## **Project Development Phase**

# Sprint - 3

Date	10-11-2022
Team ID	PNT2022TMID22290
Project Title	Real-Time Communication System Powered by AI for Specially Abled

#### Creating flask app:

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

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

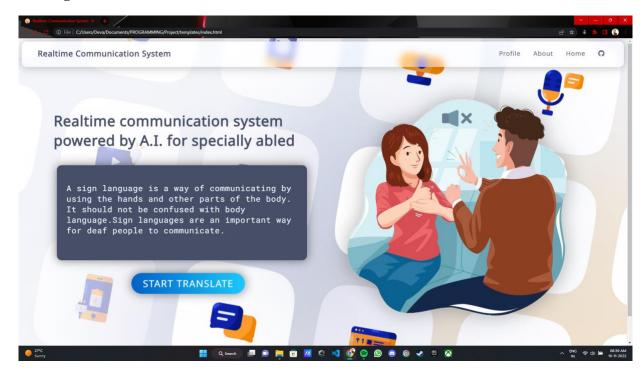
b. Adding required functions to render the templates.

```
@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():
   opencv.cap=opencv.cv.VideoCapture(0)
   txt=label_text()
   return render_template('video_out.html',txt=txt.json)
def gen_vid():
   global video_camera
   global global_frame
       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") # Video page
def video():
```

c. Run the app.py (Flask App). (Project) PS C:\Users\Deva\Documents\PROGRAMMING\Project> & c:\Users\Deva\Documents\PROGRAMMING\Project/Scripts\python.exe c:\Users\Deva\Documents\PROGRAMMING\Project\app.py

### **OUTPUT:**

#### Main Page:



Video translate Page (for Normal persons to understand Specially abled person):

