not found')
def POfficerMenu():
    global current_poll
    if not os.path.exists('Polls'):
        os.mkdir('Polls')
    os.chdir(main_dir+'\\Polls')
    TkinPollSelector()
def DisablePollSlectorWindowButtons():
    Logout_button.config(state=TK.DISABLED)
    CreatePoll_button.config(state=TK.DISABLED)
    ContinuePoll_button.config(state=TK.DISABLED)
    ViewResult_button.config(state=TK.DISABLED)
    ImportPoll_button.config(state=TK.DISABLED)
    ExportPoll_button.config(state=TK.DISABLED)
    ViewPolls_button.config(state=TK.DISABLED)
    DeletePoll_button.config(state=TK.DISABLED)
def EnablePollSlectorWindowButtons():
    Logout_button.config(state=TK.NORMAL)
    CreatePoll_button.config(state=TK.NORMAL)
    ContinuePoll_button.config(state=TK.NORMAL)
    ViewResult_button.config(state=TK.NORMAL)
    ImportPoll_button.config(state=TK.NORMAL)
    ExportPoll_button.config(state=TK.NORMAL)
    ViewPolls_button.config(state=TK.NORMAL)
    DeletePoll_button.config(state=TK.NORMAL)
def CreatePoll():
    global current_poll
    os.chdir(main_dir+'\\Polls')
    file=filename_entry.get()
    if len(file)==0 or file.isspace():
        DisablePollSlectorWindowButtons()
        messagebox.showerror('Error','Field can\'t be empty (Poll_Name)')
        EnablePollSlectorWindowButtons()
    else:
        try:
            os.mkdir(file)
            os.chdir(file)
            current_poll=file
            Creation_Time=DT.now().strftime('%d %B %Y')+ ' at '
            '+DT.now().strftime('%H:%M:%S')
            with open(current_poll+'_Info.txt','w') as f:
                f.write(users_dict[LogIn_user_ID][1]+'\\n'+Creation_Time)
            messagebox.showinfo('Created Successfully','Poll created successfully ('+file+')')
            TkinPOfficerMenu()
        except FileExistsError:
            DisablePollSlectorWindowButtons()

```

```

        messagebox.showerror('Error','Poll already exists ('+file+')')
        EnablePollSlectorWindowButtons()
def ContinuePoll():
    global current_poll
    os.chdir(main_dir+'\\Polls')
    file=filename_entry.get()
    if len(file)==0 or file.isspace():
        DisablePollSlectorWindowButtons()
        messagebox.showerror('Error','Field can\'t be empty (Poll_Name)')
        EnablePollSlectorWindowButtons()
    else:
        try:
            os.chdir(file)
            current_poll=file
            if current_designation=='Polling officer':
                TkinPOfficerMenu()
            elif current_designation=='Polling agent':
                PAgent_Window.withdraw()
                TkinVoterLogin()
        except FileNotFoundError:
            if current_designation=='Polling officer':
                DisablePollSlectorWindowButtons()
                messagebox.showerror('Error','Poll does not exist ('+file+')')
                EnablePollSlectorWindowButtons()
            elif current_designation=='Polling agent':
                ContinuePoll_button.config(state=TK.DISABLED)
                messagebox.showerror('Error','Poll does not exist ('+file+')')
                ContinuePoll_button.config(state=TK.NORMAL)
def ViewResult():
    global current_poll
    os.chdir(main_dir+'\\Polls')
    file=filename_entry.get()
    if len(file)==0 or file.isspace():
        DisablePollSlectorWindowButtons()
        messagebox.showerror('Error','Field can\'t be empty (Poll_Name)')
        EnablePollSlectorWindowButtons()
    else:
        try:
            os.chdir(file)
            current_poll=file
            TkinViewResult()
        except FileNotFoundError:
            DisablePollSlectorWindowButtons()
            messagebox.showerror('Error','Poll does not exist ('+file+')')
            EnablePollSlectorWindowButtons()
def ExportPoll():
    global current_poll
    os.chdir(main_dir+'\\Polls')

```

```

file=filename_entry.get()
if len(file)==0 or file.isspace():
    DisablePollSlectorWindowButtons()
    messagebox.showerror('Error','Field can\'t be empty (Poll_Name)')
    EnablePollSlectorWindowButtons()
else:
    DisablePollSlectorWindowButtons()
    try:
        os.chdir(file)
        current_poll=file
        ExportLis=[]
        if os.path.exists(current_poll+'_Question.txt'):
            with open(current_poll+'_Question.txt') as f:
                Que=f.read()
                ExportLis.append(Que)
        else:
            ExportLis.append(None)
        if os.path.exists(current_poll+'_Options.txt'):
            with open(current_poll+'_Options.txt') as f:
                Opts=f.read()
                ExportLis.append(Opts)
        else:
            ExportLis.append(None)
        if os.path.exists(current_poll+'_VotersDetails.csv'):
            VotersDetailsLis=[]
            with open(current_poll+'_VotersDetails.csv') as f:
                r=csv.reader(f)
                for i in r:
                    VotersDetailsLis.append(i)
            ExportLis.append(VotersDetailsLis)
        else:
            ExportLis.append(None)
        save_path=filedialog.asksaveasfilename(defaultextension=".yuhpoll",fil
etypes=[("Poll file", "*.yuhpoll")],title="Save As")
        if save_path:
            with open(save_path,'wb') as f:
                pickle.dump(ExportLis,f)
                messagebox.showinfo('Export Successful','Successfully exported')
        else:
            messagebox.showerror('Error','Save path not selected')
    except FileNotFoundError:
        messagebox.showerror('Error','Poll does not exist ('+file+')')
    EnablePollSlectorWindowButtons()
def ImportPoll():
    global current_poll
    os.chdir(main_dir+'\\Polls')
    file=filename_entry.get()
    if len(file)==0 or file.isspace():

```

```

        DisablePollSlectorWindowButtons()
        messagebox.showerror('Error','Field can\'t be empty (Poll_Name)')
        EnablePollSlectorWindowButtons()
    else:
        DisablePollSlectorWindowButtons()
        try:
            current_poll=file
            open_path=filedialog.askopenfilename(title="Open
File",filetypes=[("Poll file", "*.yuhpoll")])
            if open_path:
                with open(open_path,'rb') as f:
                    ImportLis=pickle.load(f)
                if len(ImportLis)==3:
                    os.mkdir(file)
                    os.chdir(file)
                    if not ImportLis[0]==None:
                        with open(current_poll+'_Question.txt','w') as f:
                            f.write(ImportLis[0])
                    if not ImportLis[1]==None:
                        with open(current_poll+'_Options.txt','w') as f:
                            f.write(ImportLis[1])
                    if not ImportLis[2]==None:
                        with
open(current_poll+'_VotersDetails.csv','w',newline='') as f:
                            w=csv.writer(f)
                            w.writerows(ImportLis[2])
                            Import_Time=DT.now().strftime('%d %B %Y')+ ' at
'+DT.now().strftime('%H:%M:%S')
                            with open(current_poll+'_Info.txt','w') as f:
                                f.write(' (Imported)
'+users_dict[LogIn_user_ID][1]+'\\n'+Import_Time)
                                messagebox.showinfo('Import Successful','Successfully imported to
('+file+')')
                                TkinPOfficerMenu()
                            else:
                                messagebox.showerror('Error','Import file not selected')
                            except FileExistsError:
                                messagebox.showerror('Error','Poll already exists ('+file+')')
                                EnablePollSlectorWindowButtons()
def ViewPolls():
    global Polls
    Polls=os.listdir(main_dir+'\\Polls')
def DeletePoll():
    os.chdir(main_dir+'\\Polls')
    file=filename_entry.get()
    if len(file)==0 or file.isspace():
        DisablePollSlectorWindowButtons()
        messagebox.showerror('Error','Field can\'t be empty (Poll_Name)')

```

```

        EnablePollSlectorWindowButtons()
    else:
        try:
            os.remove(file)
            messagebox.showinfo('Deleted successfully','Poll deleted successfully
('+file+')')
        except FileNotFoundError:
            DisablePollSlectorWindowButtons()
            messagebox.showerror('Error','Poll does not exist ('+file+')')
            EnablePollSlectorWindowButtons()
        except:
            DisablePollSlectorWindowButtons()
            messagebox.showerror('Error','Error deleting poll ('+file+')')
            EnablePollSlectorWindowButtons()
def CurrentPollRefresh():
    global
    CurrentQue,CurrentOpt_lis,PollInfo_textLis,NumOfOpts,NumOfVoters,LogText
    if os.path.exists(current_poll+'_Question.txt'):
        with open(current_poll+'_Question.txt') as q_f:
            CurrentQue=q_f.read()
    else:
        CurrentQue='**NOT ADDED**'
    if os.path.exists(current_poll+'_Options.txt'):
        with open(current_poll+'_Options.txt') as o_f:
            CurrentOpt_lis=[]
            for i in o_f.readlines():
                CurrentOpt_lis.append(i)
            for i in range(len(CurrentOpt_lis)):
                CurrentOpt_lis[i]=CurrentOpt_lis[i][:-1]
    else:
        CurrentOpt_lis=['**Options not added**']
    if os.path.exists(current_poll+'_VotersDetails.csv'):
        with open(current_poll+'_VotersDetails.csv') as v_f:
            Voterlis=[]
            r=csv.reader(v_f)
            for i in r:
                Voterlis.append(i[1])
            NumOfVoters=str(len(Voterlis))
    else:
        NumOfVoters='**Voters Not Added**'
    if os.path.exists(current_poll+'_Info.txt'):
        with open(current_poll+'_Info.txt') as f:
            Info=f.readlines()
    else:
        Info=('N.A.','N.A.')
    PollInfo_textLis=[]
    PollInfo_textLis.append('Poll created by '+Info[0]+'\\n')
    PollInfo_textLis.append('Poll created on '+Info[1]+'\\n')

```

```

PollInfo_textLis.append('\n')
PollInfo_textLis.append('Question : '+CurrentQue+'\n')
PollInfo_textLis.append('\n')
if CurrentOpt_lis==['**Options not added**']:
    NumOfOpts=0
else:
    NumOfOpts=len(CurrentOpt_lis)
PollInfo_textLis.append('Number of Options : '+str(NumOfOpts)+'\n')
PollInfo_textLis.append('Options : ')
for i in CurrentOpt_lis:
    PollInfo_textLis.append('\n\t'+i)
PollInfo_textLis.append('\n\n')
PollInfo_textLis.append('Number of Voters : '+NumOfVoters)
def Question():
    que = Question_entry.get()
    if len(que)==0 or que.isspace():
        messagebox.showerror('Error','Field can\'t be empty(Question)')
    else:
        with open(current_poll+'_Question.txt','w') as f:
            f.write(que)
        messagebox.showinfo('Updated Successfully','Question updated
successfully')
        TkinPOMenuRefresh()
def AddOptions():
    options_lis=[]
    if not os.path.exists(current_poll+'_Options.txt'):
        open(current_poll+'_Options.txt','x').close()
    with open(current_poll+'_Options.txt') as f:
        for i in f.readlines():
            options_lis.append(i)
    option = Option_entry.get()
    if len(option)==0 or option.isspace():
        messagebox.showerror('Error','Field can\'t be empty(Option)')
    elif option+'\n' not in options_lis:
        options_lis.append(option+'\n')
        options_lis.sort()
        with open(current_poll+'_Options.txt','w') as f:
            for i in options_lis:
                f.write(i)
        messagebox.showinfo('Added successfully','Option added
successfully('+option+')')
    else:
        messagebox.showerror('Error','Option already entered('+option+')')
        TkinPOMenuRefresh()
def RemoveOption():
    options_list=[]
    try:
        with open(current_poll+'_Options.txt') as f:

```

```

        for i in f.readlines():
            options_list.append(i)
    for i in range(len(options_list)):
        options_list[i]=options_list[i][:-1]
    rem=OptRem_var.get()
    if rem in options_list:
        options_list.remove(rem)
        if len(options_list)>0:
            with open(current_poll+'_Options.txt','w') as f:
                for i in options_list:
                    f.write(i+'\n')
        else:
            os.remove(current_poll+'_Options.txt')
            messagebox.showinfo('Removed successfully','Option removed
successfully('+rem+')')
        else:
            messagebox.showerror('Error','Error while removing')
    except FileNotFoundError:
        messagebox.showerror('Error','Options not added ('+current_poll+')')
    TkinPOMenuRefresh()
def AddVoters():
    voterid_lis=[]
    voters_dict={}
    if not os.path.exists(current_poll+'_VotersDetails.csv'):
        open(current_poll+'_VotersDetails.csv','x').close()
    f=open(current_poll+'_VotersDetails.csv')
    r=csv.reader(f)
    for i in r:
        voterid_lis.append(i[1])
        voters_dict[i[1]]=i[0]
    f.close()
    voter = Voter_entry.get()
    if len(voter)==0 or voter.isspace():
        messagebox.showerror('Error','Field can\'t be empty(Voter_Name)')
    else:
        with open(current_poll+'_VotersDetails.csv','a',newline='') as f:
            w=csv.writer(f)
            while True:
                voter_id=str(random.randrange(100000,1000000))
                if voter_id not in voterid_lis:
                    voterid_lis.append(voter_id)
                    break
                voters_dict[voter_id]=voter
            w.writerow([voter,voter_id])
            messagebox.showinfo('Added successfully','Voter added
successfully\n'+voter+ ' your voter ID is : '+voter_id+'\nPLEASE REMEMBER\n')
            TkinPOMenuRefresh()
def RemoveVoter():

```

```

voters_dict={}
voted_dict={}
if os.path.exists(current_poll+'_VotersDetails.csv'):
    with open(current_poll+'_VotersDetails.csv') as f:
        r=csv.reader(f)
        for i in r:
            voters_dict[i[1]]=i[0]
if os.path.exists(current_poll+'_VotedData.csv'):
    with open(current_poll+'_VotedData.csv') as f:
        r=csv.reader(f)
        for i in r:
            voted_dict[i[0]]=(i[1],i[2])
rem=RemVoter_entry.get()
if rem in voters_dict and rem not in voted_dict:
    RemName=voters_dict[rem]
    del voters_dict[rem]
    if len(voters_dict)>0:
        with open(current_poll+'_VotersDetails.csv','w',newline='') as f:
            w=csv.writer(f)
            for i in voters_dict:
                w.writerow([voters_dict[i],i])
    else:
        os.remove(current_poll+'_VotersDetails.csv')
        messagebox.showinfo('Removed successfully','Voter removed successfully
'+RemName+'('+rem+')')
    elif rem in voters_dict and rem in voted_dict:
        messagebox.showerror('Error','\n'+voted_dict[rem][0]+'('+rem+') has
already voted on '+voted_dict[rem][1])
    else:
        messagebox.showerror('Error','Invalid voter ID.')
else:
    messagebox.showerror('Error','No voter added.')
TkinterPOMenuRefresh()
def ExportVoters():
    if os.path.exists(current_poll+'_VotersDetails.csv'):
        save_path=filedialog.asksaveasfilename(defaultextension=".csv",filetypes=[
("Comma-separated values File", "*.csv")],title="Save As")
        VotersDetailsLis=[]
        with open(current_poll+'_VotersDetails.csv') as f:
            r=csv.reader(f)
            for i in r:
                VotersDetailsLis.append(i)
    if save_path:
        with open(save_path,'a',newline='') as f:
            w=csv.writer(f)
            w.writerows(VotersDetailsLis)
        messagebox.showinfo('Exported successfully','Voters details exported
successfully')

```



```

        else:
            messagebox.showerror('Error','Save path not selected')
    else:
        messagebox.showerror('Error','No voter added.')
    TkinPOMenuRefresh()
def ImportVoters():
    messagebox.showwarning('Warning','Importing voters will replace existing voters!')
    open_path=filedialog.askopenfilename(title="Open File",filetypes=[("Comma-separated values File", "*.csv")])
    if open_path:
        ImportFlag=True
        voteridlis=[]
        voterslis=[]
        with open(open_path) as f:
            r=csv.reader(f)
            for i in r:
                if len(i)==2 and i[1].isdigit():
                    if i[1] not in voteridlis:
                        voterslis.append(i)
                        voteridlis.append(i[1])
                    else:
                        ImportFlag=False
                        messagebox.showerror('Error while importing voters','Voter ID repeated')
                        break
                else:
                    ImportFlag=False
                    messagebox.showerror('Error while importing voters','CSV file not in correct format')
                    break
            if ImportFlag==True:
                with open(current_poll+'_VotersDetails.csv','w',newline='') as f:
                    w=csv.writer(f)
                    w.writerows(voterslis)
                messagebox.showinfo('Imported successfully','Voters details imported successfully')
            else:
                messagebox.showerror('Error','Import file not selected')
    TkinPOMenuRefresh()
def Polling(VID,VName):
    try:
        vote=Options_var.get()
        Vote_Time=DT.now().strftime('%d %B %Y')+ ' at '+DT.now().strftime('%H:%M:%S')
        vote_dict[vote]=str(int(vote_dict[vote])+1)
        voted_dict[VID]=[VName,Vote_Time]
        with open(current_poll+'_PollData.csv','w',newline='') as f:

```

```

        w=csv.writer(f)
        for i in vote_dict:
            w.writerow([i,vote_dict[i]])
    with open(current_poll+'_VotedData.csv','a',newline='') as f:
        w=csv.writer(f)
        w.writerow([VID,VName,Vote_Time])
        messagebox.showinfo('Vote recorded',VName+' ('+VID+') vote recorded.')
except:
    messagebox.showerror('Error','Vote was not recorded.\nPlease try again.')
PollingWindow.destroy()
TkinVoterLogin()
def SaveResult():
    try:
        open(current_poll+'_Result.txt','x').close()
        saved_list=[]
        vote_dict={}
        with open(current_poll+'_PollData.csv')as f:
            r=csv.reader(f)
            for i in r:
                vote_dict[i[0]]=i[1]
        f=open(current_poll+'_Result.txt','a')
        votes_list=[]
        for i in vote_dict:
            votes_list.append(int(vote_dict[i]))
        while len(votes_list)>0:
            max_vote=max(votes_list)
            for i in vote_dict:
                if int(vote_dict[i])==max_vote and i not in saved_list:
                    f.write(i+'-'+str(max_vote)+'\n')
                    saved_list.append(i)
            votes_list.remove(max_vote)
        f.close()
        PostPollingWindow.destroy()
        messagebox.showinfo('Saved successfully','Result saved successfully
('+current_poll+')')
        if current_designation=='Polling officer':
            POfficer_Window.deiconify()
        elif current_designation=='Polling agent':
            PAgent_Window.deiconify()
    except:
        messagebox.showerror('Error','Error while saving result')
def Tkin_closing():
    messagebox.showerror('Error','Use the Back / Logout / Exit button.')
def TkinWelcome():
    global WelcomeWindow
    WelcomeWindow = Tk()
    WelcomeWindow.config(bg=ColourCodeMain)
    WelcomeWindow.title("POLL\t-YUHANATH")

```

```

        Label(WelcomeWindow, text='Welcome to the Voting
Poll!', font=MainTitleTextFont, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*7)
        WELCOMEButtons_frame = Frame(WelcomeWindow, bg=ColourCodeMain)
        WELCOMEButtons_frame.pack(pady=fontsize*4)
        LoginButton =
Button(WELCOMEButtons_frame, text="Login", command=TkinLogIn, font=ButtonFont2, bg=ColourCodeButtonBG, fg=ColourCodeButtonFG)
        LoginButton.pack(side=TK.LEFT, padx=fontsize*3)
        SignUpButton = Button(WELCOMEButtons_frame, text="Sign
up", command=TkinSignup, font=ButtonFont2, bg=ColourCodeButtonBG, fg=ColourCodeButtonFG)
        SignUpButton.pack(side=TK.RIGHT, padx=fontsize*3)
        preferences_button =
Button(WelcomeWindow, text="Preferences", command=TkinPreferences, font=ButtonFont3, bg=ColourCodeButtonBG, fg=ColourCodeButtonFG)
        preferences_button.pack(padx=fontsize*4, side=TK.TOP, anchor=TK.NE)
        exit_button =
Button(WelcomeWindow, text="Exit", command=sys.exit, font=ButtonFont3, bg=ColourCodeButtonBG, fg=ColourCodeButtonFG)
        exit_button.pack(pady=fontsize*3)
        Label(WelcomeWindow, text='\t\t\t\t\t-
Yuhanth', font=TextFont2, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*1)
        Label(WelcomeWindow, text='\t\t\t\t\tXII -
JEE', font=TextFont2, bg=ColourCodeMain, fg=ColourCodeText).pack()
        WelcomeWindow.attributes('-fullscreen', True)
        WelcomeWindow.protocol("WM_DELETE_WINDOW", Tkin_closing)
        WelcomeWindow.mainloop()
def TkinLogIn():
    global UserID_entry, Password_entry, LoginWindow, login_button, LogIn_on_enter
    def Back():
        LoginWindow.destroy()
        WelcomeWindow.deiconify()
    def LogIn_on_enter(event):
        LogIn()
    WelcomeWindow.withdraw()
    LoginWindow=Toplevel(WelcomeWindow)
    LoginWindow.config(bg=ColourCodeMain)
    LoginWindow.title("POLL\t-YUHANTh")
    Label(LoginWindow, text='Welcome to the Voting
Poll!', font=MainTitleTextFont, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*7)
    Label(LoginWindow, text="Login to
continue", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*2)
    back_button =
Button(LoginWindow, text="Back", command=Back, font=ButtonFont3, bg=ColourCodeButtonBG, fg=ColourCodeButtonFG)

```

```

        back_button.pack(side=TK.TOP,anchor=TK.NE,padx=fontsize*4)
        UserIDEntryFrame = Frame(LoginWindow,bg=ColourCodeMain)
        UserIDEntryFrame.pack(pady=fontsize*5)
        Label(UserIDEntryFrame,text="User ID
:",font=TextFont1,bg=ColourCodeMain,fg=ColourCodeText).pack(side=TK.LEFT,
padx=fontsize*3)
        UserID_entry = Entry(UserIDEntryFrame,font=TextFont3,width=fontsize*4)
        UserID_entry.pack(side=TK.RIGHT, padx=fontsize*3)
        PasswordEntryFrame = Frame(LoginWindow,bg=ColourCodeMain)
        PasswordEntryFrame.pack(pady=fontsize*4)
        Label(PasswordEntryFrame,text="Password
:",font=TextFont1,bg=ColourCodeMain,fg=ColourCodeText).pack(side=TK.LEFT,
padx=fontsize*3)
        Password_entry =
Entry(PasswordEntryFrame,font=TextFont3,show="*",width=fontsize*4)
        Password_entry.pack(side=TK.RIGHT, padx=fontsize*3)
        login_button =
Button(LoginWindow,text="Login",command=LogIn,font=ButtonFont2Bold,bg=ColourCodeBu
ttonBG,fg=ColourCodeButtonFG)
        login_button.pack(pady=fontsize*2)
        LoginWindow.bind('<Return>', LogIn_on_enter)
        LoginWindow.resizable(False, False)
        LoginWindow.attributes('-fullscreen', True)
        LoginWindow.protocol("WM_DELETE_WINDOW",Tkinter_closing)
def TkinterSignup():
    global
    SignupWindow,name_entry,userID_entry,designation_var,designation_dropdown,password
_entry,confirm_password_entry
    def Back():
        SignupWindow.destroy()
        WelcomeWindow.deiconify()
        WelcomeWindow.withdraw()
        SignupWindow = Toplevel(WelcomeWindow)
        SignupWindow.config(bg=ColourCodeMain)
        SignupWindow.title("Sign up")
        Label(SignupWindow,text='Welcome to the Voting
Poll!',font=MainTitleTextFont,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=font
size*7)
        Label(SignupWindow,text="Sign up to
continue",font=TextFont1,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*3
)
        back_button =
Button(SignupWindow,text="Back",command=Back,font=ButtonFont3,bg=ColourCodeButtonB
G,fg=ColourCodeButtonFG)
        back_button.pack(side=TK.TOP,anchor=TK.NE,padx=fontsize*4)
        NameEntryFrame = Frame(SignupWindow,bg=ColourCodeMain)
        NameEntryFrame.pack(pady=fontsize*4)

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```

        Label(NameEntryFrame, text="Name
:", font=TextFont2, bg=ColourCodeMain, fg=ColourCodeText).pack(side=TK.LEFT,
padx=fontsize*3)
        name_entry = Entry(NameEntryFrame, font=TextFont2)
        name_entry.pack(side=TK.RIGHT, padx=fontsize*3)
        UsedIDEntryFrame = Frame(SignUpWindow, bg=ColourCodeMain)
        UsedIDEntryFrame.pack(pady=fontsize*4)
        Label(UsedIDEntryFrame, text="User ID
:", font=TextFont2, bg=ColourCodeMain, fg=ColourCodeText).pack(side=TK.LEFT,
padx=fontsize*3)
        userID_entry = Entry(UsedIDEntryFrame, font=TextFont2)
        userID_entry.pack(side=TK.RIGHT, padx=fontsize*3)
        PassEntryFrame = Frame(SignUpWindow, bg=ColourCodeMain)
        PassEntryFrame.pack(pady=fontsize*4)
        Label(PassEntryFrame, text="Create Password
:", font=TextFont2, bg=ColourCodeMain, fg=ColourCodeText).pack(side=TK.LEFT,
padx=fontsize*3)
        password_entry = Entry(PassEntryFrame, show="*", font=TextFont2)
        password_entry.pack(side=TK.RIGHT, padx=fontsize*3)
        RePassEntryFrame = Frame(SignUpWindow, bg=ColourCodeMain)
        RePassEntryFrame.pack(pady=fontsize*4)
        Label(RePassEntryFrame, text="Confirm Password
:", font=TextFont2, bg=ColourCodeMain, fg=ColourCodeText).pack(side=TK.LEFT,
padx=fontsize*3)
        confirm_password_entry = Entry(RePassEntryFrame, show="*", font=TextFont2)
        confirm_password_entry.pack(side=TK.RIGHT, padx=fontsize*3)
        submit_button =
Button(SignUpWindow, text="Submit", font=ButtonFont2Bold, command=SignUp, bg=ColourCod
eButtonBG, fg=ColourCodeButtonFG)
        submit_button.pack(pady=fontsize*2)
        SignUpWindow.attributes('-fullscreen', True)
        SignUpWindow.protocol("WM_DELETE_WINDOW", Tkinter.closing)
def TkinPreferences():
    global Preferences_Window, FontStyle_var, Theme_var
    def Back():
        Preferences_Window.destroy()
        WelcomeWindow.destroy()
        PreferenceWriter()
        TkinWelcome()
    WelcomeWindow.withdraw()
    Preferences_Window=Toplevel(WelcomeWindow)
    Preferences_Window.config(bg=ColourCodeMain)
    Preferences_Window.title("Preferences Window")
    Label(Preferences_Window, text="Preference
Menu", font=TitleTextFont, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*3
)
    Label(Preferences_Window, text="Make sure ']' [' is inside the
screen", font=TextFont3, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*3)

```

```

Label(Preferences_Window, text="]\\t\\t\\t\\t[", font=TitleTextFont, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*3)
back_button =
Button(Preferences_Window, text="Back", command=Back, font=ButtonFont3, bg=ColourCodeButtonBG, fg=ColourCodeButtonFG)
back_button.pack(side=TK.TOP, anchor=TK.NE, padx=fontsize*4)
FontSizeButtons_frame = Frame(Preferences_Window, bg=ColourCodeMain)
FontSizeButtons_frame.pack(pady=fontsize*4)
IncreaseFont_button = Button(FontSizeButtons_frame, text="Increase Font Size (+)", command=IncreaseFontSize, font=ButtonFont2, bg=ColourCodeButtonBG, fg=ColourCodeButtonFG)
IncreaseFont_button.pack(side=TK.LEFT, padx=fontsize*3)
DecreaseFont_button = Button(FontSizeButtons_frame, text="Decrease Font Size (-)", command=DecreaseFontSize, font=ButtonFont2, bg=ColourCodeButtonBG, fg=ColourCodeButtonFG)
DecreaseFont_button.pack(side=TK.RIGHT, padx=fontsize*3)
FontFamilySelection_frame = Frame(Preferences_Window, bg=ColourCodeMain)
FontFamilySelection_frame.pack(pady=fontsize*4)
Label(FontFamilySelection_frame, text="Font family :", font=TextFont2, bg=ColourCodeMain, fg=ColourCodeText).pack(side=TK.LEFT, padx=fontsize*3)
FontStyle_var = TK.StringVar(Preferences_Window)
FontStyle_var.set(fontstyle)
FontStyle_var.trace('w', ChangeFontStyle)
FontStyle_dropdown = OptionMenu(FontFamilySelection_frame, FontStyle_var, *['Arial', 'Courier New', 'Georgia', 'Impact', 'Lucida Console'])
FontStyle_dropdown.config(font=TextFont2, width=fontsize*4, bg=ColourCodeButtonBG, fg=ColourCodeButtonFG)
FontStyle_dropdown['menu'].config(font=TextFont3)
FontStyle_dropdown['menu'].config(activebackground=ColourCodeButtonBG, activeforeground=ColourCodeButtonFG)
FontStyle_dropdown.pack(side=TK.RIGHT, padx=fontsize*3)
ThemeSelection_frame = Frame(Preferences_Window, bg=ColourCodeMain)
ThemeSelection_frame.pack(pady=fontsize*4)
Label(ThemeSelection_frame, text="Theme :", font=TextFont2, bg=ColourCodeMain, fg=ColourCodeText).pack(side=TK.LEFT, padx=fontsize*3)
Theme_var = TK.StringVar(Preferences_Window)
Theme_var.set(theme)
Theme_var.trace('w', ChangeFontStyle)
Themes_dropdown = OptionMenu(ThemeSelection_frame, Theme_var, *['Default', 'Light', 'Dark'])
Themes_dropdown.config(font=TextFont2, width=fontsize*4, bg=ColourCodeButtonBG, fg=ColourCodeButtonFG)
Themes_dropdown['menu'].config(font=TextFont3)
Themes_dropdown['menu'].config(activebackground=ColourCodeButtonBG, activeforeground=ColourCodeButtonFG)
Themes_dropdown.pack(side=TK.RIGHT, padx=fontsize*3)

```

```

        Preferences_Window.attributes('-fullscreen', True)
        Preferences_Window.protocol("WM_DELETE_WINDOW",Tkinter_closing)
def TkinterAdminMenu():
    global Admin_window
    def AdminLogOut():
        global LoggedIn_Flag
        Admin_window.destroy()
        LoggedIn_Flag=False
        LoginWindow.deiconify()
        login_button.config(state=TK.NORMAL)
        LoginWindow.bind('<Return>', Login_on_enter)
    Admin_window = Toplevel(LoginWindow)
    Admin_window.config(bg=ColourCodeMain)
    Admin_window.title("Admin Window")
    Label(Admin_window,text="Admin
Menu",font=TitleTextFont,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*3
)
    Label(Admin_window,text="Logged in as
Admin",font=TextFont1,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*3)
    logout_button =
Button(Admin_window,text="Logout",command=AdminLogOut,font=ButtonFont3,bg=ColourCo
deButtonBG,fg=ColourCodeButtonFG)
    logout_button.pack(padx=fontsize*4,side=TK.TOP,anchor=TK.NE)
    Admin_windowButtons_frame1 = Frame(Admin_window,bg=ColourCodeMain)
    Admin_windowButtons_frame1.pack(pady=fontsize*4)
    ChangeUID_button = Button(Admin_windowButtons_frame1,text="Change User
ID",font=ButtonFont1,command=TkinterChangeUID,bg=ColourCodeButtonBG,fg=ColourCodeButt
onFG)
    ChangeUID_button.pack(side=TK.LEFT, padx=fontsize*3)
    ChangePassword_button = Button(Admin_windowButtons_frame1,text="Change
Password",font=ButtonFont1,command=TkinterChangePass,bg=ColourCodeButtonBG,fg=ColourC
odeButtonFG)
    ChangePassword_button.pack(side=TK.RIGHT, padx=fontsize*3)
    ApproveUser_button = Button(Admin_window,text="Approve or Deny
User",font=ButtonFont1,command=TkinterApproveUser,bg=ColourCodeButtonBG,fg=ColourCode
ButtonFG)
    ApproveUser_button.pack(pady=fontsize*3)
    RemoveUser_button = Button(Admin_window,text="Remove
User",font=ButtonFont1,command=TkinterRemoveUser,bg=ColourCodeButtonBG,fg=ColourCodeB
uttonFG)
    RemoveUser_button.pack(pady=fontsize*3)
    Viewusers_button = Button(Admin_window,text="View
Users",font=ButtonFont1,command=TkinterViewUsers,bg=ColourCodeButtonBG,fg=ColourCodeB
uttonFG)
    Viewusers_button.pack(pady=fontsize*3)
    Admin_window.attributes('-fullscreen', True)
    Admin_window.protocol("WM_DELETE_WINDOW",Tkinter_closing)
def TkinterChangeUID():

```

```

global ChangeUIDWindow, NewUID_entry, CurrentPassword_entry
def Back():
    ChangeUIDWindow.destroy()
    Admin_window.deiconify()
    Admin_window.withdraw()
    ChangeUIDWindow = Toplevel(Admin_window)
    ChangeUIDWindow.config(bg=ColourCodeMain)
    ChangeUIDWindow.title("Change User ID (Admin)")
    Label(ChangeUIDWindow, text="Change User
Id", font=TitleTextFont, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*3)
    Label(ChangeUIDWindow, text="Logged in as
Admin", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*3)
    back_button =
Button(ChangeUIDWindow, text="Back", command=Back, font=ButtonFont3, bg=ColourCodeButt
onBG, fg=ColourCodeButtonFG)
    back_button.pack(side=TK.TOP, anchor=TK.NE, padx=fontsize*4)
    NewUID = Frame(ChangeUIDWindow, bg=ColourCodeMain)
    NewUID.pack(pady=fontsize*4)
    Label(NewUID, text="New User ID
:", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(side=TK.LEFT,
padx=fontsize*3)
    NewUID_entry = Entry(NewUID, font=TextFont3, width=fontsize*4)
    NewUID_entry.pack(side=TK.RIGHT, padx=fontsize*3)
    CurrentPassEntryFrame = Frame(ChangeUIDWindow, bg=ColourCodeMain)
    CurrentPassEntryFrame.pack(pady=fontsize*4)
    Label(CurrentPassEntryFrame, text="Current Password
:", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(side=TK.LEFT,
padx=fontsize*3)
    CurrentPassword_entry =
Entry(CurrentPassEntryFrame, font=TextFont3, show="*", width=fontsize*4)
    CurrentPassword_entry.pack(side=TK.RIGHT, padx=fontsize*3)
    submit_button =
Button(ChangeUIDWindow, text="Submit", font=ButtonFont2, command=ChangeUIDAdmin, bg=Co
lourCodeButtonBG, fg=ColourCodeButtonFG)
    submit_button.pack(pady=fontsize*2)
    ChangeUIDWindow.attributes('-fullscreen', True)
    ChangeUIDWindow.protocol("WM_DELETE_WINDOW", Tkin_closing)
def TkinChangePass():
    global
ChangePassWindow, CurrentPassword_entry, NewPassword_entry, ReNewPassword_entry
def Back():
    ChangePassWindow.destroy()
    Admin_window.deiconify()
    Admin_window.withdraw()
    ChangePassWindow = Toplevel(Admin_window)
    ChangePassWindow.config(bg=ColourCodeMain)
    ChangePassWindow.title("Change Password (Admin)")

```



```

        Label(ChangePassWindow, text="Change
Password", font=TitleTextFont, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsi
ze*3)
        Label(ChangePassWindow, text="Logged in as
Admin", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*3)
        back_button =
Button(ChangePassWindow, text="Back", command=Back, font=ButtonFont3, bg=ColourCodeBut
tonBG, fg=ColourCodeButtonFG)
        back_button.pack(side=TK.TOP, anchor=TK.NE, padx=fontsize*4)
        CurrentPassEntryFrame = Frame(ChangePassWindow, bg=ColourCodeMain)
        CurrentPassEntryFrame.pack(pady=fontsize*4)
        Label(CurrentPassEntryFrame, text="Current Password
:", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(side=TK.LEFT,
padx=fontsize*3)
        CurrentPassword_entry =
Entry(CurrentPassEntryFrame, font=TextFont3, show="*", width=fontsize*4)
        CurrentPassword_entry.pack(side=TK.RIGHT, padx=fontsize*3)
        NewPassEntryFrame = Frame(ChangePassWindow, bg=ColourCodeMain)
        NewPassEntryFrame.pack(pady=fontsize*4)
        Label(NewPassEntryFrame, text="New Password
:", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(side=TK.LEFT,
padx=fontsize*3)
        NewPassword_entry =
Entry(NewPassEntryFrame, font=TextFont3, show="*", width=fontsize*4)
        NewPassword_entry.pack(side=TK.RIGHT, padx=fontsize*3)
        ReNewPassEntryFrame = Frame(ChangePassWindow, bg=ColourCodeMain)
        ReNewPassEntryFrame.pack(pady=fontsize*4)
        Label(ReNewPassEntryFrame, text="Re-enter New Password
:", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(side=TK.LEFT,
padx=fontsize*3)
        ReNewPassword_entry =
Entry(ReNewPassEntryFrame, font=TextFont3, show="*", width=fontsize*4)
        ReNewPassword_entry.pack(side=TK.RIGHT, padx=fontsize*3)
        submit_button =
Button(ChangePassWindow, text="Submit", font=ButtonFont2, command=ChangePassAdmin, bg=
ColourCodeButtonBG, fg=ColourCodeButtonFG)
        submit_button.pack(pady=fontsize*2)
        ChangePassWindow.attributes('-fullscreen', True)
        ChangePassWindow.protocol("WM_DELETE_WINDOW", Tkin_closing)
def TkinApproveUser():
    global ApproveUserWindow, Non_Approved_user_listbox, designation_var
    def Back():
        ApproveUserWindow.destroy()
        Admin_window.deiconify()
    Admin_window.withdraw()
    ApproveUserWindow = Toplevel(Admin_window)
    ApproveUserWindow.config(bg=ColourCodeMain)
    ApproveUserWindow.title("Approve User")

```

```

        Label(ApproveUserWindow, text="Approve
User", font=TitleTextFont, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*3
)
        back_button =
Button(ApproveUserWindow, text="Back", command=Back, font=ButtonFont3, bg=ColourCodeBu
ttonBG, fg=ColourCodeButtonFG)
        back_button.pack(side=TK.TOP, anchor=TK.NE, padx=fontsize*4)
        Non_Approved_user_listbox = Listbox(ApproveUserWindow,
selectmode=TK.SINGLE, font=TextFont2, height=fontsize, width=fontsize*7, bg=ColourCode
Main, fg=ColourCodeText)
        for i in NonApprovedUsers_Dict:
            Non_Approved_user_listbox.insert(TK.END, i)
        Non_Approved_user_listbox.pack(pady=10)
        DesignationEntryFrame = Frame(ApproveUserWindow, bg=ColourCodeMain)
        DesignationEntryFrame.pack(pady=fontsize*4)
        Label(DesignationEntryFrame, text="Designation
:", font=TextFont2, bg=ColourCodeMain, fg=ColourCodeText).pack(side=TK.LEFT,
padx=fontsize*3)
        designations=('Polling officer', 'Polling agent')
        designation_var = TK.StringVar(ApproveUserWindow)
        designation_var.set('Select designation')
        designation_dropdown = OptionMenu(DesignationEntryFrame, designation_var,
*designations)
        designation_dropdown.config(font=TextFont2, width=int(fontsize*3.6))
        designation_dropdown['menu'].config(font=TextFont2)
        designation_dropdown['menu'].config(activebackground=ColourCodeButtonBG,
activeforeground=ColourCodeButtonFG)
        designation_dropdown.pack(pady=fontsize*3)
        Buttons_frame = Frame(ApproveUserWindow, bg=ColourCodeMain)
        Buttons_frame.pack(pady=fontsize*4)
        Approve_button =
Button(Buttons_frame, text="Approve", command=ApproveUser, font=ButtonFont2, bg=Colour
CodeButtonBG, fg=ColourCodeButtonFG)
        Approve_button.pack(side=TK.LEFT, padx=fontsize*3)
        Deny_button =
Button(Buttons_frame, text="Deny", command=DenyUser, font=ButtonFont2, bg=ColourCodeBu
ttonBG, fg=ColourCodeButtonFG)
        Deny_button.pack(side=TK.RIGHT, padx=fontsize*3)
        ApproveUserWindow.attributes('-fullscreen', True)
        ApproveUserWindow.protocol("WM_DELETE_WINDOW", Tkin_closing)
def TkinRemoveUser():
    global RemUserWindow, Rem_UID_entry
    UserDictRefresh()
    def Back():
        RemUserWindow.destroy()
        Admin_window.deiconify()
    Admin_window.withdraw()
    RemUserWindow = Toplevel(Admin_window)

```

```

RemUserWindow.config(bg=ColourCodeMain)
RemUserWindow.title("Add User")
Label(RemUserWindow,text="Remove
User",font=TitleTextFont,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*3
)
back_button =
Button(RemUserWindow,text="Back",command=Back,font=ButtonFont3,bg=ColourCodeButton
BG,fg=ColourCodeButtonFG)
back_button.pack(side=TK.TOP,anchor=TK.NE,padx=fontsize*4)
Label(RemUserWindow,text="Enter User ID to remove
user",font=TextFont3,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*3)
Label(RemUserWindow,text="User
ID",font=TextFont2,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*3)
Rem_UID_entry = Entry(RemUserWindow,font=TextFont2)
Rem_UID_entry.pack(pady=fontsize)
Remove_button =
Button(RemUserWindow,text="Submit",font=ButtonFont2,command=RemoveUser,bg=ColourCo
deButtonBG,fg=ColourCodeButtonFG)
Remove_button.pack(pady=fontsize*2)
RemUserWindow.attributes('-fullscreen', True)
RemUserWindow.protocol("WM_DELETE_WINDOW",Tkin_closing)
def TkinViewUsers():
def Back():
    ViewUsersWindow.destroy()
    Admin_window.deiconify()
    Admin_window.withdraw()
    UserDictRefresh()
    ViewUsersWindow = Toplevel(Admin_window)
    ViewUsersWindow.config(bg=ColourCodeMain)
    ViewUsersWindow.title("View Users")
    Label(ViewUsersWindow,text="Users:",font=TitleTextFont,bg=ColourCodeMain,fg=Co
lourCodeText).pack(pady=fontsize*3)
    back_button =
    Button(ViewUsersWindow,text="Back",command=Back,font=ButtonFont3,bg=ColourCodeButt
onBG,fg=ColourCodeButtonFG)
    back_button.pack(side=TK.TOP,anchor=TK.NE,padx=fontsize*4)
    users_text = TK.Text(ViewUsersWindow,font=TextFont2)
    users_text.pack(pady=fontsize*3)
    for i in users_dict:
        name,user_id,designation = users_dict[i][1],i,users_dict[i][2]
        users_text.insert(TK.END,f"Name: {name}\nUser ID: {user_id}\nDesignation:
{designation}\n\n")
    users_text.config(state=TK.DISABLED)
    ViewUsersWindow.attributes('-fullscreen', True)
    ViewUsersWindow.protocol("WM_DELETE_WINDOW",Tkin_closing)
def TkinPollSelector():
    global
    LoginWindow,login_button,PollSelectorWindow,filename_entry,CreatePoll_button,Conti

```

```

nuePoll_button, ViewResult_button, Logout_button, ImportPoll_button, ExportPoll_button
, ViewPolls_button, DeletePoll_button
def POfficerLogOut():
    global LoggedIn_Flag
    LoggedIn_Flag=False
    PollSelectorWindow.destroy()
    LoginWindow.deiconify()
    login_button.config(state=TK.NORMAL)
    LoginWindow.bind('<Return>', LogIn_on_enter)
    PollSelectorWindow = Toplevel(LoginWindow)
    PollSelectorWindow.config(bg=ColourCodeMain)
    PollSelectorWindow.title("Poll Officer Window")
    Label(PollSelectorWindow, text="Polling officer's
Menu", font=TitleTextFont, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*3
)
    Label(PollSelectorWindow, text="Logged in as
"+users_dict[LogIn_user_ID][1], font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText)
.pack(pady=fontsize*3)
    Logout_button =
Button(PollSelectorWindow, text="Logout", command=POfficerLogOut, font=ButtonFont3, bg
=ColourCodeButtonBG, fg=ColourCodeButtonFG)
    Logout_button.pack(padx=fontsize*4, side=TK.TOP, anchor=TK.NE)
    Label(PollSelectorWindow, text="Enter name of the
poll", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*3)
    filename_entry = Entry(PollSelectorWindow, font=TextFont2)
    filename_entry.pack(pady=fontsize*3)
    PSMenuButtons_frame1 = Frame(PollSelectorWindow, bg=ColourCodeMain)
    PSMenuButtons_frame1.pack(pady=fontsize*4)
    CreatePoll_button = Button(PSMenuButtons_frame1, text="Create
Poll", font=ButtonFont2, command=CreatePoll, bg=ColourCodeButtonBG, fg=ColourCodeButto
nFG)
    CreatePoll_button.pack(side=TK.LEFT, padx=fontsize*3)
    ContinuePoll_button = Button(PSMenuButtons_frame1, text="Continue
Poll", font=ButtonFont2, command=ContinuePoll, bg=ColourCodeButtonBG, fg=ColourCodeBut
tonFG)
    ContinuePoll_button.pack(side=TK.LEFT, padx=fontsize*3)
    ViewResult_button = Button(PSMenuButtons_frame1, text="View
Result", font=ButtonFont2, command=ViewResult, bg=ColourCodeButtonBG, fg=ColourCodeBut
tonFG)
    ViewResult_button.pack(side=TK.RIGHT, padx=fontsize*3)
    PSMenuButtons_frame2 = Frame(PollSelectorWindow, bg=ColourCodeMain)
    PSMenuButtons_frame2.pack(pady=fontsize*4)
    ImportPoll_button = Button(PSMenuButtons_frame2, text="Import
Poll", font=ButtonFont2, command=ImportPoll, bg=ColourCodeButtonBG, fg=ColourCodeButto
nFG)
    ImportPoll_button.pack(side=TK.LEFT, padx=fontsize*3)

```

```

        ExportPoll_button = Button(PSMenuButtons_frame2,text="Export
Poll",font=ButtonFont2,command=ExportPoll,bg=ColourCodeButtonBG,fg=ColourCodeButtonFG)
        ExportPoll_button.pack(side=TK.RIGHT, padx=fontsize*3)
        PSMenuButtons_frame3 = Frame(PollSelectorWindow,bg=ColourCodeMain)
        PSMenuButtons_frame3.pack(pady=fontsize*4)
        ViewPolls_button = Button(PSMenuButtons_frame3,text="View
Polls",font=ButtonFont2,command=TkinViewPolls,bg=ColourCodeButtonBG,fg=ColourCodeButtonFG)
        ViewPolls_button.pack(side=TK.LEFT, padx=fontsize*3)
        DeletePoll_button = Button(PSMenuButtons_frame3,text="Delete
Poll",font=ButtonFont2,command=DeletePoll,bg=ColourCodeButtonBG,fg=ColourCodeButtonFG)
        DeletePoll_button.pack(side=TK.RIGHT, padx=fontsize*3)
        PollSelectorWindow.attributes('-fullscreen', True)
        PollSelectorWindow.protocol("WM_DELETE_WINDOW",Tkin_closing)
def TkinViewPolls():
    def Back():
        ViewPollsWindow.destroy()
        PollSelectorWindow.deiconify()
    ViewPolls()
    PollSelectorWindow.withdraw()
    ViewPollsWindow = Toplevel(PollSelectorWindow)
    ViewPollsWindow.config(bg=ColourCodeMain)
    ViewPollsWindow.title("Polls")
    Label(ViewPollsWindow,text="Polls",font=TitleTextFont,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize)
    Label(ViewPollsWindow,text="Number of Polls :
"+str(len(Polls)),font=TextFont3,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize)
    back_button =
Button(ViewPollsWindow,text="Back",command=Back,font=ButtonFont3,bg=ColourCodeButtonBG,fg=ColourCodeButtonFG)
    back_button.pack(pady=fontsize,side=TK.TOP,anchor=TK.NE)
    result_text = TK.Text(ViewPollsWindow,font=TextFont1,height=fontsize*1.75)
    result_text.pack(pady=fontsize*3.25)
    for i in Polls:
        result_text.insert(TK.END,i+'\n')
    result_text.config(state=TK.DISABLED)
    ViewPollsWindow.attributes('-fullscreen', True)
    ViewPollsWindow.resizable(False, False)
    ViewPollsWindow.protocol("WM_DELETE_WINDOW",Tkin_closing)
def TkinPOMenuRefresh():
    CurrentPollRefresh()
    QueLabel.config(text='Question : '+CurrentQue)
    NoOfOptLabel1.config(text='Number of options added : '+str(NumOfOpts))
    NoOfOptLabel2.config(text='Number of options added : '+str(NumOfOpts))
    OptRem_menu=OptRem_dropdown['menu']

```

```

OptRem_menu.delete(0, 'end')
for i in CurrentOpt_lis:
    OptRem_menu.add_command(label=i,command=TK._setit(OptRem_var, i))
OptRem_var.set('Select option')
VotersFlagLabel1.config(text='Number of Voters added : '+NumOfVoters)
VotersFlagLabel2.config(text='Number of Voters added : '+NumOfVoters)
PollInfo_text.config(state=TK.NORMAL)
PollInfo_text.delete("1.0", TK.END)
for i in PollInfo_textLis:
    PollInfo_text.insert(TK.END,i)
PollInfo_text.config(state=TK.DISABLED)
def TkinPOfficerMenu():
    def back():
        os.chdir(main_dir+'\\Polls')
        POfficer_Window.destroy()
        PollSelectorWindow.deiconify()
        PollSelectorWindow.withdraw()
        CurrentPollRefresh()
    global
    POfficer_Window,POMenuBack_Button,QueLabel,NoOfOptLabel1,NoOfOptLabel2,VotersFlagL
    abel1,VotersFlagLabel2,Question_entry,Option_entry,OptRem_var,OptRem_dropdown,Vote
    r_entry,RemVoter_entry,PollInfo_text,Polling_button
    POfficer_Window=Toplevel(PollSelectorWindow)
    POfficer_Window.config(bg=ColourCodeMain)
    POfficer_Window.title('Poll Menu')
    Label(POfficer_Window,text='Poll
Menu',font=TitleTextFont,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize)
    Label(POfficer_Window,text='Current Poll :
'+current_poll,font=TextFont1,bg=ColourCodeMain,fg=ColourCodeText).pack()
    POMenuBack_Button =
    Button(POfficer_Window,text="Back",font=ButtonFont3,command=back,bg=ColourCodeButt
    onBG,fg=ColourCodeButtonFG)
    POMenuBack_Button.pack(padx=fontsize*4,side=TK.TOP,anchor=TK.NE)
    POfficer_Notebook = ttk.Notebook(POfficer_Window,height=fontsize*85)
    style=ttk.Style()
    style.configure('TNotebook', background=ColourCodeMain)
    style.configure('TNotebook.Tab', background='black',
padding=[fontsize*4,fontsize*4],font=TextFont3)
    style.configure('TFrame', background=ColourCodeMain)
    POfficer_Notebook.pack(expand=True,fill='both')
    QueTab = ttk.Frame(POfficer_Notebook,style='TFrame')
    QueLabel=Label(QueTab,text='Question : **NOT UPDATED
(ERROR)**',font=TextFont1,bg=ColourCodeMain,fg=ColourCodeText)
    QueLabel.pack(pady=fontsize*2)
    Label(QueTab,text="Enter question :
",font=TextFont1,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*2)
    Question_entry = Entry(QueTab,width=fontsize*7,font=TextFont2)
    Question_entry.pack(pady=fontsize)

```

```

UpdateQue_button =
Button(QueTab, text="Update", font=ButtonFont2, command=Question, bg=ColourCodeButtonB
G, fg=ColourCodeButtonFG)
UpdateQue_button.pack(pady=fontsize*2)
AddOptsTab = ttk.Frame(POfficer_Notebook, style='TFrame')
NoOfOptLabel1=Label(AddOptsTab, text="No of options added : **NOT UPDATED
(ERROR)**", font=TextFont3, bg=ColourCodeMain, fg=ColourCodeText)
NoOfOptLabel1.pack(pady=fontsize*2)
Label(AddOptsTab, text="Add
options", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*2)
Label(AddOptsTab, text="Enter option :
", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*2)
Option_entry = Entry(AddOptsTab, width=fontsize*4, font=TextFont2)
Option_entry.pack(pady=fontsize*2)
AddOpt_button =
Button(AddOptsTab, text="Submit", font=ButtonFont2, command=AddOptions, bg=ColourCodeB
uttonBG, fg=ColourCodeButtonFG)
AddOpt_button.pack(pady=fontsize*2)
RemOptTab = ttk.Frame(POfficer_Notebook, style='TFrame')
NoOfOptLabel2=Label(RemOptTab, text="No of options added : **NOT UPDATED
(ERROR)**", font=TextFont3, bg=ColourCodeMain, fg=ColourCodeText)
NoOfOptLabel2.pack(pady=fontsize*2)
Label(RemOptTab, text="Remove
option", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*2)
Label(RemOptTab, text="Select option :
", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*2)
OptRem_var = TK.StringVar(RemOptTab)
OptRem_var.set('Select option')
OptRem_dropdown = OptionMenu(RemOptTab, OptRem_var, *CurrentOpt_lis)
OptRem_dropdown.config(font=TextFont2, width=fontsize*4)
OptRem_dropdown['menu'].config(font=TextFont2)
OptRem_dropdown['menu'].config(activebackground=ColourCodeButtonBG,
activeforeground=ColourCodeButtonFG)
OptRem_dropdown.pack(pady=fontsize*2)
RemoveOpt_button =
Button(RemOptTab, text="Remove", font=ButtonFont2, command=RemoveOption, bg=ColourCode
ButtonBG, fg=ColourCodeButtonFG)
RemoveOpt_button.pack(pady=fontsize*2)
AddVotersTab = ttk.Frame(POfficer_Notebook, style='TFrame')
VotersFlagLabel1=Label(AddVotersTab, text="Voters : **NOT UPDATED
(ERROR)**", font=TextFont3, bg=ColourCodeMain, fg=ColourCodeText)
VotersFlagLabel1.pack(pady=fontsize*2)
Label(AddVotersTab, text="Add
Voters", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*2)
Label(AddVotersTab, text="Enter name of the voter :
", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*2)
Voter_entry = Entry(AddVotersTab, width=fontsize*4, font=TextFont2)
Voter_entry.pack(pady=fontsize*2)

```



```

AddVotersTabButtons_frame = Frame(AddVotersTab,bg=ColourCodeMain)
AddVotersTabButtons_frame.pack(pady=fontsize*4)
ImportVoters_button = Button(AddVotersTabButtons_frame,text="Import
Voters",font=ButtonFont2,command=ImportVoters,bg=ColourCodeButtonBG,fg=ColourCodeB
uttonFG)
ImportVoters_button.pack(side=TK.LEFT,padx=fontsize*27)
AddVoter_button =
Button(AddVotersTabButtons_frame,text="Submit",font=ButtonFont2,command=AddVoters,
bg=ColourCodeButtonBG,fg=ColourCodeButtonFG)
AddVoter_button.pack(side=TK.LEFT,padx=fontsize*27)
ExportVoters_button = Button(AddVotersTabButtons_frame,text="Export
Voters",font=ButtonFont2,command=ExportVoters,bg=ColourCodeButtonBG,fg=ColourCodeB
uttonFG)
ExportVoters_button.pack(side=TK.RIGHT,padx=fontsize*27)
RemVoterTab = ttk.Frame(POfficer_Notebook,style='TFrame')
VotersFlagLabel2=Label(RemVoterTab,text="Voters : **NOT UPDATED
(ERROR)**",font=TextFont3,bg=ColourCodeMain,fg=ColourCodeText)
VotersFlagLabel2.pack(pady=fontsize*2)
Label(RemVoterTab,text="Remove
Voter",font=TextFont1,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*2)
Label(RemVoterTab,text="Voter ID :
",font=TextFont1,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*2)
RemVoter_entry = Entry(RemVoterTab,width=int(fontsize*1.5),font=TextFont2)
RemVoter_entry.pack(pady=fontsize*2)
RemoveVoter_button =
Button(RemVoterTab,text="Remove",font=ButtonFont2,command=RemoveVoter,bg=ColourCod
eButtonBG,fg=ColourCodeButtonFG)
RemoveVoter_button.pack(pady=fontsize*2)
PollInfoTab = ttk.Frame(POfficer_Notebook,style='TFrame')
Label(PollInfoTab,text="Poll
Info",font=TextFont1,bg=ColourCodeMain,fg=ColourCodeText).pack()
PollInfo_text = TK.Text(PollInfoTab,font=TextFont2,height=fontsize*5)
PollInfo_text.pack()
PollInfo_text.insert(TK.END,'**NOT UPDATED (ERROR)**')
PollInfo_text.config(state=TK.DISABLED)

POfficer_Notebook.add(QueTab,text='Question')
POfficer_Notebook.add(AddOptsTab,text='Add Options')
POfficer_Notebook.add(RemOptTab,text='Remove Option')
POfficer_Notebook.add(AddVotersTab,text='Add Voters')
POfficer_Notebook.add(RemVoterTab,text='Remove Voter')
POfficer_Notebook.add(PollInfoTab,text='Poll Info')

Polling_button = Button(POfficer_Window,text="Start or Continue
polling",font=ButtonFont1,command=TkinVoterLogin,bg=ColourCodeButtonBG,fg=ColourCo
deButtonFG)
Polling_button.pack(padx=fontsize*2,pady=fontsize*2)
POfficer_Window.attributes('-fullscreen', True)

```



```

POfficer_Window.protocol("WM_DELETE_WINDOW",Tkin_closing)
TkinPOMenuRefresh()
def TkinViewResult():
    global ResultWindow,resultDict
    try:
        with open(current_poll+'_Result.txt')as f:
            result=f.readlines()
            resultDict={}
            for i in result:
                c=0
                for j in i[::-1]:
                    if j=='-':
                        c+=1
                        break
                c+=1
            try:
                resultDict[i[:-c]]=int(i[1-c:-1])
            except:
                pass
    def Back():
        ResultWindow.destroy()
        os.chdir(main_dir+'\\Polls\\'+current_poll)
        PollSelectorWindow.deiconify()
        PollSelectorWindow.withdraw()
        UserDictRefresh()
        ResultWindow = Toplevel(PollSelectorWindow)
        ResultWindow.config(bg=ColourCodeMain)
        ResultWindow.title("Result - "+current_poll)
        Label(ResultWindow,text="Result - 
"+current_poll,font=TitleTextFont,bg=ColourCodeMain,fg=ColourCodeText).pack()
        back_button = 
        Button(ResultWindow,text="Back",command=Back,font=ButtonFont3,bg=ColourCodeButtonB
G,fg=ColourCodeButtonFG)
        back_button.pack(side=TK.TOP,anchor=TK.NE)
        result_text = TK.Text(ResultWindow,font=TextFont1,height=fontsize*1.75)
        result_text.pack(pady=fontsize*3)
        for i in result:
            result_text.insert(TK.END,i)
            result_text.config(state=TK.DISABLED)
        ViewGraphButton = Button(ResultWindow,text="Show
Graph",font=ButtonFont1,command=TkinResultGraph,bg=ColourCodeButtonBG,fg=ColourCod
eButtonFG)
        ViewGraphButton.pack(pady=fontsize*3)
        ResultWindow.attributes('-fullscreen', True)
        ResultWindow.resizable(False, False)
        ResultWindow.protocol("WM_DELETE_WINDOW",Tkin_closing)
    except FileNotFoundError:
        DisablePollSlectorWindowButtons()

```

```

        messagebox.showerror('Error','Result not saved ('+current_poll+'.')')
        EnablePollSlectorWindowButtons()
def TkinResultGraph():
    def Back():
        GraphWindow.destroy()
        ResultWindow.deiconify()
    fig = Figure(figsize=(fontsize*3, fontsize*1.25), dpi=100)
    ax = fig.add_subplot(111)
    ResultWindow.withdraw()
    GraphWindow=Toplevel(ResultWindow)
    GraphWindow.config(bg=ColourCodeMain)
    GraphWindow.title("Result Graph - "+current_poll)
    Label(GraphWindow,text="Result Graph -
"+current_poll,font=TitleTextFont,bg=ColourCodeMain,fg=ColourCodeText).pack()
    back_button =
Button(GraphWindow,text="Back",command=Back,font=ButtonFont3,bg=ColourCodeButtonBG
,fg=ColourCodeButtonFG)
    back_button.pack(side=TK.TOP,anchor=TK.NE)
    Graphcanvas = FigureCanvasTkAgg(fig, master=GraphWindow)
    Graphcanvas_widget = Graphcanvas.get_tk_widget()
    Graphcanvas_widget.pack(pady=fontsize*3)
    GraphWindow.attributes('-fullscreen', True)
    GraphWindow.resizable(False, False)
    GraphWindow.protocol("WM_DELETE_WINDOW",Tkin_closing)
    ax.clear()
    categories = list(resultDict.keys())
    values = list(resultDict.values())
    ax.bar(categories, values, color=ColourCodeMain)
    ax.set_title("Result Graph - "+current_poll)
    ax.set_xlabel('Options')
    ax.set_ylabel('Number of Votes')
    ax.yaxis.set_major_locator(MaxNLocator(integer=True))
    Graphcanvas.draw()
def TkinVoterLogin():
    global VoterLoginWindow,Voterid_entry
    Q_flag=0_flag=V_flag=False
    if current_designation=='Polling officer':
        Polling_button.config(state=TK.DISABLED)
        POMenuBack_Button.config(state=TK.DISABLED)
    elif current_designation=='Polling agent':
        ContinuePoll_button.config(state=TK.DISABLED)
    try:
        open(current_poll+'_Question.txt').close()
        Q_flag=True
    except FileNotFoundError:
        messagebox.showerror('Error','Qusetion not added ('+current_poll+'.')')
    try:
        open(current_poll+'_Options.txt').close()

```

```

        O_flag=True
    except FileNotFoundError:
        messagebox.showerror('Error','Options not added ('+current_poll+')')
    try:
        open(current_poll+'_VotersDetails.csv').close()
        V_flag=True
    except FileNotFoundError:
        messagebox.showerror('Error','Voters not added ('+current_poll+')')
    if current_designation=='Polling officer':
        Polling_button.config(state=TK.NORMAL)
        POMenuBack_Button.config(state=TK.NORMAL)
    elif current_designation=='Polling agent':
        ContinuePoll_button.config(state=TK.NORMAL)
    if Q_flag==True and O_flag==True and V_flag==True:
        if current_designation=='Polling officer':
            POfficer_Window.withdraw()
            VoterLoginWindow = Toplevel(POfficer_Window)
        elif current_designation=='Polling agent':
            VoterLoginWindow = Toplevel(PAgent_Window)
        VoterLoginWindow.title("Voter Login")
        VoterLoginWindow.config(bg=ColourCodeMain)
        Label(VoterLoginWindow,text="Voter
Login",font=TitleTextFont,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*
3)
        Label(VoterLoginWindow,text="Poll :
"+current_poll,font=TitleTextFont,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=f
ontsize*3)
        Label(VoterLoginWindow,text="Enter your Voter ID :
",font=TextFont1,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*3)
        Voterid_entry = Entry(VoterLoginWindow,width=fontsize*2,font=TextFont2)
        Voterid_entry.pack(pady=fontsize*3)
        Submit_button =
Button(VoterLoginWindow,text="Submit",font=ButtonFont1,command=TkinPolling,bg=Colo
urCodeButtonBG,fg=ColourCodeButtonFG)
        Submit_button.pack(pady=fontsize*3)
        back_button = Button(VoterLoginWindow,text="Stop
polling",command=TkinPostPolling,font=ButtonFont2,bg=ColourCodeButtonBG,fg=ColourC
odeButtonFG)
        back_button.pack(padx=fontsize*2,pady=fontsize*4,side=TK.TOP,anchor=TK.NE)
        VoterLoginWindow.attributes('-fullscreen', True)
        VoterLoginWindow.resizable(False,False)
        VoterLoginWindow.protocol("WM_DELETE_WINDOW",Tkin_closing)
    else:
        if current_designation=='Polling agent':
            PAgent_Window.deiconify()
def TkinPolling():
    global vote_dict,voted_dict,Options_var,PollingWindow
    with open(current_poll+'_Question.txt') as q_f:

```

```

        question=q_f.read()
    with open(current_poll+'_Options.txt') as o_f:
        opt_lis=[]
        for i in o_f.readlines():
            opt_lis.append(i)
        for i in range(len(opt_lis)):
            opt_lis[i]=opt_lis[i][:-1]
    with open(current_poll+'_VotersDetails.csv') as v_f:
        voters_dict={}
        voterid_lis=[]
        r=csv.reader(v_f)
        for i in r:
            voters_dict[i[1]]=i[0]
            voterid_lis.append(i[1])
    if not os.path.exists(current_poll+'_PollData.csv'):
        open(current_poll+'_PollData.csv','x').close()
        with open(current_poll+'_PollData.csv','w',newline='') as PD_f:
            for i in opt_lis:
                w=csv.writer(PD_f)
                w.writerow([i,0])
    if not os.path.exists(current_poll+'_VotedData.csv'):
        open(current_poll+'_VotedData.csv','x').close()
    vote_dict={}
    with open(current_poll+'_PollData.csv') as f:
        r=csv.reader(f)
        for i in r:
            vote_dict[i[0]]=i[1]
    voted_dict={}
    with open(current_poll+'_VotedData.csv') as f:
        r=csv.reader(f)
        for i in r:
            voted_dict[i[0]]=(i[1],i[2])
    id_ver=Voterid_entry.get()
    def PollingCaller():
        Polling(id_ver,voters_dict[id_ver])
    if id_ver in voterid_lis and id_ver not in voted_dict:
        VoterLoginWindow.destroy()
        if current_designation=='Polling officer':
            PollingWindow = Toplevel(POfficer_Window)
        elif current_designation=='Polling agent':
            PollingWindow = Toplevel(PAgent_Window)
        PollingWindow.config(bg=ColourCodeMain)
        PollingWindow.title("Polling")
        Label(PollingWindow,text=voters_dict[id_ver],font=TitleTextFont,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*3)
        Label(PollingWindow,text='Please
vote',font=TitleTextFont,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*3
)

```

```

        Label(PollingWindow, text='Question :
'+question, font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*
3)

        Label(PollingWindow, text="Select option :
", font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*3)
        Options_var = TK.StringVar(PollingWindow)
        Options_var.set('Select option')
        Options_dropdown = OptionMenu(PollingWindow, Options_var, *opt_lis)
        Options_dropdown.config(font=TextFont1, width=int(fontsize*3.6))
        Options_dropdown['menu'].config(font=TextFont2)
        Options_dropdown['menu'].config(activebackground=ColourCodeButtonBG,
activeforeground=ColourCodeButtonFG)
        Options_dropdown.pack(pady=fontsize*3)
        Submit_button =
Button(PollingWindow, text="Submit", font=ButtonFont1, command=PollingCaller, bg=Colou
rCodeButtonBG, fg=ColourCodeButtonFG)
        Submit_button.pack(pady=fontsize*3)
        PollingWindow.attributes('-fullscreen', True)
        PollingWindow.resizable(False, False)
        PollingWindow.protocol("WM_DELETE_WINDOW", Tkin_closing)
    elif id_ver in voterid_lis and id_ver in voted_dict:
        messagebox.showerror('Error', '\n'+voted_dict[id_ver][0]+' ('+id_ver+') has
already voted on '+voted_dict[id_ver][1])
    else:
        messagebox.showerror('Error', 'Invalid voter ID ('+id_ver+').')
def TkinPostPolling():
    global PostPollingWindow
    def back():
        PostPollingWindow.destroy()
        TkinVoterLogin()
    def SaveResultButtonAction():
        if Password_entry2.get() == current_PASS:
            if os.path.exists(current_poll+'_Result.txt'):
                PostPollingWindow.withdraw()
                TkinResultExists()
            else:
                SaveResult()
        else:
            SaveResult_button.config(state=TK.DISABLED)
            PollMenu_button.config(state=TK.DISABLED)
            messagebox.showerror('Log', 'Incorrect password')
            SaveResult_button.config(state=TK.NORMAL)
            PollMenu_button.config(state=TK.NORMAL)
    def PollMenuButtonAction():
        if Password_entry2.get() == current_PASS:
            PostPollingWindow.destroy()
            if current_designation == 'Polling officer':
                POfficer_Window.deiconify()

```

```

        elif current_designation=='Polling agent':
            PAgent_Window.deiconify()
    else:
        SaveResult_button.config(state=TK.DISABLED)
        PollMenu_button.config(state=TK.DISABLED)
        messagebox.showerror('Log', 'Incorrect password')
        SaveResult_button.config(state=TK.NORMAL)
        PollMenu_button.config(state=TK.NORMAL)
    if current_designation=='Polling officer':
        PostPollingWindow = Toplevel(POfficer_Window)
    elif current_designation=='Polling agent':
        PostPollingWindow = Toplevel(PAgent_Window)
    VoterLoginWindow.destroy()
    PostPollingWindow.config(bg=ColourCodeMain)
    PostPollingWindow.title("Result Menu")
    Label(PostPollingWindow, text="Result
Menu", font=TitleTextFont, bg=ColourCodeMain, fg=ColourCodeText).pack(pady=fontsize*3
)
    Label(PostPollingWindow, text="Logged in as
"+users_dict[LogIn_user_ID][1], font=TextFont1, bg=ColourCodeMain, fg=ColourCodeText)
.pack(pady=fontsize*3)
    Back_Button =
Button(PostPollingWindow, text="Back", font=ButtonFont3, command=back, bg=ColourCodeBu
ttonBG, fg=ColourCodeButtonFG)
    Back_Button.pack(padx=fontsize*4, side=TK.TOP, anchor=TK.NE)
    Label(PostPollingWindow, text="Password:", font=TextFont1, bg=ColourCodeMain, fg=C
olourCodeText).pack(pady=fontsize*3)
    Password_entry2 =
Entry(PostPollingWindow, show="*", width=fontsize*4, font=TextFont2)
    Password_entry2.pack(pady=fontsize*3)
    SaveResult_button = Button(PostPollingWindow, text="Save
Result", font=ButtonFont1, command=SaveResultButtonAction, bg=ColourCodeButtonBG, fg=C
olourCodeButtonFG)
    SaveResult_button.pack(pady=fontsize*3)
    PollMenu_button = Button(PostPollingWindow, text="Poll
Menu", font=ButtonFont1, command=PollMenuButtonAction, bg=ColourCodeButtonBG, fg=Colou
rCodeButtonFG)
    PollMenu_button.pack(pady=fontsize*3)
    PostPollingWindow.attributes('-fullscreen', True)
    PostPollingWindow.resizable(False, False)
    PostPollingWindow.protocol("WM_DELETE_WINDOW", Tkin_closing)
def TkinResultExists():
    def Overwrite():
        try:
            os.remove(current_poll+'_Result.txt')
            SaveResult()
            ResultExists_Window.destroy()
        except:

```

```

        messagebox.showerror('Error','Error while overwiting.')
def DontOverwrite():
    ResultExists_Window.destroy()
    PostPollingWindow.deiconify()
    ResultExists_Window = Toplevel(PostPollingWindow)
    ResultExists_Window.config(bg=ColourCodeMain)
    ResultExists_Window.title("Result exists")
    Label(ResultExists_Window,text='Result already saved
('+current_poll+')',font=TitleTextFont,bg=ColourCodeMain,fg=ColourCodeText).pack(p
ady=fontsize*3)
    Label(ResultExists_Window,text="Do you want to
overwrite?",font=TextFont1,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize
*3)
    Overwrite_Button=Button(ResultExists_Window,text="Yes
(Overwrite)",font=ButtonFont1,command=Overwrite,bg=ColourCodeButtonBG,fg=ColourCod
eButtonFG)
    Overwrite_Button.pack(pady=fontsize*3)
    DontOverwrite_Button=Button(ResultExists_Window,text="No
(Back)",font=ButtonFont1,command=DontOverwrite,bg=ColourCodeButtonBG,fg=ColourCode
ButtonFG)
    DontOverwrite_Button.pack(pady=fontsize*3)
    ResultExists_Window.attributes('-fullscreen', True)
    ResultExists_Window.resizable(False,False)
    ResultExists_Window.protocol("WM_DELETE_WINDOW",Tkin_closing)
def TkinPAgent():
    global PAgent_Window,filename_entry,ContinuePoll_button
    def Logout():
        global LoggedIn_Flag
        LoggedIn_Flag=False
        PAgent_Window.destroy()
        login_button.config(state=TK.NORMAL)
        LoginWindow.deiconify()
        LoginWindow.bind('<Return>', LogIn_on_enter)
    PAgent_Window = Toplevel(LoginWindow)
    PAgent_Window.config(bg=ColourCodeMain)
    PAgent_Window.title("Continue Poll")
    Label(PAgent_Window,text="Polling agent's
Menu",font=TitleTextFont,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*3
)
    Label(PAgent_Window,text="Logged in as "+users_dict[LogIn_user_ID][1]+' -
Polling
agent',font=TextFont1,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*3)
    Logout_button =
Button(PAgent_Window,text="Logout",command=Logout,font=ButtonFont3,bg=ColourCodeBu
ttonBG,fg=ColourCodeButtonFG)
    Logout_button.pack(pady=fontsize*3,padx=fontsize*2,side=TK.TOP,anchor=TK.NE)
    Label(PAgent_Window,text="Enter name of the
poll",font=TextFont1,bg=ColourCodeMain,fg=ColourCodeText).pack(pady=fontsize*3)

```

```

filename_entry = Entry(PAgent_Window,font=TextFont1)
filename_entry.pack(pady=fontsize*3)
ContinuePoll_button = Button(PAgent_Window,text="Continue
Poll",font=ButtonFont1,command=ContinuePoll,bg=ColourCodeButtonBG,fg=ColourCodeBut
tonFG)
ContinuePoll_button.pack(pady=fontsize*3)
PAgent_Window.attributes('-fullscreen',True)
PAgent_Window.resizable(False,False)
PAgent_Window.protocol("WM_DELETE_WINDOW",Tkin_closing)
MAIN()

```



## Output

# Welcome to the Voting Poll!

Login

Sign up

Preferences

Exit

-Yuhanth  
XII - JEE

## Preference Menu

Make sure ']' '[' is inside the screen

]

[

Back

Increase Font Size (+)

Decrease Font Size (-)

Font family :

Arial

Theme :

Default



# Welcome to the Voting Poll!

Sign up to continue

Back

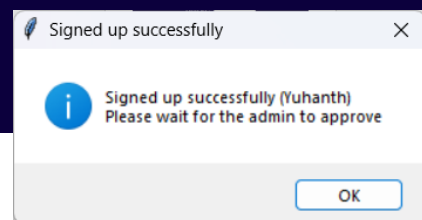
Name : Yuhanth

User ID : y

Create Password : \*

Confirm Password : \*

Submit



# Welcome to the Voting Poll!

Login to continue

Back

User ID :

Password :

Login

# Admin Menu

Logged in as Admin

Logout

Change User ID

Change Password

Approve or Deny User

Remove User

View Users

# Change User Id

Logged in as Admin

Back

New User ID :

Current Password :

Submit

# Change Password

Logged in as Admin

Back

Current Password :

New Password :

Re-enter New Password :

Submit



# Approve or Deny Users

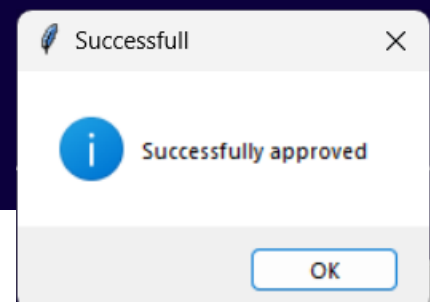
Back

Designation :

Polling officer

Polling agent

Approve Deny



# Remove User

[Back](#)

Enter User ID to remove user

User ID

[Submit](#)

## Users:

[Back](#)

Name: Yuhanth  
User ID: y  
Designation: Polling officer

Name: Yuhanth  
User ID: yuh  
Designation: Polling agent

# Polling officer's Menu

Logged in as Yuhanth

Logout

Enter name of the poll

Test Poll

Create Poll

Continue Poll

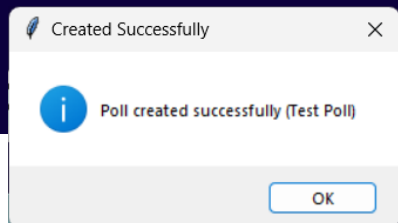
View Result

Import Poll

Export Poll

View Polls

Delete Poll



## Poll Menu

Current Poll : Test Poll

Back

Question

Add Options

Remove Option

Add Voters

Remove Voter

Poll Info

Question : \*\*NOT ADDED\*\*

Enter question :

Test Question

Update

Start or Continue polling

# Poll Menu

Current Poll : Test Poll

Back

Question

Add Options

Remove Option

Add Voters

Remove Voter

Poll Info

Number of options added : 1

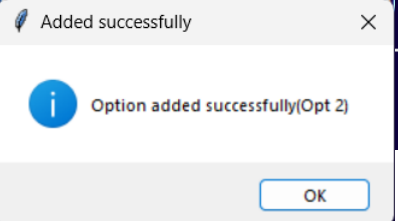
Add options

Enter option :

Opt 2

Submit

Start or Continue polling



# Poll Menu

Current Poll : Test Poll

Back

Question

Add Options

Remove Option

Add Voters

Remove Voter

Poll Info

Number of options added : 2

Remove option

Select option :

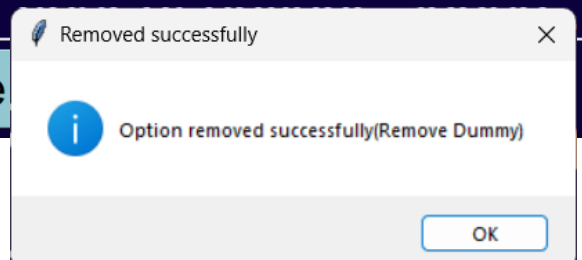
Select option

Opt 1

Opt 2

Remove

Start or Continue



# Poll Menu

Current Poll : Test Poll

Back

Question

Add Options

Remove Option

Add Voters

Remove Voter

Poll Info

Number of Voters added : 1

## Add Voters

Enter name of the voter :

Voter 2

Import Voters

Submit

Export Voters

Added successfully



Voter added successfully  
Voter 2 your voter ID is : 843498  
PLEASE REMEMBER

OK

Start or Continue

Warning



Importing voters will replace existing voters!

OK

# Poll Menu

Current Poll : Test Poll

Back

Question

Add Options

Remove Option

Add Voters

Remove Voter

Poll Info

Number of Voters added : 2

## Remove Voter

Voter ID :

Remove

Start or Continue polling



# Poll Menu

Current Poll : Test Poll

Back

Question

Add Options

Remove Option

Add Voters

Remove Voter

Poll Info

## Poll Info

Poll created by Yuhanth

Poll created on 02 November 2024 at 13:23:03

Question : Test Question

Number of Options : 2

Options :

Start or Continue polling

# Voter Login

## Poll : Test Poll

Enter your Voter ID :

Submit

Stop polling

# Voter 2

## Please vote

Question : Test Question

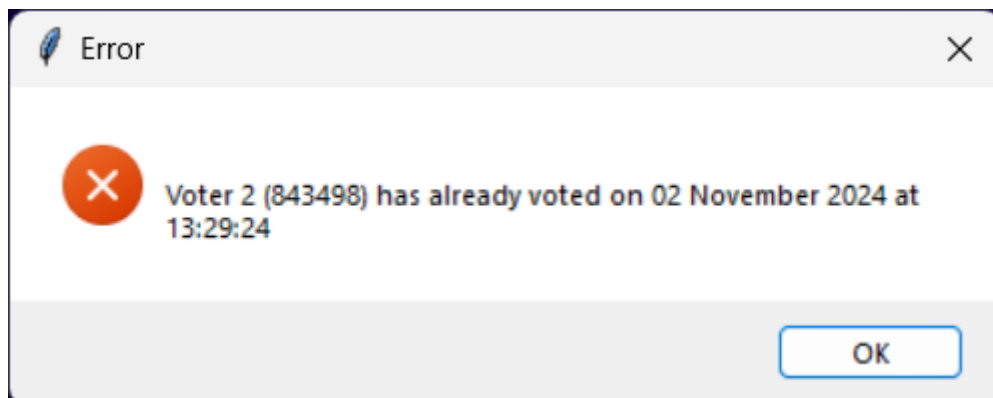
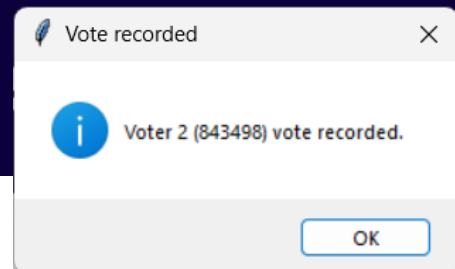
Select option :

Select option

Opt 1

Opt 2

Submit



# Result Menu

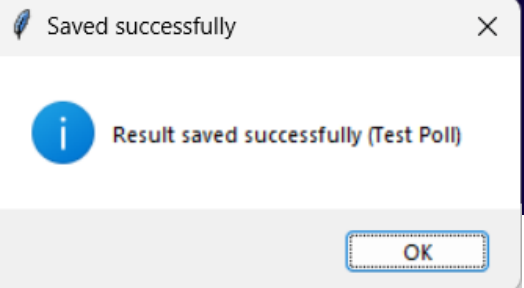
Logged in as Yuhanth

Back

Password:

Save Result

Poll Menu

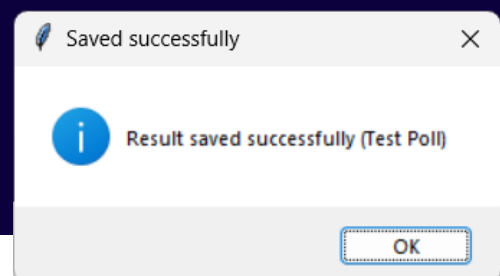


## Result already saved (Test Poll)

Do you want to overwrite?

Yes (Overwrite)

No (Back)



# Result - Test Poll

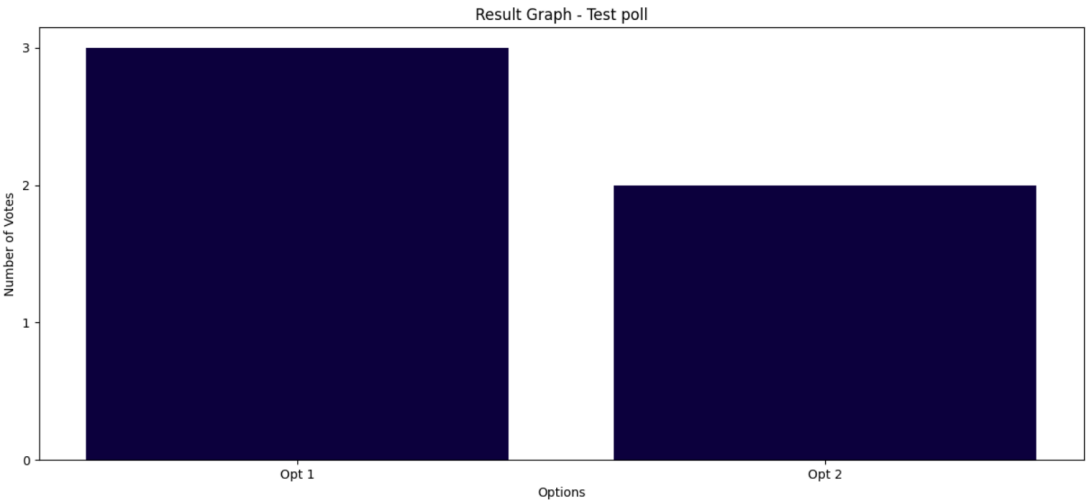
Back

Opt 1-3  
Opt 2-2

Show Graph

# Result Graph - Test poll

Back



# Polling agent's Menu

Logged in as Yuhanth - Polling agent

Logout

Enter name of the poll

Continue Poll

## **Bibliography**

- [docs.python.org/3/library/tkinter.html](https://docs.python.org/3/library/tkinter.html)
- [pypi.org/project/cryptography/](https://pypi.org/project/cryptography/)
- [matplotlib.org](https://matplotlib.org)
- [docs.python.org/3/library/datetime.html](https://docs.python.org/3/library/datetime.html)
- [www.geeksforgeeks.org](https://www.geeksforgeeks.org)