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import tkinter as tk
from tkinter import ttk, filedialog, messagebox
import arcode
from PIL import Image, ImageTk
import os
class ORGenerator:
   def __init__(self, root):
       self.root = root
       self.root.title("Super QR Generator")
       self.root.geometry("500x650")
       self.root.configure(bg="#2C3E50")
       # Custom Styling
       self.style = ttk.Style()
       self.style.configure("TButton", font=("Helvetica", 12), padding=10)
       self.style.configure("TLabel", background="#2C3E50", foreground="white")
       # Header
       font=("Helvetica", 20, "bold"))
       self.header.pack(pady=20)
       # Input Section
       self.input_frame = ttk.Frame(root)
       self.input_frame.pack(pady=10)
       self.data_type = tk.StringVar(value="url")
       ttk.Radiobutton(self.input_frame, text="Phone", variable=self.data_type,
value="phone", style="TLabel").grid(row=0, column=0, padx=5)
       ttk.Radiobutton(self.input_frame, text="URL/Link", variable=self.data_type,
value="url", style="TLabel").grid(row=0, column=1, padx=5)
       ttk.Radiobutton(self.input_frame, text="PDF", variable=self.data_type,
value="pdf", style="TLabel").grid(row=0, column=2, padx=5)
       self.entry = ttk.Entry(root, width=40, font=("Helvetica", 12))
       self.entry.pack(pady=20, ipady=5)
       # Generate Button
       self.gen_btn = ttk.Button(root, text="Generate QR Code",
command=self.generate_qr)
       self.gen_btn.pack()
       # QR Display
       self.gr_label = ttk.Label(root, background="white")
       self.gr_label.pack(pady=20)
       # Save Button
       self.save_btn = ttk.Button(root, text="Save QR Code", command=self.save_qr,
state=tk.DISABLED)
       self.save_btn.pack(pady=10)
    def generate_qr(self):
       data = self.entry.get()
       if not data:
           messagebox.showerror("Error", "Please enter some data!")
           return
```

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try:
            gr = grcode.QRCode(
                version=1,
                error_correction=qrcode.constants.ERROR_CORRECT_H,
                box_size=10,
                border=4,
            )
            # Add proper prefix based on data type
            if self.data_type.get() == "phone":
                data = f"tel:{data}"
            elif self.data_type.get() == "pdf":
                if not data.lower().endswith(('.pdf', '/')):
                    data += ".pdf"
            qr.add_data(data)
            gr.make(fit=True)
            img = gr.make_image(fill_color="#E74C3C",
back_color="white").convert('RGB')
            img = img.resize((250, 250), Image.LANCZOS)
            self.tk image = ImageTk.PhotoImage(img)
            self.qr_label.configure(image=self.tk_image)
            self.save_btn.config(state=tk.NORMAL)
        except Exception as e:
            messagebox.showerror("Error", f"Generation failed: {str(e)}")
    def save_qr(self):
        path = filedialog.asksaveasfilename(
            defaultextension=".png",
filetypes=[("PNG files", "*.png"), ("All files", "*.*")]
        if path:
            try:
                self.tk_image._PhotoImage__photo.write(path, format='png')
                messagebox.showinfo("Success", f"QR Code saved successfully at:
n{path}")
            except Exception as e:
                messagebox.showerror("Error", f"Save failed: {str(e)}")
if __name__ == "__main__":
    root = tk.Tk()
    app = QRGenerator(root)
    root.mainloop()
```