

Apply regular expression for form validation. Create your domain-form using Tkinter Module.

→ Form should contain Text box [For Name, Email Id, Phone number], Dropdown [for Gender], Spinbox [for Year/DoB] and other necessary widgets required for your domain. → Validate Your Name, Email Id, Phone number in the form.

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In [ ]: from tkinter import *
        from tkinter import messagebox
        import re

ws = Tk()
ws.title('Zoo Management Login')
ws.geometry('700x300')
ws.config(bg='#04B2D9')

def zoo_info():
    msg = """At the present, total number of animals: 200.
            Adopted animals: 180"""
    messagebox.showinfo('message', msg)
    return

def checkEmailValidation(email):
    if re.match(r"^[^@]+@[^@]+\.[^@]+", email):
        return True
    return False

def validation():
    name = name_tf.get()
    email = email_tf.get()
    mob = mobile_tf.get()

    msg = ''
    valid = 0

    if (len(name) == 0 or len(mob) == 0 or len(email) == 0):
        msg = 'Values can\'t be empty'
    else:
```

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try:
    if any(ch.isdigit() for ch in name):
        msg = 'Name can\'t have numbers'
        messagebox.showinfo('message', msg)
        return
    elif len(name) <= 2:
        msg = 'name is too short.'
        messagebox.showinfo('message', msg)
        return
    elif len(name) > 20:
        msg = 'name is too long.'
        messagebox.showinfo('message', msg)
        return
    else:
        if any(ch.isalpha() for ch in mob):
            msg = 'Mobile can\'t have alphabets'
            messagebox.showinfo('message', msg)
            return

        elif len(mob) != 10:
            msg = "Mobile can not be less than 10 digits"
            messagebox.showinfo('message', msg)
            return
        else:
            if(checkEmailValidation(email)):
                msg = "Valid mobile and name and email!"
                messagebox.showinfo('message', msg)
                zoo_info()
                return
            else:
                msg = "invalid email"
                messagebox.showinfo('message', msg)

except Exception as ep:
    messagebox.showerror('error', ep)

messagebox.showinfo('message', msg)

frame = Frame(
    ws,
    padx=20,

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        pady=30
    )
    frame.pack(pady=20)

    Label(frame,text='Name',font = ('sans-serif', 14)).grid(row=0, column=0)
    name_tf = Entry(frame,font = ('sans-serif', 14))
    name_tf.grid(row=0, column=1)

    Label(frame, text='Email',font=('sans-serif', 14)).grid(row=1, column=0)
    email_tf = Entry(frame,font = ('sans-serif', 14))
    email_tf.grid(row=1, column=1)

    Label(frame,text='Mobile',font = ('sans-serif', 14)).grid(row=2, column=0)
    mobile_tf = Entry(frame,font = ('sans-serif', 14))
    mobile_tf.grid(row=2, column=1)

    # Dropdown [for Gender]
    Label(frame,text='Gender',font = ('sans-serif', 14)).grid(row=3, column=0)
    variable = StringVar(frame)
    variable.set(" ")
    gender_tf = OptionMenu(frame , variable, "Male","Female", "Other")
    gender_tf.grid(row=3, column=1)

    # Spinbox [for Year/DoB]
    Label(frame,text='DOB',font = ('sans-serif', 14)).grid(row=4, column=0)
    day_tf = Spinbox(frame , from_=1, to=31)
    day_tf.grid(row=4, column=1)
    month_tf = Spinbox(frame , from_=1, to=12)
    month_tf.grid(row=4, column=2)
    year_tf = Spinbox(frame , from_=1998, to=2023)
    year_tf.grid(row=4, column=3)

    Button(frame,text='Submit',pady=10,padx=20,font = ('sans-serif', 14),command=validation
    ).grid(row=10, columnspan=2)

    # other necessary widgets required zoo domain.

    ws.mainloop()

```

Create a form using Tkinter on your Domain details. (Domain name, Student name and other details, with text boxes, radio buttons, menu and the required widgets you can use)

```
In [ ]: #Zoo
from tkinter import *
root = Tk()
root.geometry('500x500')

label_frame = LabelFrame(root, text='Zoo Management')
label_frame.pack(expand='yes', fill='both')

label1 = Label(label_frame, text='UserID: Pearl').place(x=0, y=1)
chkbtn1 = Checkbutton(label_frame, text='Agree')
chkbtn1.place(x=200, y=5)

T = Text(root, height = 5, width = 52)
l = Label(root, text = "Welcome to the Zoo Mangagement portal")
l.config(font = ("Courier", 14))

Welcome = """At the present, total number of animals: 200.
            Adopted animals: 180"""
l.place(x = 20, y = 60)
T.place(x = 20, y = 100)
T.insert(tk.END, Welcome)

animal_ID = Label(label_frame, text = "Animal_ID").place(x = 40, y = 200)
animal_ID_input = Entry(label_frame, width = 30).place(x = 110, y = 200)
animal_name = Label(label_frame, text = "animal_name").place(x = 40, y = 240)
animal_name_input = Entry(label_frame, width = 30).place(x = 110, y = 240)
submit_button = Button(label_frame, text = "Add animals").place(x = 40, y = 280)

view_animal = Label(root, text='View Animals here')
view_animal.pack(side = TOP, ipady = 5)
values = {
    "Lion"      : "1",
    "Tiger"     : "2",
    "Panda"     : "3",
    "Fox"       : "4",
    "Zebra"     : "5"}
```

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for (text, value) in values.items():
    Radiobutton(root, text = text, variable = v,
                value = value).pack(side = LEFT, ipady = 5)

b2 = Button(root, text = "Exit", command = root.destroy)
b2.pack(side = BOTTOM, ipady = 5)
# b2.place(x = 20, y = 330)
mainloop()
```