**Technical Take-Home Challenge**

As the newest data engineer at Recycleye, you've been given the task of building a component of our new toy-elephant-in-trash detector service called TrashDetector.

Our datascientists have built a function that accepts two images (img1, img2), detects differences between them and:

- draws img2 out with a green box around the differences of note

- outputs a bounding box coordinates for the differences

We want you to build an HTTP API to accept two JPEG images and run them through the provided function, returning the resulting image and bonding box coordinates in the response.

**Base:**

* Build a simple docker microservice that can receive 2 uploaded images at a time.
* Use the following code [link](https://www.pyimagesearch.com/2015/05/25/basic-motion-detection-and-tracking-with-python-and-opencv/) (lines 50-72) to detect the difference between the two images. Output as a bounding box.
* Code a simple GUI/web app to upload and display images/results.

**Stretch:**

* Place the bounding box algorithm in a separate docker container/api
* Write a series of automated tests for image uploads, and difference detection.

Provide a README with build instructions and steps to invoke the API/CLI. Please mention your design decisions, tradeoffs, and ideas for how you could make your solution better.

Do not spend more than 2 hours on this task. If you run out of time, send through what you have working with a README on where you got to, challenges and how you would overcome

them.