CS5560- KDM - Lab#3 Assignment

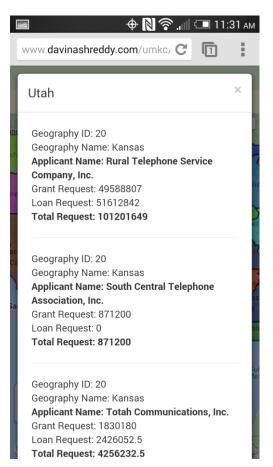
This document consists of following information.

- Make a Mashup application including various services (e.g., Google Map, Google Chart, Google Search, Yahoo, Amazon, Twitter, Facebook) Web Services (e.g., Google Map Services, Weather Services) using either (1) Mobile Web Technology with HMLT5 Local DB (Refer to Tutorial 3).
- 2. **Cloudera/MapReduce:** Download the Cloudera Image, implement the WordCount MapReduce and run it. (a bonus point for implementing a new MapReduce algorithm) The code and guidelines will be available in Tutorials/Tutorial 5.
- 3. **Cloudera/Mahout:** Configure your Cloudera with Mahout. Run Naive Bayes classifier with the input data (a bonus point for using your own data).
- GitHub Account Screenshots(username: davinashreddy)
- ScrumDo Account Screenshots(link: https://www.scrumdo.com/organization/umkc32/dashboard)

1. Mashup Application:

- My application includes Google map service on which States in united states have an overlay with different color and name.
- When you click on a specific state then a service call is made to the following url and the BIP information of the state is retrieved.
 - BIP's goal is to provide financial boost to the nation during the economic crisis
 [1].
 - http://www.broadbandmap.gov/broadbandmap/bip/states/kansas?format=jso
 n Sample Service call, to Kansas statistics.
 - http://www.responsinator.com/?url=http%3A%2F%2Fwww.davinashreddy.com% 2Fumkc%2Fkdm-lab3%2F
 - o http://www.davinashreddy.com/umkc/kdm-lab3/
- Following are some screenshots taken in HTC one device in chrome browser.







2. Cloudera/Mapreduce

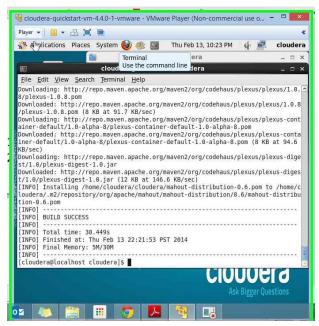
- My MapRecude program runs on DB-Pedia GeoLocation data where the goal is to extract geo-location of specific URL [2].
- Source code is available in GitHub
- Screenshots of my work as follows.



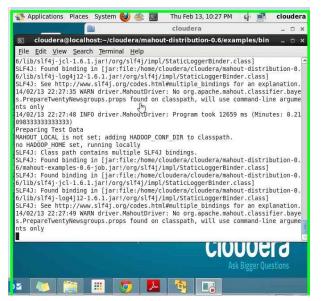
3. Cloudera/Mahout:

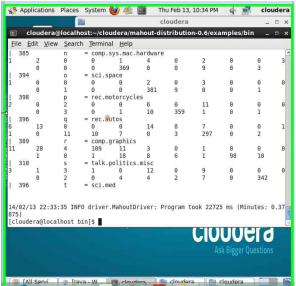
To run mahout in Cloudera CentOS edition, Maven has to be installed. Steps to install Maven follows:

- Download the maven and mahout repos along with .pom file which installs all the dependencies required.
- Using mahout .pom file install mahout using maven by running
 - o mvn -f filename.pom -DskipTests install
- Set the permissions for Mahout and run Naviebayes.
- Below are the screenshots of my work.









References

- 1. http://www.rurdev.usda.gov/utp_bip.html
- 2. Automatic IO Filtering for Optimizing Cloud Analytics Microsoft Technical Report MSR-TR-2012-3 by Christos Gkantsidis at Microsoft Research, Cambridge, UK.