

# Article Management Service

Our company has a requirement to create a new service to store and manage Articles. An article is an item that has a title, a description, an expiration date and some images attached to it. It is very important for us to be able to store, update and retrieve those articles in a timely manner (as far as the client is concerned). Also, it is important that the article is removed, together with its associated images, when its expiration date is reached. The assignment is to implement this article management service.

## **Instructions:**

The service should hold articles with the following requirements

- Every article should have a unique identifier, title, expiration date and description.
- Description must be a maximum of 4KB or 4000 characters.
- Each article also can have images attached
  - Maximum of 3 images allowed per article.
  - Max size of image should not exceed 5MB

The service must provide the following endpoints implemented in HTTP and/or GRPC (it would be important to be able to justify your choice):

- Create an article
- Add image to an article. You can provide the path(s) and assume the image will be there
- List article titles. This endpoint should have an option to list articles that have images attached, or list all articles that do not have any image attached.

The service should automatically remove articles based on their expiration date

## **Should not:**

- Implement any image uploading functionality. You can assume the image will be in the defined path.
- Create a separate database. An in memory or file system database should be enough for the task

## **Guidelines:**

- We are looking for the service to be production ready when it comes to configuration, reliability and observability
- Be ready to elaborate on the testing strategy for this service
- It would be a plus if you could provide clear documentation
- The portability of the service is up to you

## **Delivery:**

For delivery of the assignment you could create a **Private** repository on your GitHub and share it with our reviewers. The names of the reviewers will be shared with you at a later date. We would appreciate it if you do not share the solution, or make it public