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# Q1. 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.
import tkinter as tk
from tkinter import ttk
import re

def validate_name(name):
    pattern = r'^[a-zA-Z\s]+$'
    return re.match(pattern, name)

def validate_email(email):
    pattern = r'^\S+@\S+\.\S+$'
    return re.match(pattern, email)

def validate_phone(phone):
    pattern = r'^\d{10}$'
    return re.match(pattern, phone)

def submit_form():
    customer_name = customer_name_entry.get()
    email = email_entry.get()
    phone = phone_entry.get()
    gender = gender_var.get()
    year_of_birth = year_spinbox.get()
    App_name = App_name_entry.get()
    description = description_text.get("1.0", tk.END)

    if not validate_name(customer_name):
        result_label.config(text="Invalid Customer Name", foreground="red")
        return

    if not validate_email(email):
        result_label.config(text="Invalid Email", foreground="red")
        return

    if not validate_phone(phone):
        result_label.config(text="Invalid Phone Number", foreground="red")
        return

    result_label.config(text="Form Submitted Successfully", foreground="green")

root = tk.Tk()
root.title("GooglePlayStoreApps")

frame = tk.Frame(root, padx=50, pady=50)
frame.pack()

customer_name_label = ttk.Label(frame, text="Customer Name:")
customer_name_label.pack()
customer_name_entry = ttk.Entry(frame)
customer_name_entry.pack()

email_label = ttk.Label(frame, text="Email Id:")
email_label.pack()
email_entry = ttk.Entry(frame)
email_entry.pack()

phone_label = ttk.Label(frame, text="Phone Number:")
phone_label.pack()
phone_entry = ttk.Entry(frame)
phone_entry.pack()

gender_label = ttk.Label(frame, text="Gender:")
gender_label.pack()
gender_var = tk.StringVar()
gender_combobox = ttk.Combobox(frame, textvariable=gender_var, values=["Male", "Female", "Other"])
gender_combobox.pack()

year_label = ttk.Label(frame, text="Year/DoB:")
year_label.pack()
year_spinbox = ttk.Spinbox(frame, from_=1900, to=2023, increment=1)
year_spinbox.pack()

App_name_label = ttk.Label(frame, text="App Name:")
App_name_label.pack()
App_name_entry = ttk.Entry(frame)
App_name_entry.pack()

description_label = ttk.Label(frame, text="Description:")
description_label.pack()
description_text = tk.Text(frame, height=5, width=30)

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description_text.pack()

submit_button = ttk.Button(frame, text="Submit", command=submit_form)
submit_button.pack()

result_label = ttk.Label(frame, text="", foreground="green")
result_label.pack()

root.mainloop()
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GooglePalyStoreApps

Customer Name:

Aar

Email Id:

aar@gmail.com

Phone Number:

9009009112

Gender:

Male

Year/DoB:

2000

App Name:

GooglePlay

Description:

Nothing!!!!!!

Submit

Form Submitted Successfully