

## Azure / Azure Devops assignment

### Task Requirements

Using azure functions create an http endpoint that accepts an image and starts a background job that will edit the image using the EditImage function from the ImageHelper\_2022. After editing the image and getting the primary colors, use the api from [thecolorapi.com](https://thecolorapi.com) to get one or more of its color names. Next use any other public api to get a text related to these names and use add the text on top of the image.

The initial http endpoint will return a unique id or link to a different endpoint that either list that the job is still in progress or a link to all the generated image served from the blob storage.

A sample of code for writing text on an image can be found here.

[https://github.com/wearetriple/InHolland-CCD/tree/master/ImageEditor\\_2022](https://github.com/wearetriple/InHolland-CCD/tree/master/ImageEditor_2022)

### Must

- Expose publicly accessible API for uploading an image.
- Employ QueueTrigger to start the job in a background so the initial call stays fast.
- Employ Blob Storage to store all generated images and to expose the files.
- Employ the color api to color names
  - [thecolorapi.com](https://thecolorapi.com)
- Employ any public api for retrieving a text to write on top of the image related the color names.
- Expose a publicly accessible API for fetching the generated images using a HttpTrigger.
- Provide exported Postman Collection as API documentation.
  - <https://learning.postman.com/docs/sending-requests/intro-to-collections/>
- Create a fitting Bicep template (try to include the queues as well so you don't have to use CreateQueueIfNotExists in your code).
- Deploy code and have a working endpoint.
- Add all files to azure devops repo and add [r.schravesande@wearetriple.com](mailto:r.schravesande@wearetriple.com) to organization and project.
- Deploy both the resources and code automatically from Repo using Azure Devops pipelines.

## Could

- Use SAS token instead of publicly accessible blob storage for fetching finished image directly from Blob.
- Deploy code using script (Azure CLI) and include the script in your repo.
- Use authentication on request API. (Be sure to provide me with credentials)
- Use Azure AD authentication on request API.
- Employ multiple queues for the different workloads.
- Provide status API for fetching processing status and saving status in a azure storage Table.
- Other language than C# is allowed

\*Having all “Must” requirements will result in a minimal passing grade, also having “Could” requirements results in a higher grade.

**Deadline:** Monday 26 September 09:00 AM CET

Please inform me that you finished the assignment by mailing to [r.schravesande@wearetriple.com](mailto:r.schravesande@wearetriple.com)