Simple GET & PUT with Python

For this program, PyCharm and Boto3 will need to be installed in order for the code to be executed. Instructions on how to install and configure Boto3 are shown below.

Notes:

There are limitations on this code as it will assume that you have all the bucket names and file names typed correctly.

Installation:

PyCharm will be needed in order to have this code be run.

1. Install Boto3 using this link either by downloading from: https://aws.amazon.com/sdk-for-python/ or running the commands "`pip3 install boto3`" into the terminal.
2. Configure AWSCLI with your access key, secret key, and your endpoint configuration by running the commands "`awscli configure`". If no output is given out after configuration, your information has been saved.
3. Download the community version of PyCharm which we will use to run the code.
4. Download Boto3 into Pycharm by launching Pycharm and going into **File >> Default Settings >> Project Interpreter** and adding packages by clicking the "+" sign in the window.
5. Type in Boto3 into the search bar and click "Install Package". Once that is installed, click "apply" and "OK".
6. Code ready for configuration and execution.

Instructions:

1. This program allows you to choose the option of either doing a GET or a PUT on an object. The code will allow users to interact with the code and select/create buckets and files of their choice which will then talk to the ActiveScale servers. Please note that the user will have to type in valid bucket names and files in order for this code to execute out correctly.
2. Configure the areas of code shown in pink as shown in Figure 1.

```
4   s3 = boto3.resource('s3', endpoint_url = 'http://                    ')
5   client = boto3.client('s3')
6   session = boto3.session.Session()
7
8   s3_client = session.client(
9       service_name='s3',
10      aws_access_key_id='                    ',
11      aws_secret_access_key = '                                        ',
12      endpoint_url='http://                    ',
13  )
```

Figure 1: Code Configuration needed in areas shown in pink

3. A flow chart of the process the code runs is shown below in Figure 2.

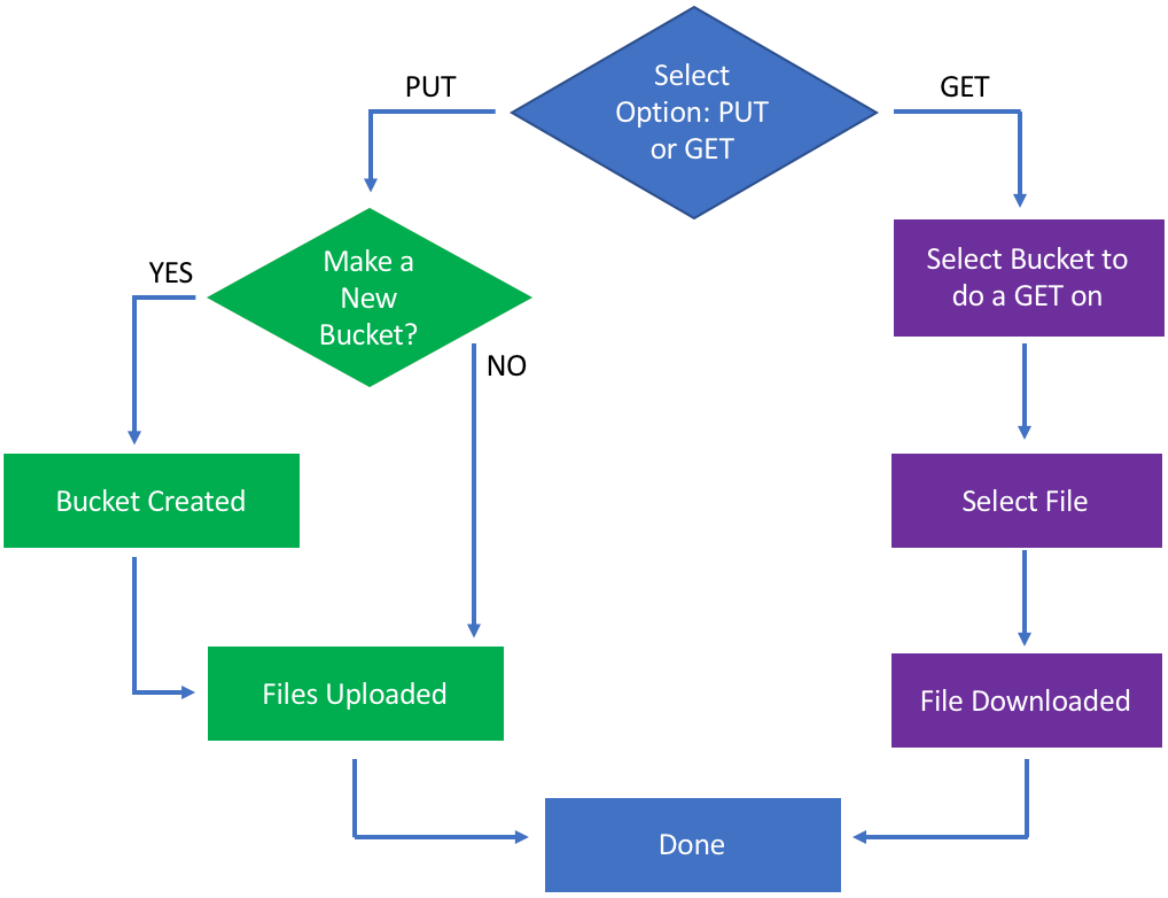

Figure 2: Flow Chart of the Code when Executing