## **Project Development Phase**

# Sprint - 4

Date	19-11-2022			
Team ID	PNT2022TMID30648			
Project Title	Real-Time Communication System Powered by AI for Specially Abled			

#### Interfacing all the component to flask app:

- 1. Main Flask app:
  - a. Create a flask app.

```
i. from flask import Flask ,render_template,Response,jsonify
```

b. Imported the prediction program to flask app.

```
i. import opencv
```

c. Imported train list to the flask app.

```
i. import trainlist
```

d. Adding required functions to render the templates.

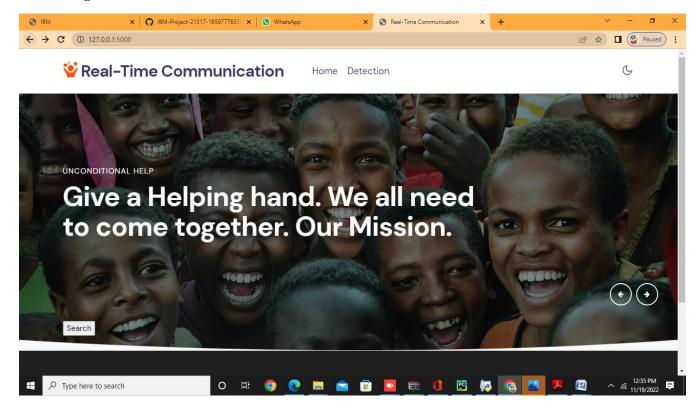
```
@app.route("/label") #for label
def label_text():
   index=opencv.get_frame()[1]
   dataset=trainlist.dataset
   dataset.append("-")
   label=dataset[index]
   return jsonify(label)
@app.route("/home") #for home page
def index():
   opencv.cap.release()
   return render_template('index.html')
@app.route("/translate") #for translation
def translate():
   opency.cap=opency.cv.VideoCapture(0)
   txt=label_text()
   return render_template('video_out.html',txt=txt.json)
def gen_vid():
   global video_camera
   global global_frame
   while True:
       frame =opencv.get_frame()[0]
       if frame != None:
           global_frame = frame
           yield (b'--frame\r\n'
                   b'Content-Type: image/jpeg\r\n\r\n' + frame + b'\r\n\r\n')
           yield (b'--frame\r\n'
                          b'Content-Type: image/jpeg\r\n\r\n' + global_frame + b'\r\n\r\n')
@app.route("/video")
def video():
   return Response(gen_vid(),
                   mimetype='multipart/x-mixed-replace; boundary=frame')
```

e. Run the app.py (Flask App).

(Project) PS C:\Users\mythili\ Documents\PROGRAMMING\Project> & c:\Users\mythili\Documents\PROGRAMMING\Project\Scripts\python.exe c:\Users\mythili\Documents\PROGRAMMING\Project\app.py

#### **OUTPUT:**

#### Main Page:



### **Choice Page:**

