DASA Project

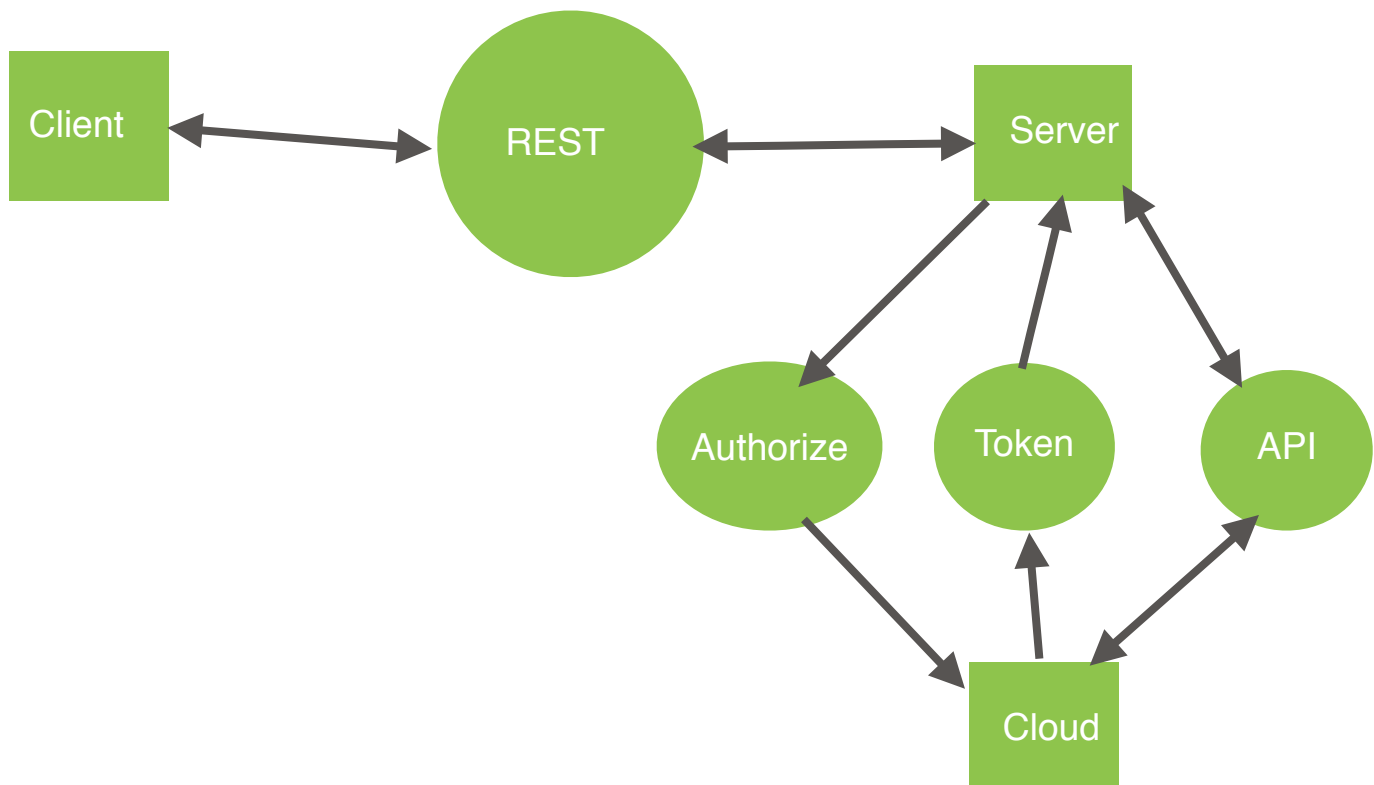## Multi-cloud on Website

Students

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Introduction

This is a website provide for user can connect to multi could storage. In this project, we implement to provide 2 could storage is Dropbox and Google Drive.

The structure of project

- Server store token then verify authorization is successful.
- In another request to server from client, client will load token that stored to communicate with cloud API and response data to client.

REST API

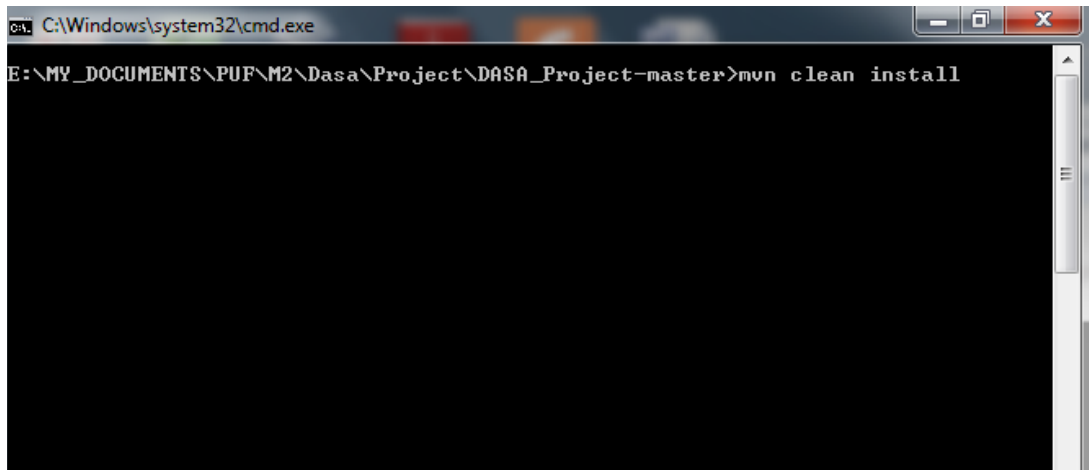| No	URL	Method	Description
1	rest/serviceGG/GetAuthURL	POST	Response Authorization Google URL
2	rest/serviceGG/verify	GET	Verify token and store token for Google
3	rest/serviceGG/getAbout	POST	Response data of user information for Google
4	rest/serviceGG/getDir	POST	Response list file of cloud for Google
5	rest/serviceGG/deleteFile/{id}	POST	Remove file by id for Google
6	rest/serviceDB/GetAuthURL	POST	Response Authorization Dropbox URL
7	rest/serviceDB/verify	GET	Verify token and store token for Dropbox
8	rest/serviceDB/getAbout	POST	Response data of user information for Dropbox
9	rest/serviceDB/getDir	POST	Response list file of cloud for Dropbox
10	rest/serviceDB/deleteFile/{id}	POST	Remove file by id for Dropbox

Framework and Library

List framework and library
- org.scribe: the simple OAuth Java lib
- javax.ws: RestEasy framework
- Gson: Json framework
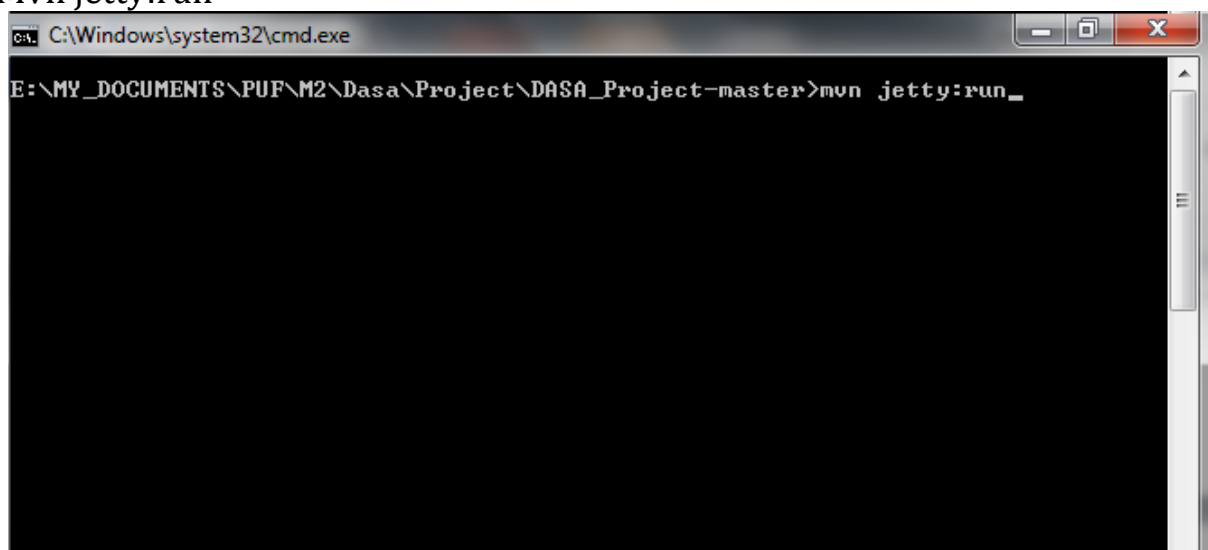- Jetty framework

Manual User

1. Mvn clean install:

```
[INFO] --- maven-compiler-plugin:2.3.2:compile (default-compile) @ DASAProject -
--
[INFO] Compiling 12 source files to E:\MY_DOCUMENTS\PUF\M2\Dasa\Project\DASA_Pro
ject-master\target\classes
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ DA
SAProject ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory E:\MY_DOCUMENTS\PUF\M2\Dasa\Project\D
ASA_Project-master\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:2.3.2:testCompile (default-testCompile) @ DASAP
roject ---
[INFO] No sources to compile
[INFO]
[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ DASAProject ---
[INFO] No tests to run.
[INFO]
[INFO] --- maven-war-plugin:2.2:war (default-war) @ DASAProject ---
[INFO] Packaging webapp
[INFO] Assembling webapp [DASAProject] in [E:\MY_DOCUMENTS\PUF\M2\Dasa\Project\D
ASA_Project-master\target\DASAProject]
[INFO] Processing war project
[INFO] Copying webapp resources [E:\MY_DOCUMENTS\PUF\M2\Dasa\Project\DASA_Projec
t-master\src\main\webapp]
[INFO] Webapp assembled in [8096 msecs]
[INFO] Building war: E:\MY_DOCUMENTS\PUF\M2\Dasa\Project\DASA_Project-master\tar
get\DASAProject.war
[INFO] WEB-INF\web.xml already added, skipping
[INFO]
[INFO] --- maven-install-plugin:2.4:install (default-install) @ DASAProject ---
[INFO] Installing E:\MY_DOCUMENTS\PUF\M2\Dasa\Project\DASA_Project-master\target
\DASAProject.war to C:\Users\phutran\.m2\repository\com\quaywin\DASAProject\1.0-
SNAPSHOT\DASAProject-1.0-SNAPSHOT.war
[INFO] Installing E:\MY_DOCUMENTS\PUF\M2\Dasa\Project\DASA_Project-master\pom.xm
l to C:\Users\phutran\.m2\repository\com\quaywin\DASAProject\1.0-SNAPSHOT\DASAPr
oject-1.0-SNAPSHOT.pom
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time: 37.158 s
[INFO] Finished at: 2015-02-15T20:19:15+07:00
[INFO] Final Memory: 17M/246M
[INFO] ------------------------------------------------------------------------
E:\MY_DOCUMENTS\PUF\M2\Dasa\Project\DASA_Project-master>
```

2. Mvn jetty:run

```
C:\Windows\system32\cmd.exe

E:\MY_DOCUMENTS\PUF\M2\Dasa\Project\DASA_Project-master>mvn jetty:run_
```
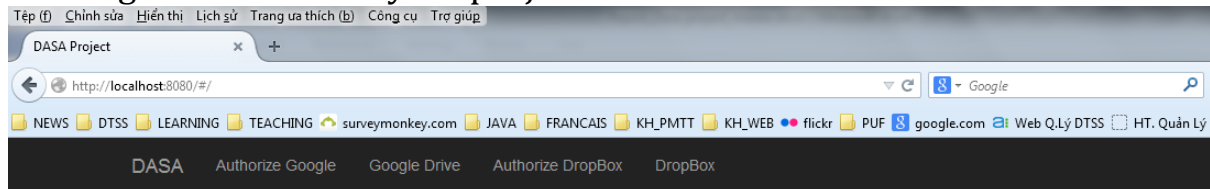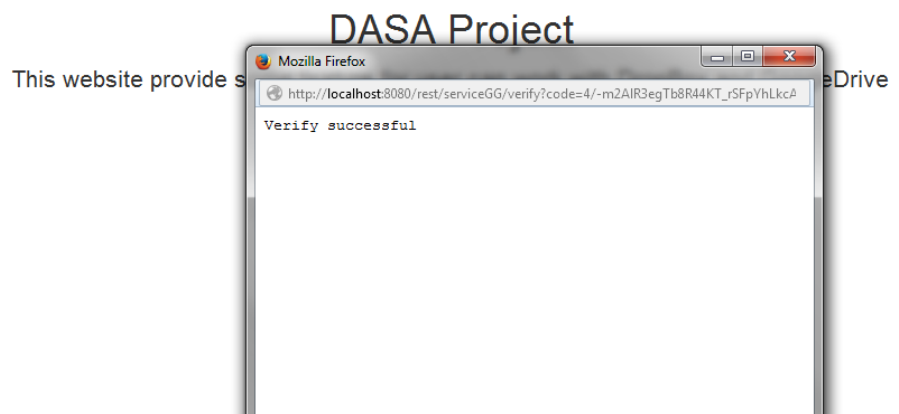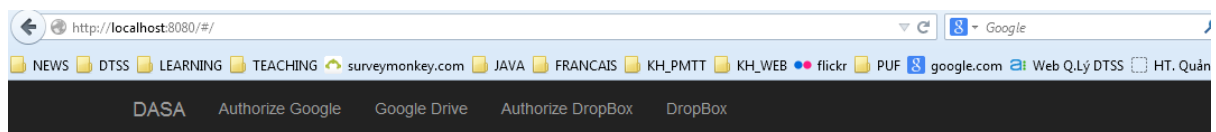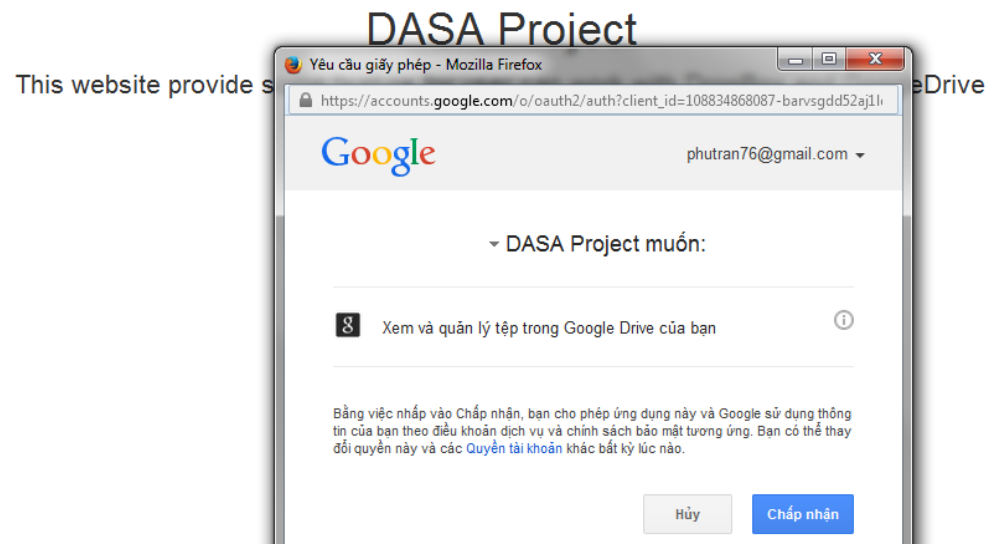
3. We can go to the URL of your project:
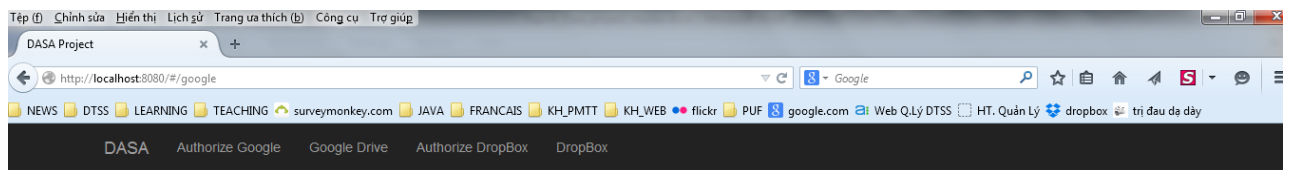

DASA Project

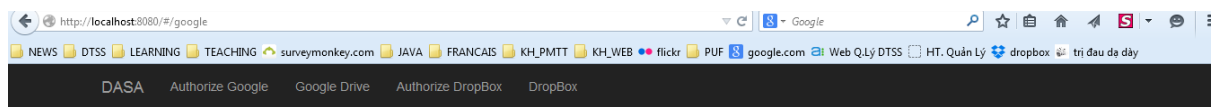This website provide some feature for user can work with DropBox and GoogleDrive

4. Authorize Google:

5. Google Drive:

6. Authorize DropBox:

7. DropBox:

Features implemented and not implemented

- Implement: In this project we was implemented some feature such as:
    - Use RESTEasy framework to provide API for client
    - Authorization cloud storage
    - Load data from cloud storage to owner website
- Not implement : We still not implement some feature such as:
    - Provide some operation for cloud service
    - Show more information of cloud
    - Merge folder for 2 cloud storage Dropbox and Google Drive