

Coding Exercise

You are developing the service layer of an application like Instagram. You are working on a module which is responsible for supporting image upload and storage in the Cloud. Along with the image, its metadata must be persisted in a NoSQL storage. Multiple users are going to use this service at the same time. For this reason, the service should be scalable.

The team currently uses API Gateway, Lambda Functions, S3 and DynamoDB services.

Language: Python3.7+

Tasks:

1. Create APIs for:
 1. Uploading image with metadata
 2. List all images, support at least two filters to search
 3. View/download image
 4. Delete an image
2. Write unit tests to cover all scenarios
3. API documentation and usage instructions

Development Environment

Use LocalStack to create a local development environment. If you are new to LocalStack, refer to the below articles:

- [How to use LocalStack with Docker compose](#)
- [How to use AWS CLI with LocalStack](#)
- [What is LocalStack?](#)