NBC News Digital Code Challenge

Image Resizer Service

Objective:

Create a web service to handle image resize requests.

Context:

Mobile apps come in many screen sizes, but photojournalists typically provide one large image as the source. We need a service that will efficiently provide the exact sizes the clients need, and that will offer both end users and app developers the best experience.

Requirements:

- Please implement using either Go or Node.js

- Provide the user a way to request an "original" raw image located on the file system.

  http:/ /domain/{rawImagePath}/rawImageName
  - You don't have to implement a way of uploading an image, you can start with a set of raw images to work with already loaded into the service.
  - However, design against an image set that represent what user uploads would look like
    - multiple images that have the same filename e.g. `IMG_0001.JPG`
    - images of different aspect ratios and original sizes

- Provide the user a way to request a resized image against raw image.

  http:/ /domain/{resizedImagePath}/resizedImageName
  - The resize image should be generated and saved in the file system matching the resizedImagePath.
  - resizedImageName is some composition of **rawImageName + resizeOption**.

- resizeOption should contain width and height which are used to generate the resized image from the raw image. (If you're using Go, consider using this library https://github.com/h2non/imaginary to process the image)

- The service should support resize of JPG, PNG and GIF formats

- We will look for quality over speed. If you find yourself making sacrifices for speed of development, please document these decisions in a README or in the code.

- Writing tests is encouraged.

- Input validation and error handling is also encouraged.

Submission:

You're expected to submit a URL to a git repository (GitHub preferred). Make sure there's a README containing instructions on how to run your service locally.