USER INTERFACE DESIGN 230701233

EXP.NO:3 DATE:08.02.2025

TASK: To create a simple GUI (GRAPICS USER INTERFACE), VUI (VOICEUSER INTERFACE), CLI (COMMNAD LINE INTERFACE) using Python with required libraries

GUI:

PYTHON CODE:

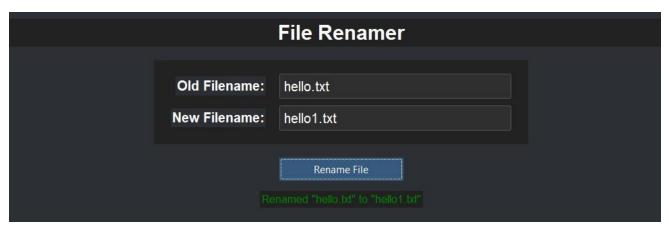
```
import tkinter as tk from tkinter import ttk
import ttkbootstrap as tb # Modern UI theme
from PIL import Image, ImageTk # For icons

def rename_file():
    old_name = old_file_entry.get()
new_name = new_file_entry.get()
if old_name and new_name:
    status_label.config(text=f'Renamed "{old_name}" to "{new_name}"', foreground="green")
    else:
        status_label.config(text="Please enter both filenames", foreground="red")
root = tb.Window(themename="superhero") # Stylish theme root.title("File
Renamer") root.geometry("1000x1000") root.resizable(False, False)
root.configure(bg="#D1E8E2") # Light pastel background

title_label = tk.Label(root, text="File Renamer by 230701233", font=("Arial", 20, "bold"), fg="BLACK", bg="#4682B4") title_label.pack(fill="x", pady=10)
```

frame = tk.Frame(root, bg="#D1E8E2", padx=20, pady=20) frame.pack(pady=10) old_file_label = ttk.Label(frame, text="Old Filename:", font=("Arial", 12, "bold")) old_file_label.grid(row=0, column=0, padx=10, pady=10, sticky="e") old_file_entry = ttk.Entry(frame, width=25, font=("Arial", 12)) old_file_entry.grid(row=0, column=1, padx=10, pady=10) new_file_label = ttk.Label(frame, text="New Filename:", font=("Arial", 12, "bold")) new_file_label.grid(row=1, column=0, padx=10, pady=10, sticky="e") new_file_entry = ttk.Entry(frame, width=25, font=("Arial", 12)) new_file_entry.grid(row=1, column=1, padx=10, pady=10) rename_button = tb.Button(root, text="Rename File", bootstyle="success", command=rename_file, width=15) rename_button.pack(pady=15) icon_img = Image.open("C:\sem 4\PUP.png").resize((1000, 50)) # Add your own icon.png icon_tk = ImageTk.PhotoImage(icon_img) title_frame = tk.Frame(root, bg="#4682B4", height=50) title_frame.pack(fill="x") icon_label = tk.Label(title_frame, image=icon_tk, bg="#4682B4") icon_label.pack(side="left", padx=10, pady=5) status_label = tk.Label(root, text="", font=("Arial", 10), bg="#D1E8E2") status_label.pack(pady=5) root.mainloop()

OUTPUT:



VUI:

Python code:

```
import speech_recognition as sr import
os def rename_file(old_name,
new_name):
    try:
    if not os.path.exists(old_name):
        print(f"Error: The file '{old_name}' does not exist.")
```

```
return
    os.rename(old_name, new_name)
                                        print(f"File successfully
renamed from '{old_name}' to '{new_name}'.") except Exception as e:
    print(f"Error renaming file: {e}")
def parse voice command(command):
 try:
                                    if "rename"
    command = command.lower()
in command and "to" in command:
                                       words =
command.split()
                      old_name_index =
words.index("rename") + 1
                               new_name_index
= words.index("to") + 1
                            old_name =
words[old_name_index]
                             new_name =
words[new_name_index]
                              return old_name,
new_name
    else:
      print("Invalid command format. Please use: 'Rename <old_name> to <new_name>'.")
                                             print(f"Error parsing command: {e}")
return None, None except Exception as e:
return None, None
def listen_for_command(): recognizer =
sr.Recognizer() mic = sr.Microphone()
print("Listening for a command to rename a file...")
with mic as source:
    recognizer.adjust_for_ambient_noise(source)
    try:
      audio = recognizer.listen(source, timeout=20)
except sr.WaitTimeoutError:
      print("Listening timed out. No command detected.")
      return
```

try:

OUTPUT:

```
Run GUI × vui ×

"C:\Users\\PyCharmMiscProject\\PyCharmMiscProject\.venv\Scripts\python.exe"

Listening for a command to rename a file...

Command received: UI.TXT TO UI1.TXT

CHANGED SUCCESSFULLY. FROM OLD NAME TO NEW NAME.
```

CLI:

Pyhton code:

OUTPUT:

```
"C:\Users\\PyCharmMiscProject\PyCharmMiscProject\
Welcome to the File Rename CLI
Enter the current name of the file: ll.txt

Enter the new name for the file: kk.txt

Result:The file 'll.txt' changed to 'kk.txt'.
```