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CMSC389L Final Project Checkpoint
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**Overview of Progress**

Right now, I am able to upload an image through the AWS S3 console. An image uploaded triggers a Lambda function that uses AWS Rekognition to tag the image, and inserts that data into an RDS database.

**Remaining Work**

1. Build a simple web interface that allows users to both upload and query their images. The largest challenge for this is enabling the web interface to interact with the S3 bucket. If I cannot do this, I will make the bucket public for testing purposes.
2. Enable the app to work with multiple users. I will need to use Cognito to allow users to login, and enable the database to tag who owns what image. It will be pretty simple for the query to only select images that that user owns.

**Problems So Far**

1. Setting up the dependencies for the Lambda function.

Apparently there were some problems with my pip installation which prevented me from packaging the function properly. In order to fix this I had to reinstall pip.

2. Enabling the web-interface to interact with the S3 bucket.

I was having a lot of trouble enabling permissions for my web interface to interact with the S3 bucket. For now, I am going to make the bucket public so I can setup the web interface with the users.

3. Enabling secure-user basis.

Even if I get the permissions set up for the web-interface correctly, I still think that there will be security issues. I can only allow the php function to get access to the entire bucket, and while I can query and display images using the logged-in username. I still feel that there may be a security issue.

I don’t know exactly what it would be, but it seems that a malicious user would be able to access other users images.