1 Introduction

The "textit-downloader" is a server developed in Java, in order to retrieve the data from TextIt service every week, using TextIt API.

See WSCTextItGuidev1.pdf (by Tyler) for more details about TextIt.

2 Implementation

2.1 Data retrieval

The server gets the flow ids from TextIt first, then downloads the runs according to the flow ids.

2.1.1 Getting TextIt flow id

It gets flow ids from TextIt using TextIt API Flow Endpoint: https://api.textit.in/api/v1/flows.json

As to the requirement of weekly retrieval, it only collects the data of the last two weeks by adding the query parameter "after": https://api.textit.in/api/v1/flows.json?after=2016-01-18T00:00:00.000

Then the TextIt service would respond a list of the flows in JSON format.

The server searches the "uuid" of the flows in the response and saves them in a list.

2.1.2 Downloading data of the runs

According to the list, the server downloads the runs by using TextIt API Flow Run Endpoint: https://api.textit.in/api/v1/runs.json?flow_uuid=f5901b62-ba76-4003-9c62-72fdacc1b7b7 , and then save them as JSON files named as follow,

20151026-0c07e01a-3123-4359-9436-d43e4fb44043-1.json

20151026 : The JSON file was downloaded on Oct. 26, 2015.

0c07e01a-3123-4359-9436-d43e4fb44043 : The UUID of the flow. (flow_uuid) I think this is the unique id for flows.

1 : This file is the first page of the flow data.

See "public class TextItDownloader" in TextItDownloader.java for more details. (Line 27 – 29)

2.2 Weekly running

This server runs weekly and retrieve the data of the TextIt flows that created in the last two weeks.

For example, to get the data of Zambia's flows, the server runs on Saturdays by setting up the job scheduler *cron* in Linux system as follows.

        0 0 * * sat textit-downloader/Zambia/bin/start-downloader.sh

For Kenya's data retrieval on Thursdays,

0 0 * * thu textit-downloader/Kenya/bin/start-downloader.sh

3 Deploying

After running "mvn install", find the "target/deploy" folder in the project folder and upload the "bin", "conf", and "lib" folders and the jar file in it to the VM.

Fill up the value of textit.token in "bin/config.properties" file.

If you would like to store the JSON files in a specific place, change the value of textit.downloader.outputdir in "bin/config.properties" file.

Set up the job scheduler "cron" as mentioned above.