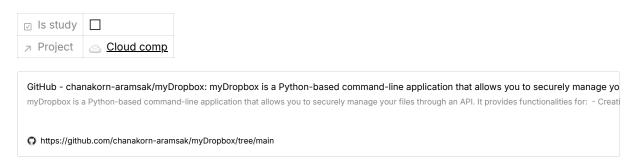
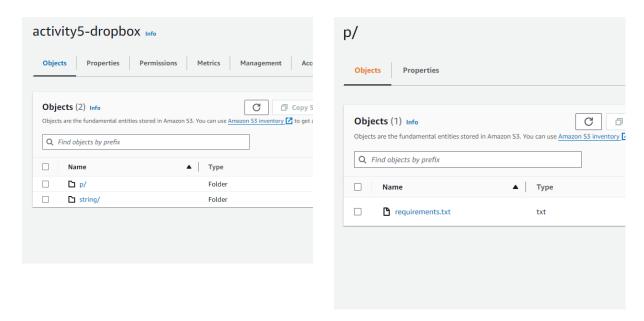
# **Activity 5 lab**



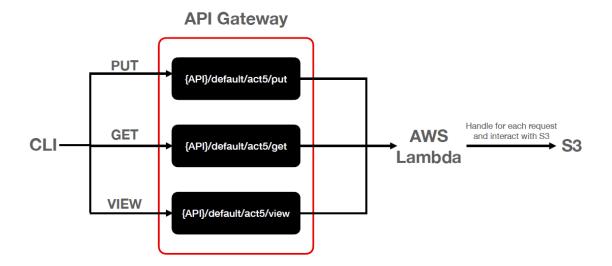
# S3 design

ใช้วิธีการจัดการเมื่อมี User หลายคนโดยการสร้าง Folder แยกสำหรับแต่ละ user

• ซึ่ง user ถูกแบ่งให้ distinct ด้วย email ในอนาคตก็จะสร้างชื่อ folder ตาม user email



# **Overview system**



# Readme for myDropboxClient:

# **Description:**

myDropbox is a Python-based command-line application that allows you to securely manage your files through an API. It provides functionalities for:

- · Creating new user accounts
- · Logging in to existing accounts
- · Uploading and downloading files
- · Viewing a list of your files

#### Installation:

1. Install required dependencies:

```
pip install -r requirements.txt
```

2. Create a ... file in the root directory of the project and add the following line:

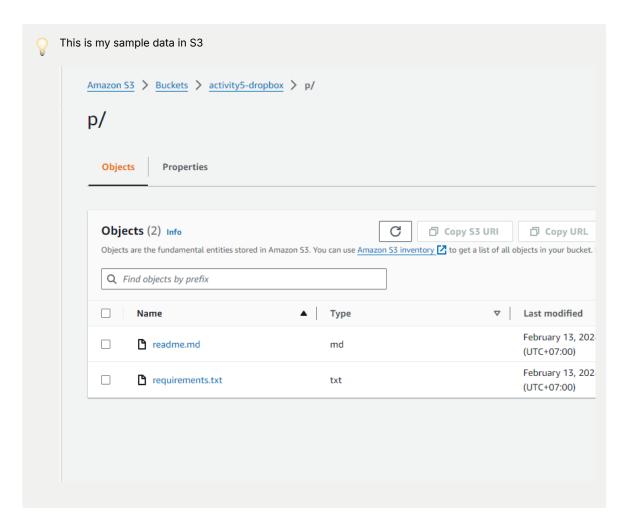
```
API_GATEWAY = "https://2rgp0s5019.execute-api.us-west-2.amazonaws.com/default"
```

#### Usage:

1. Start the application:

```
python myDropboxClient_6330078421.py
```

- 2. Follow the on-screen instructions to create a new user account, log in, or use available commands:
  - newuser username password password: Create a new user
  - login username password: Log in to existing account
  - put filename: Upload a file
  - get filename username: Download a file
  - view: List your files
  - quit: Exit the application



- you can try command to add data into this bucket username = p
  - ∘ view (still can view only username = p)
  - o get <u>readme.md</u> p
  - o put <filename.txt> to push data into username = p

# **API documentation for lambda function**

# API 1: GET /get

#### **Purpose**

Downloads a specific file owned by the specified user.

### **Request Parameters**

Parameter	Required	Description
owner	Yes	The owner of the file.
file_name	Yes	The name of the file to download.

### **Success Response**

The content of the requested file, with the Content-Type header set to the appropriate file type.

# **Error Response**

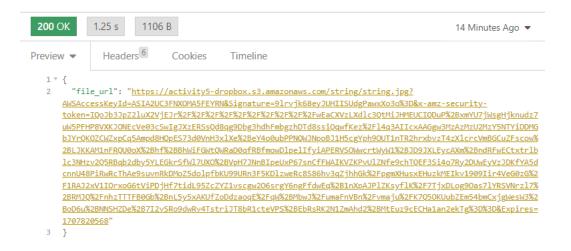
• Status code 404: File not found.

- · Status code 403: Unauthorized access.
- · Other status codes as appropriate.

#### **Example Usage**

```
curl --request GET \\
   --url "https://2rgp0s50l9.execute-api.us-west-2.amazonaws.com/default/act5/api/v1/get")
\\
   --header 'Content-Type: application/json' \\
   --data '{
      "owner": "p",
      "file_name": "my_image.jpg"
}'
```

#### **Expected response**



### API 2: GET /view

#### **Purpose**

Lists all files owned by the specified user.

#### **Request Parameters**

Parameter	Required	Description
owner	Yes	The owner of the files to list.

### **Success Response**

An array of JSON objects, each containing:

- owner: The owner of the file.
- file\_name : The name of the file.
- file\_size: The size of the file (in bytes).

## **Error Response**

- Status code 403: Unauthorized access.
- Other status codes as appropriate.

### **Example Usage**

```
curl --request GET \\
   --url "https://2rgp0s50l9.execute-api.us-west-2.amazonaws.com/default/act5/api/v1/view"
\\
   --header 'Content-Type: application/json' \\
   --data '{
      "owner": "p"
}'
```

#### **Expected response**



# API 3: PUT /put

#### Purpose:

• Uploads a new file owned by the specified user.

#### **Request Parameters:**

Parameter	Required	Description
owner	Yes	The owner of the file to upload.
file_name	Yes	The name of the file to upload, including the file extension.
file	Yes	Base64-encoded content of the file to upload.

#### **Success Response:**

- Status code 200: File uploaded successfully.
- Optional response body containing information about the uploaded file (e.g., ID, size).

### **Error Response:**

- Status code 400: Bad request (e.g., invalid parameters, missing data).
- Status code 403: Unauthorized access.
- Status code 413: Payload too large.
- Other status codes as appropriate.

### **Example Usage:**

```
curl --request PUT \\
    --url "https://2rgp0s50l9.execute-api.us-west-2.amazonaws.com/default/act5/api/v1/put"
\\
    --header 'Content-Type: application/json' \\
    --data '{
        "owner": "johndoe",
```

```
"file_name": "my_image.jpg",
    "file": "iVBORw0KGgoAAAANSUhEUgAAAAEAAAABAQMAAAA121bKAAAAA1BMVEUAAACnej3aAAAAAXRSTlMAQ
ObYZgAAAApJREFUCNdjYAAAAAIAAeIhvDMAAAAASUVORK5CYII="
}'
```

# **Expected response**



# **Prerequisites**

- AWS Account
- Amazon S3 bucket
- Amazon Lamda function configured with API Gateway \

