import tkinter as tk

from tkinter import messagebox

class VoucherTestingSystem:

def \_\_init\_\_(self, master):

self.master = master

self.master.title("Voucher Testing System")

# Entry for voucher code

self.voucher\_entry = tk.Entry(master, width=30)

self.voucher\_entry.grid(row=0, column=0, padx=10, pady=10)

# Validate button

validate\_button = tk.Button(master, text="Validate Voucher", command=self.validate\_voucher)

validate\_button.grid(row=0, column=1, padx=10, pady=10)

# Result label

self.result\_label = tk.Label(master, text="")

self.result\_label.grid(row=1, column=0, columnspan=2, pady=10)

# Additional: Clear Entry Button

clear\_entry\_button = tk.Button(master, text="Clear Entry", command=self.clear\_entry)

clear\_entry\_button.grid(row=0, column=2, padx=10, pady=10)

# Additional: Save Voucher Button

save\_voucher\_button = tk.Button(master, text="Save Voucher", command=self.save\_voucher)

save\_voucher\_button.grid(row=1, column=1, padx=10, pady=10)

def validate\_voucher(self):

voucher\_code = self.voucher\_entry.get()

# Additional: Check for empty entry

if not voucher\_code:

self.result\_label.config(text="Please enter a voucher code.")

return

# Replace this with your voucher validation logic

if self.is\_valid\_voucher(voucher\_code):

result = "Valid Voucher! Enjoy your discount."

else:

result = "Invalid Voucher. Please enter a valid code."

# Additional: Display a message box with the result

messagebox.showinfo("Validation Result", result)

# Display the result

self.result\_label.config(text=result)

def is\_valid\_voucher(self, voucher\_code):

# Replace this with your own validation logic

# For simplicity, let's assume any code starting with "ABC" is valid

return voucher\_code.startswith("ABC")

def clear\_entry(self):

# Additional: Clear the voucher entry field

self.voucher\_entry.delete(0, tk.END)

self.result\_label.config(text="")

def save\_voucher(self):

# Additional: Save the voucher code to a file or database

voucher\_code = self.voucher\_entry.get()

if voucher\_code:

with open("saved\_vouchers.txt", "a") as file:

file.write(f"{voucher\_code}\n")

self.result\_label.config(text="Voucher saved successfully.")

else:

self.result\_label.config(text="Please enter a voucher code to save.")

def main():

root = tk.Tk()

app = VoucherTestingSystem(root)

root.mainloop()

if \_\_name\_\_ == "\_\_main\_\_":

main()