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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.

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In [ ]: import tkinter as tk
        from tkinter import messagebox
        from tkinter import Spinbox
        import re
        def validate event name():
            event_name = event_name_entry.get()
            if not re.match(r'^[a-zA-Z0-9\s]+$', event_name):
                messagebox.showerror("Error", "Event Name should only contain letters, n
                event_name_entry.delete(0, tk.END)
            return True
        # Function to validate the event date
        def validate event date():
            try:
                day = int(day_spinbox.get())
                month = int(month spinbox.get())
                year = int(year_spinbox.get())
                # Check if the date is valid
                if not (1 <= day <= 31 and 1 <= month <= 12 and 2000 <= year <= 2030):</pre>
                    messagebox.showerror("Invalid Date", "Please enter a valid date.")
                    return False
                else:
                    return True
            except ValueError:
                messagebox.showerror("Invalid Input", "Please enter numeric values for t
                return False
        def validate location():
            location = location_entry.get()
            if not re.match(r'^[a-zA-Z0-9\s]+$', location):
                messagebox.showerror("Error", "Location should only contain letters, num
                location entry.delete(0, tk.END)
            return True
        def submit_event():
            event_name = event_name_entry.get()
            event_date = f"{int(year_spinbox.get()):04d}-{int(month_spinbox.get()):02d}-
            location = location entry.get()
            description = description_entry.get("1.0", tk.END)
            event_title = event_title_var.get()
            # Validate event name, event date, and location
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is_valid_event_name = validate_event_name()
    is_valid_event_date = validate_event_date()
    is_valid_location = validate_location()
    # Check if all fields are valid
    if is_valid_event_name and is_valid_event_date and is_valid_location:
        # Display a message box with the entered event details
        message = f"Event Name: {event_name}\nEvent Date: {event_date}\nLocation
        messagebox.showinfo("Event Details", message)
        # Clear the form fields after submission
        event_name_entry.delete(0, tk.END)
        day_spinbox.delete(0, tk.END)
        month_spinbox.delete(0, tk.END)
        year_spinbox.delete(0, tk.END)
        location entry.delete(0, tk.END)
        description entry.delete("1.0", tk.END)
        event_title_var.set(None)
# Create the main window
root = tk.Tk()
root.title("Event Management")
# Create and pack widgets
event name label = tk.Label(root, text="Event Name:")
event_name_label.pack()
event_name_entry = tk.Entry(root)
event name entry.pack()
# Function to handle date selection
def update date():
   event_date = f"{year_spinbox.get():04d}-{month_spinbox.get():02d}-{day_spinb
    print("Selected date:", event_date)
event date label = tk.Label(root, text="Event Date:")
event date label.pack()
# Spinbox for day
day_label = tk.Label(root, text="Day:")
day label.pack()
day spinbox = Spinbox(root, from =1, to=31)
day_spinbox.pack()
# Spinbox for month
month_label = tk.Label(root, text="Month:")
month label.pack()
month spinbox = Spinbox(root, from =1, to=12)
month_spinbox.pack()
# Spinbox for year
year_label = tk.Label(root, text="Year:")
year label.pack()
year_spinbox = Spinbox(root, from_=2000, to=2030)
year_spinbox.pack()
location_label = tk.Label(root, text="Location:")
location_label.pack()
location_entry = tk.Entry(root)
location_entry.pack()
```

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description_label = tk.Label(root, text="Description:")
description_label.pack()
description_entry = tk.Text(root, height=4, width=30)
description_entry.pack()
# Radio buttons for Event Title
event_title_label = tk.Label(root, text="Event Status:")
event_title_label.pack()
# Variable to store the selected event title
event_title_var = tk.StringVar()
# Create radio buttons
upcoming_radio = tk.Radiobutton(root, text="Upcoming", variable=event_title_var,
upcoming_radio.pack()
ongoing_radio = tk.Radiobutton(root, text="Ongoing", variable=event_title_var, v
ongoing_radio.pack()
completed_radio = tk.Radiobutton(root, text="Completed", variable=event_title_va
completed_radio.pack()
submit_button = tk.Button(root, text="Submit", command=submit_event)
submit_button.pack()
root.mainloop()
```