

FIT5225 Cloud computing and security - S1 2023

Assignment 2 -

Project (Group) -Implementing and deploying a modern application on the AWS Cloud

Final team report - Group 14

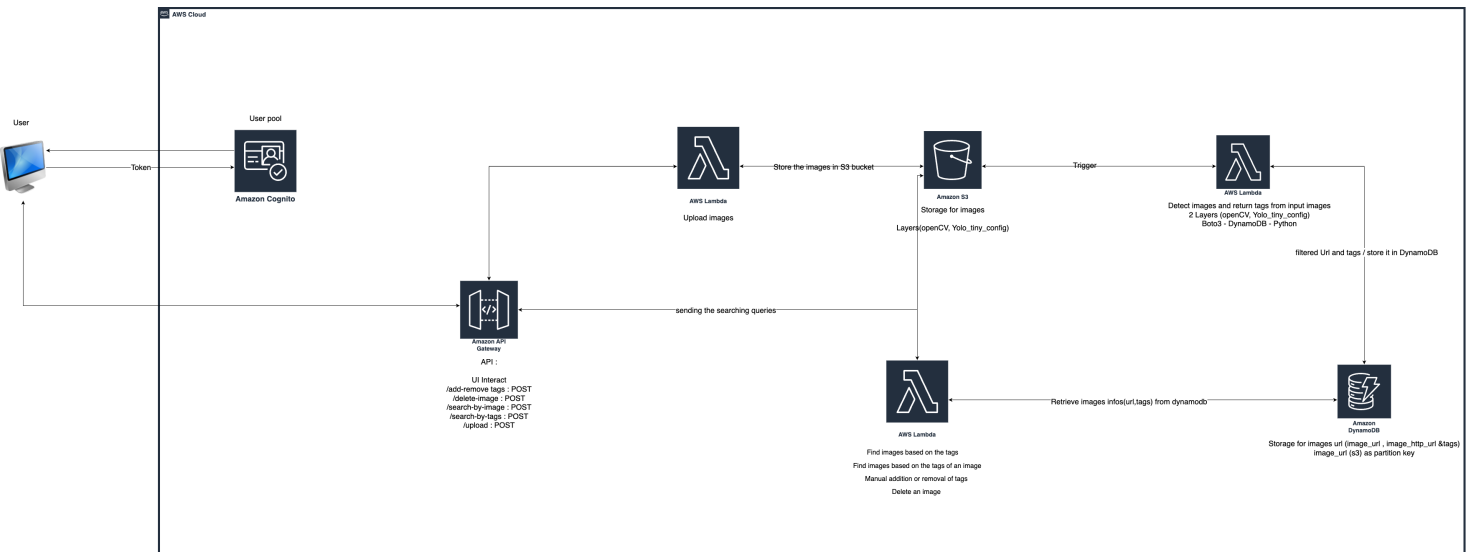
Yiashi Chen - 28506367

Bahram Ebrahimi - 32923791

Seungjae Lee - 32585748

Eishi sano - 32683235

1. Architecture diagram



Architecture diagram - Group 14

2. role of each team member

| | Student ID | Contribution | Task |
|-----------------|------------|--------------|---|
| Jiashi Chen | 28506367 | 30% | Queires (Find images based on the tags, Find images based on the tags of an image), Image Upload, image detect |
| Bahram Ebrahimi | 32923791 | 30% | Authentication & Authorisation UI - Interface, find images by tags |
| Seungjae Lee | 32585748 | 20% | Queries(Manual addition or removal of tags), Report, image upload |
| Eishi sano | 32683235 | 20% | Report, Queries(find image by tag, Delete an image) |

3. user guide

User Guide

Sign Up

To begin using the application, you need to sign up for an account. Start by visiting the application's website and locating the "Sign up" button. Click on it to proceed. On the sign-up form, you will be required to enter your email address, first name, last name, and password. Once you have provided all the necessary information, submit the form. Shortly after, you will receive a verification message in your email inbox. Open the email and follow the instructions to verify your email address and set a new password for your account.

Log In

Once you have successfully created an account, return to the application's website and find the "Login" button. Click on it to access the login page. Enter your registered email address and password into the provided fields. Make sure your input is accurate and complete. After confirming the information, click the "Login" button to log into your account.

Upload Images

After logging in, you can start uploading images. Navigate to the file upload page by selecting the appropriate option from the menu. On the file upload page, you will find a prominent "Upload images" button. Click on it to initiate the image upload process. You can choose the desired images from your device by using the file selection interface. Once you have selected the images, click the "Upload" button to begin uploading. Wait for a few seconds while the system processes the upload. Upon completion, you will receive a success message confirming the successful upload of your images.

Query Images Based on Tags

Then, to search for images based on specific tags, locate the "Search" button on the application's interface. Click on it to initiate the query process. Wait for the system to process your query and retrieve the relevant results. Additionally, you have the option to specify a minimum repetition count for each tag. The results will be displayed as a list of image thumbnails or URLs that include the requested tags.

Query Images Based on Tags of an Image

After that, if you wish to find images similar to a particular image, use the "Search Similar Images" feature. Begin by clicking on the "Search Similar Images" button on the search page. Then, select an image by clicking the "Select Image" button and choose the desired image file to upload. The system will analyze the uploaded image and extract its tags. It will then search the database for other images that contain the same set of tags with at least the specified count. The screen will display a list of image thumbnails or URLs for the matching images.

Add or Remove Tags for an Image

Subsequently, to add or remove tags for a specific image, access the image's details page and select the "Edit Tags" option. The system will present you with the URLs associated with the image for which you want to modify the tags. Choose whether you want to add or remove tags and enter the tags and their corresponding counts in the JSON format. Submit the request by clicking the "Add" or "Remove" button, depending on your desired action. The application's system will update the tag list of the image in the database accordingly, based on the provided action and tags.

Delete an Image

Finally, to delete an image from your account, choose the "Delete Image" option. Similar to the process of adding or removing tags, click on the "Access the Image Deletion" button. Enter the URL of the image you want to delete into the provided field. Once you have entered the URL, click the "Delete" button to proceed with the deletion. The image will be removed from the S3 storage, and the corresponding entries in the database will be deleted as well.

4. Source code

Github Link : <https://github.com/realbahram/FIT5225-AWS>