MANUAL

The zip file contains the following files:

- File Generator Program
- Cover Report
- Google App Engine files

Following is the link for the application we have developed:

http://global-course-762.appspot.com

File Generator:

The file generator program is written in Python. Run the dataset_gen.py file in the console. Enter the number of files to be generated and the size of the file to be generated in KB.

The File Generator program is used to generate a set of files made up of random chars and alphabets. The name of the files are also alphanumeric as required by the assignment.

Application:

We have developed the application on Windows using the Google App engine Python SDK. The version of Python used is 2.7 and the App engine Launcher version is “1.9.14”

In this application, we have developed a page for the user to upload files to the Google App engine. The front end provides the interface to upload files to the App Engine and the Back end stores the files in the Google Cloud storage or Memcache.

The program contains the flag SETMEMCACHE. If SETMEMCACHE is true then the files smaller than 100KB will be stored on memcache. If it is set to false then all the files will be stored on Google Cloud Storage.

If the size of the file is greater than 1MB the file is stored on the Google Cloud Storage else it is stored in Memcache.

The user has to enter a key along with the file in order to perform further operations on the site. If the user wants to check if the file exists on Google Cloud Storage he has to use this key.

In the find field we display the contents of the file uploaded to the Google Cloud Storage.

If we want to remove a file from the storage we have to enter the key of the file.

List contains the names of all the keys which are used to uniquely identify each file uploaded to the Google App Engine.

In order to upload all the files generated using the File generator to google cloud storage we have created a bucket called BiggerBlooBucket and uploaded the files from the command line using the **gsutil cp** command.