## CMPE-272 -Enterprise Software Platforms Karaf

<u>Aim:</u> To build a web application and use twitter API to access values using karaf web container

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### Abstract:

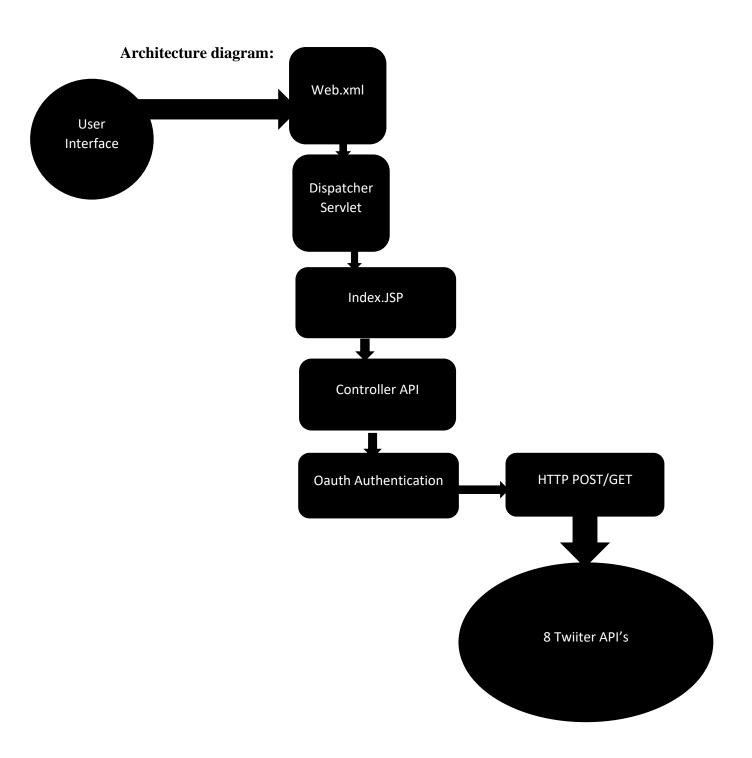
We need to implement 8 Twitter API and deploy it in Karaf web container

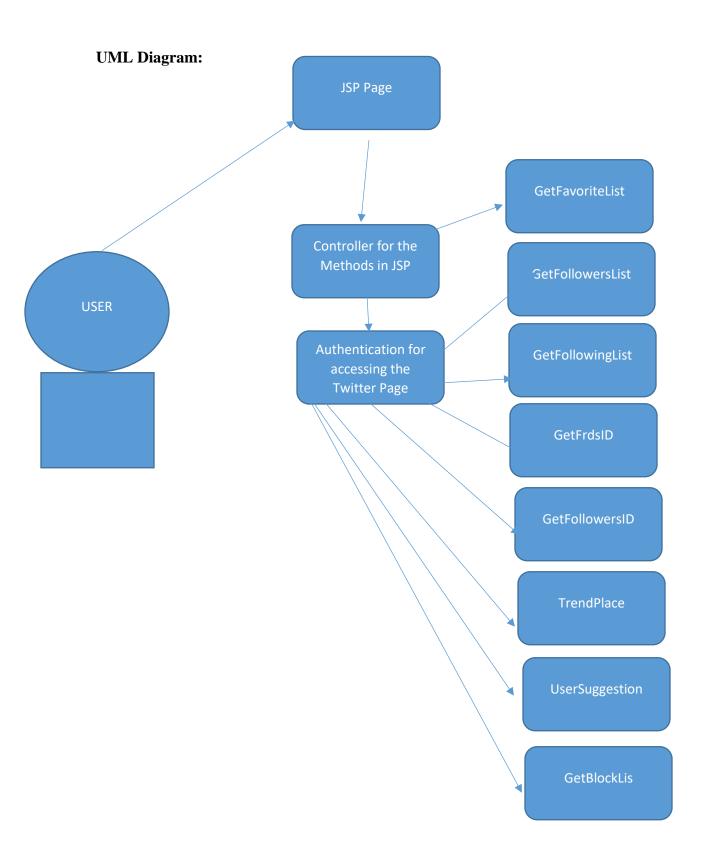
## Technologies used:

- 1. Java 9
- 2. HTML ,Bootstrap
- 3. Ajax
- 4. JQuery
- 5. Web Services-REST
- 6. OAuth
- 7. Karaf Web Container

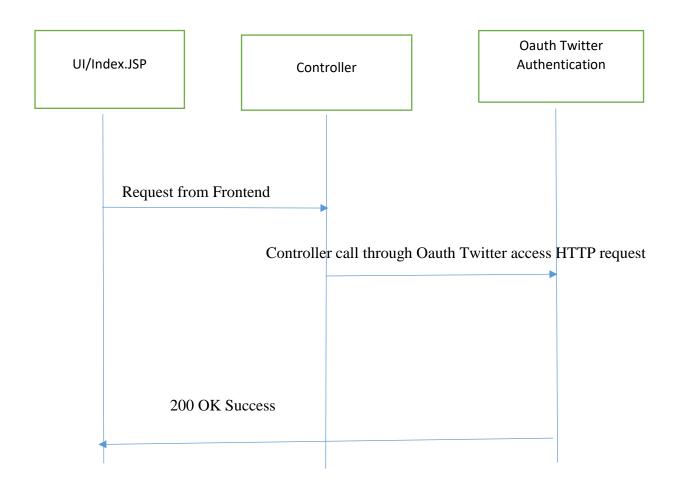
## **Steps followed:**

- 1. Downloaded Karaf and unzip it.
- 2. Created a Maven Spring Web application using java in eclipse.
- 3. Imported all the needed maven dependencies in pom.xml.
- 4. Create an app in twitter and get the access details.
- 5. Write JSP file to get the input values from the user.
- 6. Build the war file.
- 7. Open the Karaf bin folder and go to command prompt run karaf.bat
- 8. Deploy the generated war file in deploy folder in karaf web container.
- 9. Give the command LIST it will list the war deployed in the web container.
- 10. Go to console give localhost:8181/war name.

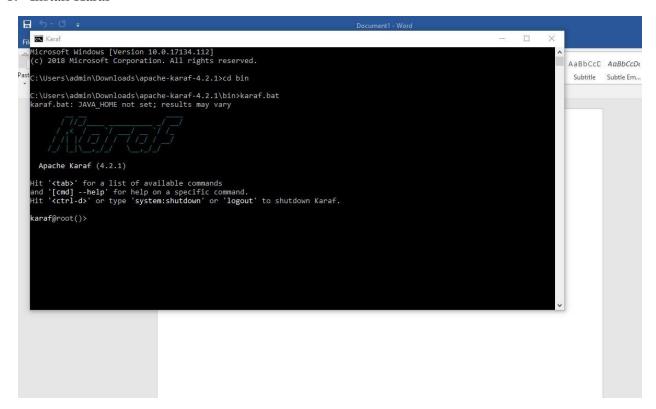




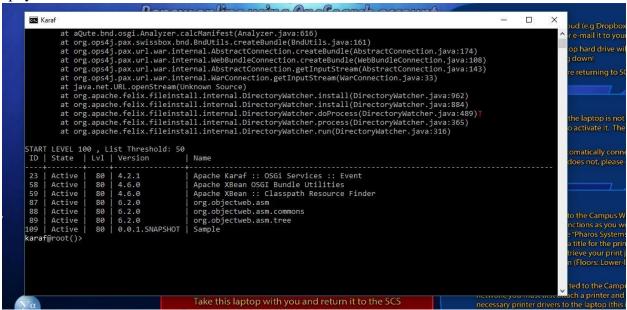
# Sequence Diagram:



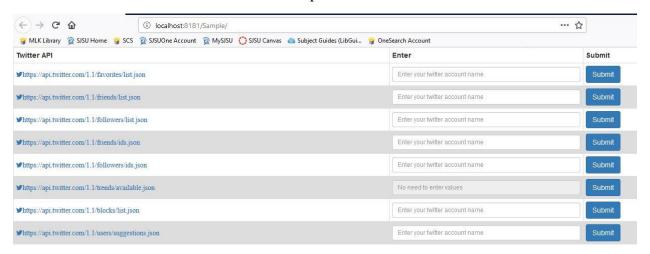
#### 1. Install Karaf



2. Depoyed the war in web container



3. Run the webconsole localhost:8181/Sample



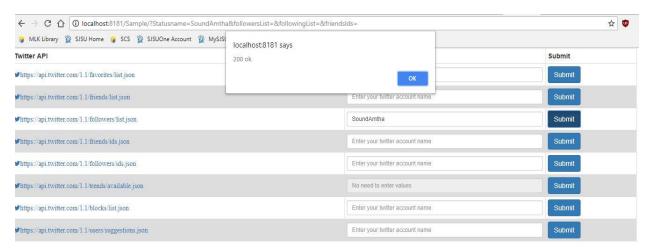
4. 200 Ok for Favorite List

← → C 🗘 🛈 localhost:8181/Sample/			
🍞 MLK Library 👸 SJSU Home 🍞 SCS 🐞 SJSUOne Account 👰 MySJSI	localhost:8181 says		
Twitter API	200 ok		Submit
♥https://api.twitter.com/1.1/favorites/list.json		ОК	Submit
▶https://api.twitter.com/1.1/friends/list.json		Enter your twitter account name	Submit
https://api.twitter.com/1.1/followers/list.json		Enter your twitter account name	Submit
https://api.twitter.com/1.1/friends/ids.json		Enter your twitter account name	Submit
₩https://api.twitter.com/1.1/followers/ids.json		Enter your twitter account name	Submit
₩https://api.twitter.com/1.1/trends/available.json		No need to enter values	Submit
https://api.twitter.com/1.1/blocks/list.json		Enter your twitter account name	Submit
❤https://api.twitter.com/1.1/users/suggestions.json		Enter your twitter account name	Submit

5.200 ok for Friends List



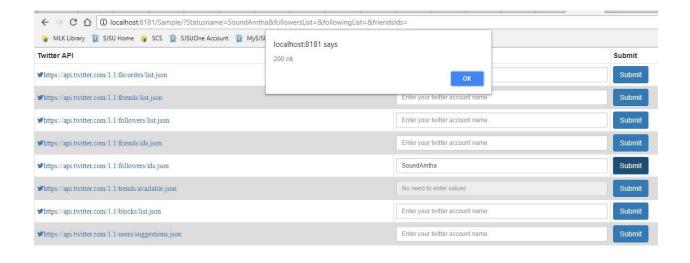
#### 6.200 Ok for Followers List



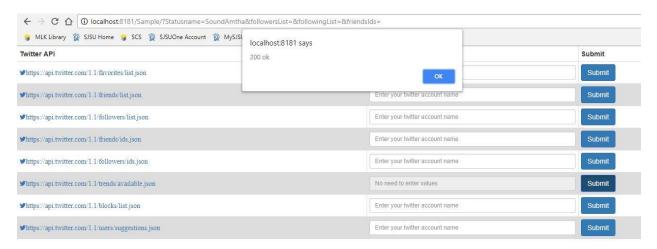
#### 7.200 Ok for friends Ids



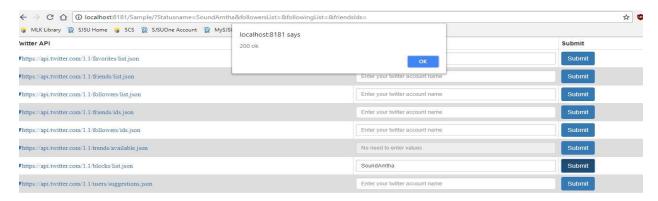
8.200 for followers Id



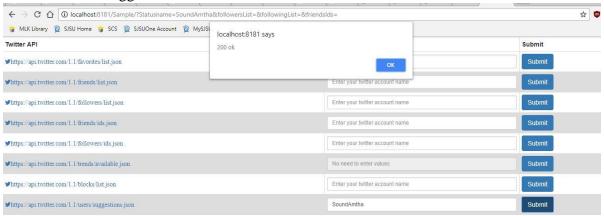
#### 8.200 ok for trends Available



## 9 200 ok for Block List



## 10 200 ok for Users Suggestion



## JUnit Test Cases:

```
Quick Access : 📸 🤌
🔐 🔎 BaseController,java 🔎 TwitterServiceAPI,java 📳 index.jsp 🕡 TestTweetAPI,java 🛭 🗎 🗗 🗗 🗗 🗗 🛭
                                                                                                                                                                                                                                                                                                                                                               1 package com.dexters.Testing;
                                                                                                                                                                                                                                                                        ▲ ■ Finished after 3.703 seconds
                                                                                                                                                                                                                                                                                        Runs: 8/8 Errors: 0 Failures: 0
         3⊕ import java.util.HashMap;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    →<u>|</u> #5
            12 public class TestTweetAPI {
13    TwitterServiceAPI twitterserviceAPI = new TwitterServiceAPI();

▼ 1 Com.dexters.Testing.TestTweetAPI [Runner: JUnit 4] 

Failure Trace

Fail
                                                                                                                                                                                                                                                                                                    testGetfollowingList (1.712 s)
                                                                                                                                                                                                                                                                                                      testGetfollowersList (0.202 s)
                                                                                                                                                                                                                                                                                                     testGetUserSuggestion (0.218 s)
                                  public void testGetfollowersList() {
    HashMapcString, Object> _testvalue = twitterserviceAPI.GetfollowersList("Test");
    Asser* .assertMotMull(_testvalue);
                                                                                                                                                                                                                                                                                                     testGetffollowersslds (0.178 s)
         318
19
                                                                                                                                                                                                                                                                                                     testGetfavoriteList (0.182 s)
                                                                                                                                                                                                                                                                                                    testGetBlockList (0.742 s)
                                                                                                                                                                                                                                                                                                     testGetTrendPlace (0.243 s)
                                  public void testGetfollowingList() {
   List<Stringy _testvalue = twitterserviceAPI.GetfollowingList("Test");
   Assert_assertNotNull(_testvalue);</pre>
            21
22
                                                                                                                                                                                                                                                                                                    testGetfriendslds (0.189 s)
          Q<sub>23</sub>
              24
              25⊖
                                  public void testGetfriendsIds() {
   List<Integer> _testvalue = twitterserviceAPI.GetfriendsIds("Test");
   Assert.assertWotNull(_testvalue);
              26
27
          28
             29
300
         31
32
333
                                 public void testGetffollowerssIds() {
   List<Integer> _testvalue = twitterserviceAPI.GetffollowerssIds("Test");
   Assert.assertNotNull(_testvalue);
              35⊕
                                  public void testGetTrendPlace() {
   List<String> _testvalue = twitterserviceAPI.GetTrendPlace();
   Assert.assertHotHull(_testvalue);
              36
37
         938
              39
              40⊖
                                  public void testGetBlockList() {
              41
```