from tkinter import \*

from datetime import date

from tkinter import filedialog

from tkinter import messagebox

from PIL import Image, ImageTk

import os

from tkinter.ttk import Combobox

import pathlib

import openpyxl

from openpyxl import Workbook

# Create a new workbook instance

workbook = Workbook()

background = "#06283D"

framebg = "#EDEDED"

framefg = "#06283D"

root = Tk()

root.title("Student Registration System")

root.geometry("1250x700+210+100")

root.config(bg=background)

file = pathlib.Path('Student\_data.xlsx')

if file.exists():

pass

else:

file = Workbook()

sheet = file.active

sheet['A1'] = "Registration No."

sheet['B1'] = "Name"

sheet['C1'] = "Class"

sheet['D1'] = "Gender"

sheet['E1'] = "DOB"

sheet['F1'] = "Date of Registration"

sheet['G1'] = "Religion"

sheet['H1'] = "Skill"

sheet['I1'] = "Father Name"

sheet['J1'] = "Mother Name"

sheet['K1'] = "Father's Occupation"

sheet['L1'] = "Mother's Occupation"

file.save('Student\_data.xlsx')

def Exit():

root.destroy()

def showImage():

filename = filedialog.askopenfilename(initialdir=os.getcwd(), title="Select image file",

filetype=(("JPG File", "\*.jpg"), ("PNG File", "\*.png"), ("All files", "\*.txt")))

img = Image.open(filename)

resized\_image = img.resize((220, 200))

photo2 = ImageTk.PhotoImage(resized\_image)

lbl.config(image=photo2)

lbl.image = photo2

# Registration form

def registration\_no():

file = openpyxl.load\_workbook("Student\_data.xlsx")

sheet = file.active

row = sheet.max\_row

max\_row\_value = sheet.cell(row=row, column=1).value

try:

Registration.set(max\_row\_value + 1)

except:

Registration.set("1")

# Clear

def Clear():

Name.set('')

DOB.set('')

Religion.set('')

Skill.set('')

F\_Name.set('')

M\_Name.set('')

Father\_Occupation.set('')

Mother\_Occupation.set('')

Class.set('')

registration\_no()

saveButton.config(state="normal")

img1 = PhotoImage(file=r"C:\Users\user\Desktop\Python Project\Images\pic4.png")

lbl.config(image=img1)

lbl.image = img1

# Save

def Save():

R1 = Registration.get()

N1 = Name.get()

C1 = Class.get()

G1 = radio.get()

D2 = DOB.get()

D1 = Date.get()

Re1 = Religion.get()

S1 = Skill.get()

fathername = F\_Name.get()

mothername = M\_Name.get()

F1 = Father\_Occupation.get()

M1 = Mother\_Occupation.get()

if N1 == "" or C1 == "Select Class" or D2 == "" or Re1 == "" or S1 == "" or fathername == "" or mothername == "" or F1 == "" or M1 == "":

messagebox.showerror("error", "Few Data is missing")

else:

file = openpyxl.load\_workbook("Student\_data.xlsx")

sheet = file.active

sheet.cell(column=1, row=sheet.max\_row + 1, value=R1)

sheet.cell(column=2, row=sheet.max\_row, value=N1)

sheet.cell(column=3, row=sheet.max\_row, value=C1)

sheet.cell(column=4, row=sheet.max\_row, value=G1)

sheet.cell(column=5, row=sheet.max\_row, value=D2)

sheet.cell(column=6, row=sheet.max\_row, value=D1)

sheet.cell(column=7, row=sheet.max\_row, value=Re1)

sheet.cell(column=8, row=sheet.max\_row, value=S1)

sheet.cell(column=9, row=sheet.max\_row, value=fathername)

sheet.cell(column=10, row=sheet.max\_row, value=mothername)

sheet.cell(column=11, row=sheet.max\_row, value=F1)

sheet.cell(column=12, row=sheet.max\_row, value=M1)

file.save(r'Student\_data.xlsx')

'''try:

img.save("StudentImages/" + str(R1) + ".png")

except:

#messagebox.showinfo("info", "Profile Picture is not available!!!")

'''

messagebox.showinfo("info", "Successful data entered!!")

Clear()

registration\_no()

def search():

text = Search.get()

Clear()

saveButton.config(state='disable')

file = openpyxl.load\_workbook("Student\_data.xlsx")

sheet = file.active

for row in sheet.rows:

if row[0].value == int(text):

name = row[0]

reg\_no\_position = str(name)[14:-1]

reg\_number = str(name)[15:-1]

try:

print(str(name))

except:

messagebox.showerror("Invalid", "Invalid registration number")

x1 = sheet.cell(row=int(reg\_number), column=1).value

x2 = sheet.cell(row=int(reg\_number), column=2).value

x3 = sheet.cell(row=int(reg\_number), column=3).value

x4 = sheet.cell(row=int(reg\_number), column=4).value

x5 = sheet.cell(row=int(reg\_number), column=5).value

x6 = sheet.cell(row=int(reg\_number), column=6).value

x7 = sheet.cell(row=int(reg\_number), column=7).value

x8 = sheet.cell(row=int(reg\_number), column=8).value

x9 = sheet.cell(row=int(reg\_number), column=9).value

x10 = sheet.cell(row=int(reg\_number), column=10).value

x11 = sheet.cell(row=int(reg\_number), column=11).value

x12 = sheet.cell(row=int(reg\_number), column=12).value

Registration.set(x1)

Name.set(x2)

Class.set(x3)

if x4 == 'Female':

R2.select()

else:

R1.select()

DOB.set(x5)

Date.set(x6)

Religion.set(x7)

Skill.set(x8)

F\_Name.set(x9)

M\_Name.set(x10)

Father\_Occupation.set(x11)

Mother\_Occupation.set(x12)

img = (Image.open("StudentImages/" + str(x1) + ".png"))

resized\_image = img.resize((220, 200))

photo2 = ImageTk.PhotoImage(resized\_image)

lbl.config(image=photo2)

lbl.image = photo2

# Update

def Update():

R1 = Registration.get()

N1 = Name.get()

C1 = Class.get()

selection()

G1 = radio.get()

D2 = DOB.get()

D1 = Date.get()

Re1 = Religion.get()

S1 = Skill.get()

fathername = F\_Name.get()

mothername = M\_Name.get()

F1 = Father\_Occupation.get()

M1 = Mother\_Occupation.get()

file = openpyxl.load\_workbook("Student\_data.xlsx")

sheet = file.active

for row in sheet.rows:

if row[0].value == R1:

name = row[0]

reg\_no\_position = str(name)[14:-1]

reg\_number = str(name)[15:-1]

sheet.cell(column=2, row=int(reg\_number), value=N1)

sheet.cell(column=3, row=int(reg\_number), value=C1)

sheet.cell(column=4, row=int(reg\_number), value=G1)

sheet.cell(column=5, row=int(reg\_number), value=D2)

sheet.cell(column=6, row=int(reg\_number), value=D1)

sheet.cell(column=7, row=int(reg\_number), value=Re1)

sheet.cell(column=8, row=int(reg\_number), value=S1)

sheet.cell(column=9, row=int(reg\_number), value=fathername)

sheet.cell(column=10, row=int(reg\_number), value=mothername)

sheet.cell(column=11, row=int(reg\_number), value=F1)

sheet.cell(column=12, row=int(reg\_number), value=M1)

file.save(r'Student\_data.xlsx')

try:

img.save("StudentImages/" + str(R1) + ".png")

except:

pass

messagebox.showinfo("Update", "Updated Successfully!!")

Clear()

def selection():

value = radio.get()

if value == 1:

gender = "Male"

else:

gender = "Female"

Label(root, text="Email:sanyashresta@gmail.com", width=10, height=3, bg="#f0687c", anchor='e').pack(side=TOP, fill=X)

Label(root, text="STUDENT REGISTRATION", width=10, height=2, bg="#c36464", fg='#fff', font='arial 20 bold').pack(side=TOP, fill=X)

Search = StringVar()

Entry(root, textvariable=Search, width=15, bd=2, font="arial 20").place(x=820, y=70)

imageicon3 = PhotoImage(file=r"C:\Users\user\Desktop\Python Project\Images\search.png")

Srch = Button(root,text="Search", compound=LEFT, image=imageicon3, width=140,height=70, bg='#AEC6CF', font="arial 13 bold", command=search)

Srch.place(x=1070, y=45)

img = Image.open(r"C:\Users\user\Desktop\Python Project\Images\logo6.png")

resized\_img = img.resize((100, 100))

photo = ImageTk.PhotoImage(resized\_img)

# Create a label with the image

label = Label(root, image=photo)

label.place(x=10, y=10)

imageicon5 = PhotoImage(file=r"C:\Users\user\Desktop\Python Project\Images\update.png")

Update\_button = Button(root,text="Update", compound=BOTTOM, image=imageicon5,font="arial 13 bold",command=Update)

Update\_button.place(x=160,y=20)

Label(root, text="Registration No:", font="arial 13", fg=framebg, bg=background).place(x=30, y=150)

Label(root, text="Date :", font="arial 13", fg=framebg, bg=background).place(x=500, y=150)

Registration = IntVar()

Date = StringVar()

reg\_entry = Entry(root, textvariable=Registration, width=15, font="arial 10")

reg\_entry.place(x=160, y=150)

registration\_no()

today = date.today()

d1 = today.strftime("%d/%m/%Y")

date\_entry = Entry(root, textvariable=Date, width=15, font="arial 10")

date\_entry.place(x=550, y=150)

Date.set(d1)

obj = LabelFrame(root, text="Student's Details", font=20, bd=2, width=900, bg=framebg, fg=framefg, height=250, relief=GROOVE)

obj.place(x=30, y=200)

Label(root, text="Full Name:", font="arial 13", bg=framebg, fg=framefg).place(x=30, y=265)

Label(root, text="Date of Birth:", font="arial 13", bg=framebg, fg=framefg).place(x=30, y=315)

Label(root, text="Gender:", font="arial 13", bg=framebg, fg=framefg).place(x=30, y=370)

Label(root, text="Class:", font="arial 13", bg=framebg, fg=framefg).place(x=500, y=265)

Label(root, text="Religion:", font="arial 13", bg=framebg, fg=framefg).place(x=500, y=315)

Label(root, text="Skills:", font="arial 13", bg=framebg, fg=framefg).place(x=500, y=370)

Name = StringVar()

name\_entry = Entry(obj, textvariable=Name, width=20, font="arial 10")

name\_entry.place(x=160, y=50)

DOB = StringVar()

dob\_entry = Entry(obj, textvariable=DOB, width=20, font="arial 10")

dob\_entry.place(x=160, y=100)

radio = IntVar()

R1 = Radiobutton(obj, text="Male", variable=radio, value=1, bg=framebg, fg=framefg, command=selection)

R1.place(x=150, y=150)

R2 = Radiobutton(obj, text="Female", variable=radio, value=2, bg=framebg, fg=framefg, command=selection)

R2.place(x=200, y=150)

Religion = StringVar()

religion\_entry = Entry(obj, textvariable=Religion, width=20, font="arial 10")

religion\_entry.place(x=630, y=100)

Skill = StringVar()

skill\_entry = Entry(obj, textvariable=Skill, width=20, font="arial 10")

skill\_entry.place(x=630, y=150)

Class = Combobox(obj, values=['1', '2', '3', '4', '5', '6', '7', '8', '9', '10', '11', '12'], font="Roboto 10", width=17, state="r")

Class.place(x=630, y=50)

Class.set("Select Class")

obj2 = LabelFrame(root, text="Parent's Details", font=20, bd=2, width=900, bg=framebg, fg=framefg, height=220, relief=GROOVE)

obj2.place(x=30, y=470)

Label(obj2, text="Father's Name:", font="arial 13", bg=framebg, fg=framefg).place(x=30, y=50)

Label(obj2, text="Occupation:", font="arial 13", bg=framebg, fg=framefg).place(x=30, y=100)

F\_Name = StringVar()

f\_entry = Entry(obj2, textvariable=F\_Name, width=20, font="arial 10")

f\_entry.place(x=160, y=60)

Father\_Occupation = StringVar()

FO\_entry = Entry(obj2, textvariable=Father\_Occupation, width=20, font="arial 10")

FO\_entry.place(x=160, y=100)

Label(obj2, text="Mother's Name:", font="arial 13", bg=framebg, fg=framefg).place(x=500, y=50)

Label(obj2, text="Occupation:", font="arial 13", bg=framebg, fg=framefg).place(x=500, y=100)

M\_Name = StringVar()

M\_entry = Entry(obj2, textvariable=M\_Name, width=20, font="arial 10")

M\_entry.place(x=630, y=50)

Mother\_Occupation = StringVar()

MO\_entry = Entry(obj2, textvariable=Mother\_Occupation, width=20, font="arial 10")

MO\_entry.place(x=630, y=100)

f = Frame(root, bd=3, bg="black", width=200, height=200, relief=GROOVE)

f.place(x=1000, y=130)

img = PhotoImage(file=r"C:\Users\user\Desktop\Python Project\Images\pic4.png")

lbl = Label(root, bg="black", image=img)

lbl.place(x=980, y=130)

Button(root, text="Upload", width=19, height=2, font="arial 12 bold", bg="lightblue", command=showImage).place(x=1000, y=370)

saveButton = Button(root, text="Save", width=19, height=2, font="arial 12 bold", bg="lightgreen", command=Save)

saveButton.place(x=1000, y=450)

Button(root, text="Reset", width=19, height=2, font="arial 12 bold", bg="lightpink", command=Clear).place(x=1000, y=530)

Button(root, text="Exit", width=19, height=2, font="arial 12 bold", bg="grey", command=Exit).place(x=1000, y=610)

root.mainloop()