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from flask import Flask, request, render_template
import RPi.GPIO as GPIO
import time

#Init Flask app
app = Flask(__name__)

#Setup GPIO input to send to RPi5
BUTTON_PIN = 18 #GPIO pin # for buttons
GPIO.setmode(GPIO.BCM)
GPIO.setup(BUTTON_PIN, GPIO.IN, pull_up_down=GPIO.PUD_UP)

#DCI display home screen
def show_home_screen():
    print("Displaying Home Screen")

#DCI display shows study screen (timer)
def show_study_screen():
    print("Displaying Study Screen")

#DCI display shows break screen (timer)
def show_break_screen():
    print("Displaying Break Screen")

#User should be able to pause study session to pull up break screen
#GPIO Button Press Callback
def button_callback(channel):
    show_break_screen()

#Attach button callback
GPIO.add_event_detect(BUTTON_PIN, GPIO.FALLING, callback=button_callback, bouncetime=300)

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#Flask routes for web app input
@app.route('/')
def home():
    return render_template('index.html')

@app.route('/show_home')
def web_show_home():
    show_home_screen()
    return "Home Screen Displayed"

@app.route('/show_study')
def web_show_study():
    show_study_screen()
    return "Study Screen Displayed"

@app.route('/show_break')
def web_show_break():
    show_break_screen()
    return "Break Screen Displayed"

#Run Flask app
if __name__ == '__main__':
    try:
        #Show the initial home/display screen
        show_home_screen()
        # Start Flask app
        app.run(host='0.0.0.0', port=5000)
        #We place port number w/ port that matches our web app
    except KeyboardInterrupt:
        print("Stopping")
    finally:
        GPIO.cleanup()

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