BUILDING A FLASK APPLICATION

Language used : Python

Required Packages :

Import numpy as np

Import cv2

Import os

From keras.models import load_model

From flask import flask, render_template, response

Import tensorflow as tf

From gtts import gtts #to convert text to speech

Global graph

Global writer

From skimage.transform import resize

App.py

```
from flask import Flask, Response, render_template
from camera import Video

app = Flask(__name__)
@app.route('/')
def index():
        return render_template('index.html')

def gen(camera):
        while True:
                frame = camera.get_frame()
                yield(b'--frame\r\n'
                        b'Content-Type: image/jpeg\r\n\r\n' + frame +
                        b'\r\n\r\n')

@app.route('/video_feed')
def video_feed():
        video = Video()
        return Response(gen(video), mimetype='multipart/x-mixed-replace; boundary =
frame')
```

```
if __name__ == '__main__':
        app.run()
```

main.py

```
import cv2

video = cv2.VideoCapture(0)

while True:
        ret, frame = video.read()
        cv2.imshow("Frame", frame)
        k = cv2.waitKey(1)
        if k == ord('q'):
                break

video.release()
cv2.destroyAllWindows()
```