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# DASA Project

**Multi-cloud on Website**

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## **Students**

**NGUYEN Minh Thang**

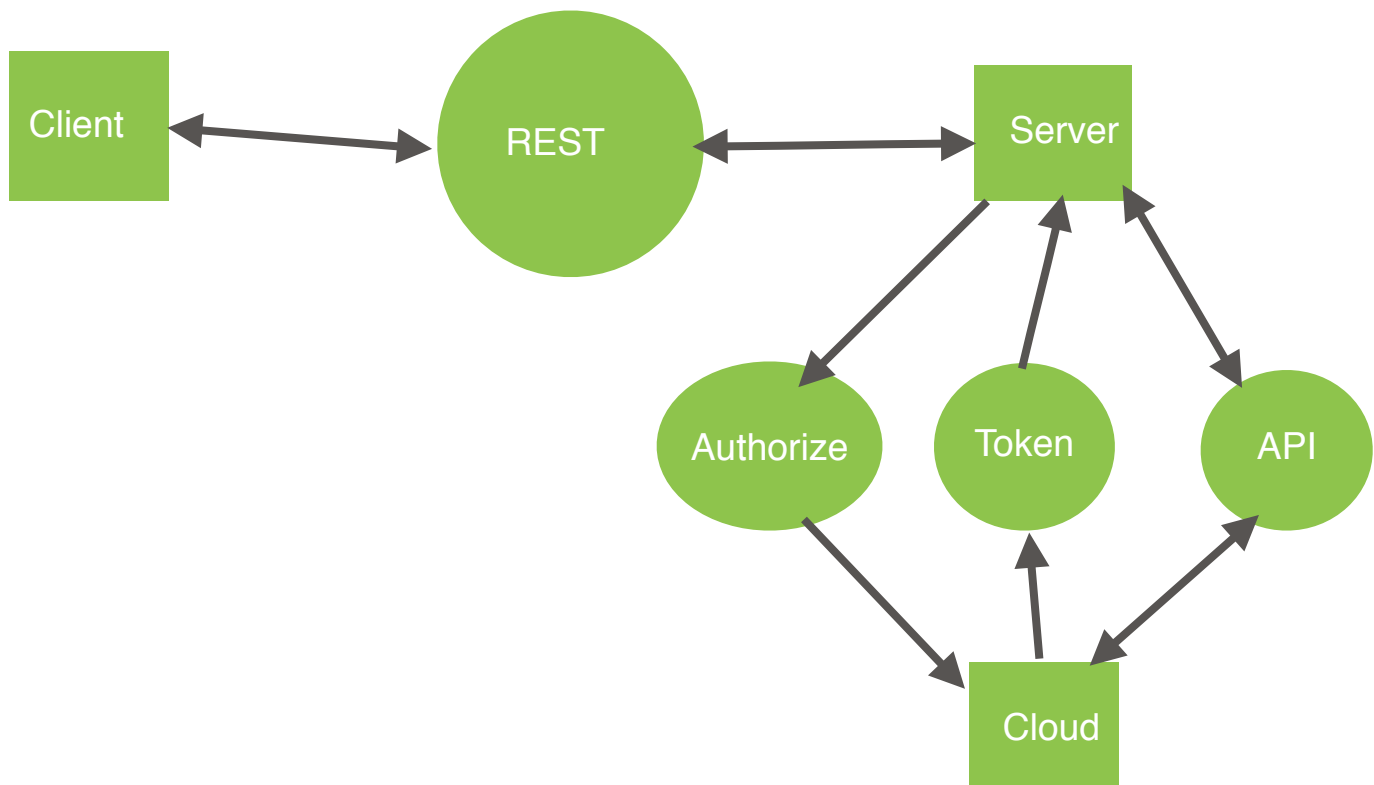
**TRAN Thanh Phu**

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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.

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## 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

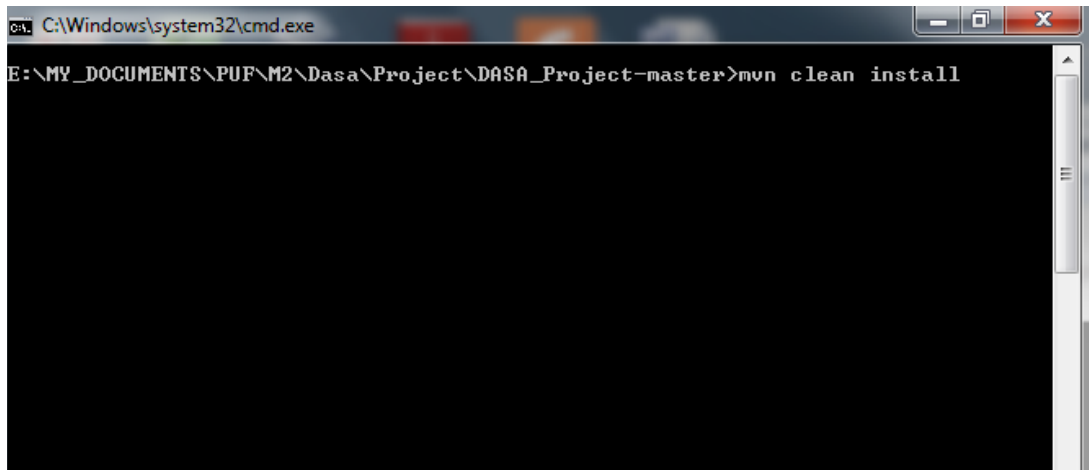
## Framework and Library

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:



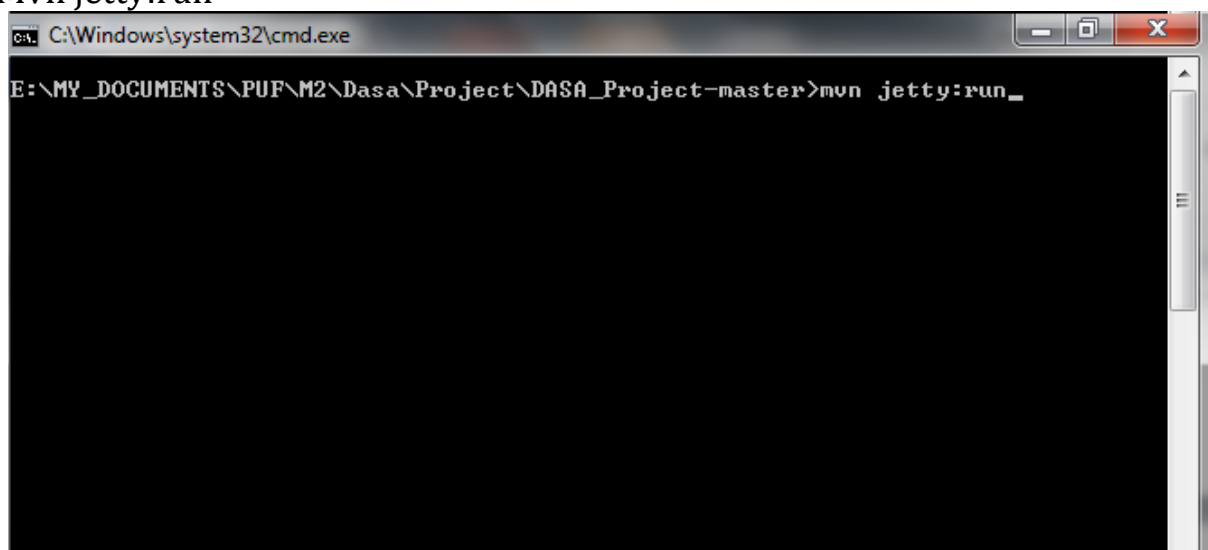
```
C:\Windows\system32\cmd.exe
E:\MY_DOCUMENTS\PUF\M2\Dasa\Project\DASA_Project-master>mvn clean install
```

```

[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.xml
 to C:\Users\phutran\.m2\repository\com\quaywin\DASAProject\1.0-SNAPSHOT\DASAPr
oject-1.0-SNAPSHOT.pom
[INFO]
[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]
[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_

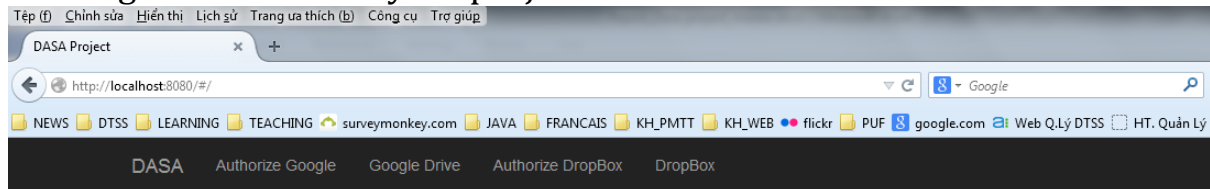
```

```

[INFO] skip non existing resourceDirectory E:\MY_DOCUMENTS\PUF\M2\Dasa\Project\
DASA_Project-master\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:2.3.2:testCompile (default-testCompile) @ DASAPr
project ---
[INFO] No sources to compile
[INFO]
[INFO] <<< jetty-maven-plugin:9.3.0.M1:run (default-cli) < test-compile @ DASAPr
project <<<
[WARNING] Failure to transfer com.fasterxml.jackson.core:jackson-core/maven-meta
data.xml from http://repository.jboss.org/nexus/content/groups
/public/ was cached in the local repository, resolution will not be re
attempted until the update interval of org.jboss.resteasy has elapsed or updates
are forced. Original error: Could not transfer metadata com.fasterxml.jackson.c
ore:jackson-core/maven-metadata.xml from/to org.jboss.resteasy (http://repositor
y.jboss.org/nexus/content/groups
/public/): Illegal character in path at index 48: http://repository.jb
oss.org/nexus/content/groups
/public/com/fasterxml/jackson/core/jackson-core/maven-metadata.xml
[INFO]
[INFO] --- jetty-maven-plugin:9.3.0.M1:run (default-cli) @ DASAPProject ---
[INFO] Configuring Jetty for project: DASAPProject Maven Webapp
[INFO] webAppSourceDirectory not set. Trying src/main/webapp
[INFO] Reload Mechanic: automatic
[INFO] Classes = E:\MY_DOCUMENTS\PUF\M2\Dasa\Project\DASA_Project-master\target\
classes
2015-02-15 20:22:10.601:INFO::main: Logging initialized @13390ms
[INFO] Context path = /
[INFO] Tmp directory = E:\MY_DOCUMENTS\PUF\M2\Dasa\Project\DASA_Project-master\t
arget\tmp
[INFO] Web defaults = org/eclipse/jetty/webapp/webdefault.xml
[INFO] Web overrides = none
[INFO] web.xml file = file:///E:/MY_DOCUMENTS/PUF/M2/Dasa/Project/DASA_Project-m
aster/src/main/webapp/WEB-INF/web.xml
[INFO] Webapp directory = E:\MY_DOCUMENTS\PUF\M2\Dasa\Project\DASA_Project-maste
r\src\main\webapp
2015-02-15 20:22:11.271:INFO:oejs.Server:main: jetty-9.3.0.M1
2015-02-15 20:22:16.106:INFO:oejsh.ContextHandler:main: Started o.e.j.m.p.JettyW
ebAppContext@3dbe5cb8[/,file:///E:/MY_DOCUMENTS/PUF/M2/Dasa/Project/DASA_Project
-master/src/main/webapp/.AVAILABLE]<file:///E:/MY_DOCUMENTS/PUF/M2/Dasa/Project/
DASA_Project-master/src/main/webapp/>
2015-02-15 20:22:16.306:INFO:oejs.ServerConnector:main: Started ServerConnector@
7cc7cba9[HTTP/1.1,[http/1.1]<0.0.0.0:8080>]
2015-02-15 20:22:16.306:INFO:oejs.Server:main: Started @19095ms
[INFO] Started Jetty Server

```

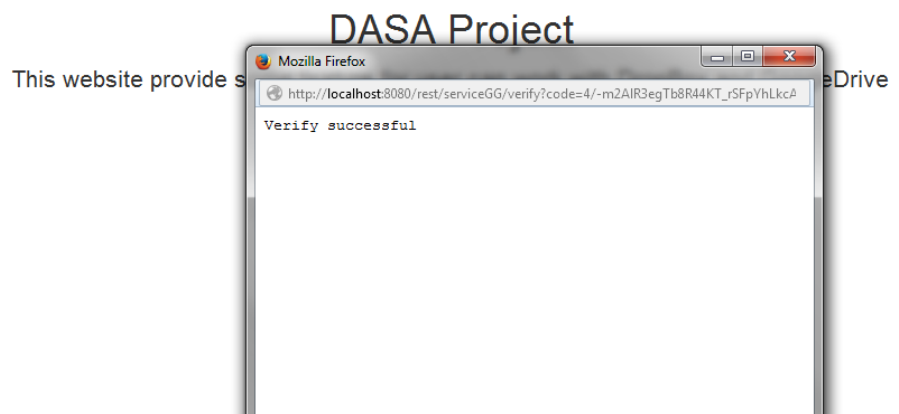
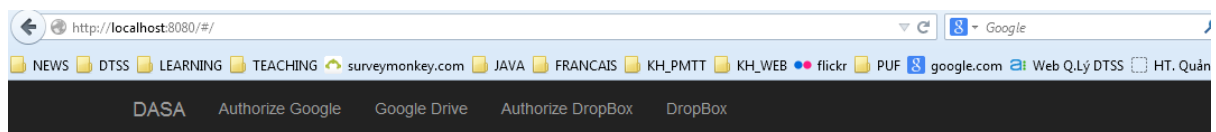
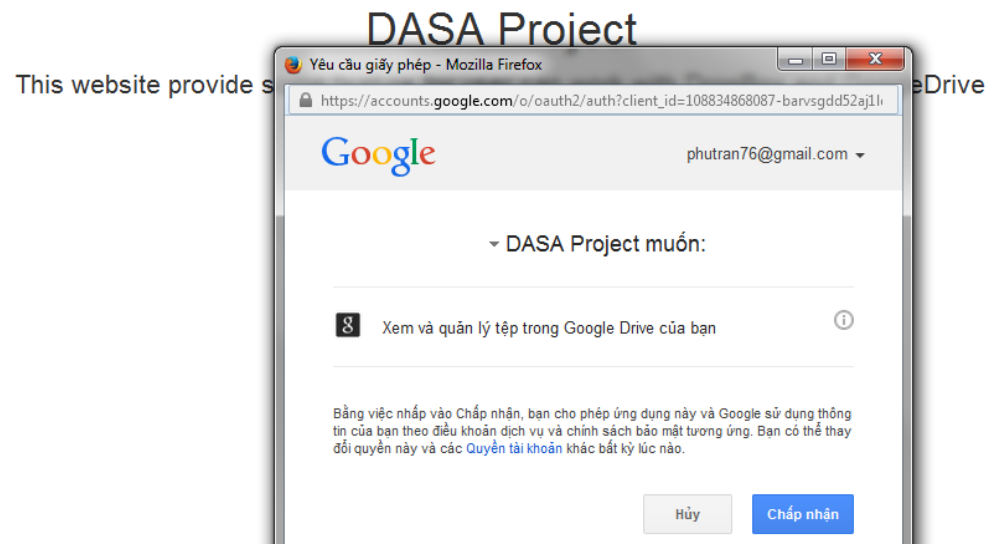
### 3. We can go to the URL of your project:



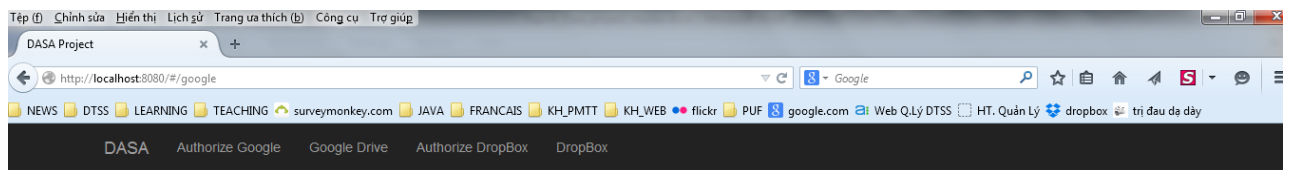
## DASA Project

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

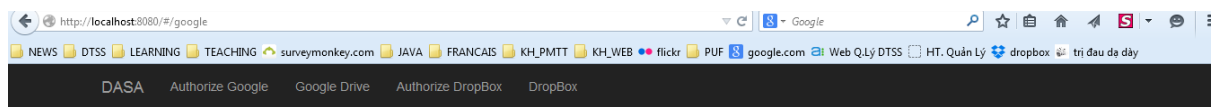
### 4. Authorize Google:



## 5. Google Drive:



140x140	Name	mrtranthanhphu	File Name	Download	Delete
	Email	phutran76@gmail.com	~\$port_Dasa_project_master.docx	Download	Delete
			Report_Dasa_project_master.docx	Download	Delete
			QuanLy_ThuChi_2013.xls	Download	Delete
			Thong_Tin_Khach_Hang_SaigonLab.xlsx	Download	Delete

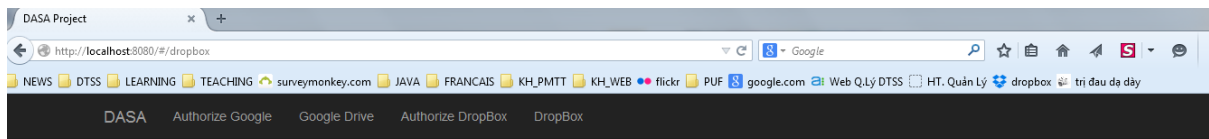


140x140	Name	mrtranthanhphu	<div> <div> <p>Đang mở Report_Dasa_project_master.docx</p> <p>Bạn phải chọn để mở:</p> <p> Report_Dasa_project_master.docx</p> <p>là: Microsoft Word Document (113 KB)</p> <p>từ: https://doc-10-8o-docs.googleusercontent.com</p> <p>Firefox nên làm gì với tập tin này?</p> <p><input type="radio"/> Mở Bằng Microsoft Word (mặc định)</p> <p><input checked="" type="radio"/> Lưu Tập Tin</p> <p><input type="checkbox"/> Tự động xử lý tương tự đối với các tập tin kiểu này kể từ bây giờ trở đi.</p> <p>OK Hủy bỏ</p> </div> </div>	Download	Delete
	Email	phutran76@gmail.com		Download	Delete
				Download	Delete
				Download	Delete
				Download	Delete
				Download	Delete

## 6. Authorize DropBox:

140x140	Name	mrtranthanhphu	<div> <div> <p>API Request Authorization - Dropbox - Mozilla Firefox</p> <p> Phu Tran</p> <p></p> <p>DASA Project would like access to the files and folders in your Dropbox.</p> <p>Cancel Allow</p> </div> </div>	Download	Delete
	Email	phutran76@gmail.com		Download	Delete
				Download	Delete
				Download	Delete
				Download	Delete
				Download	Delete
				Download	Delete
				Download	Delete
				Download	Delete

## 7. DropBox:



## Dropbox

Name	Phu Tran	File Name	Kind
Email	phutran76@gmail.com	CCNA Sercurity	Folder
		Getting Started.pdf	File
		IPv6	Folder

## 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