Lab Assignment -4

1.

Question:

Hadoop Map Reduce Algorithm

Map Reduce Algorithm Facebook friends

Description:

Created a Map Function which would take input in format of Person -> Friends list and out put the key value pairs for Reduce Function.

Screenshots:

```
[cloudera@quickstart ~]$ hadoop jar '/home/cloudera/Desktop/FB-Friends-4.0-SNAPSHOT.jar' FBMain fbin fbout
16/02/17 18:03:18 INFO client.RMProxy: Connecting to ResourceManager at /0.0.0.0:8032
16/02/17 18:03:20 WARN mapreduce.JobSubmitter: Hadoop command-line option parsing not performed. Implement the Tool interface and execute your application with ToolRunn
er to remedy this.
16/02/17 18:03:22 INFO input.FileInputFormat: Total input paths to process : 1
16/02/17 18:03:22 INFO mapreduce.JobSubmitter: number of splits:1
16/02/17 18:03:23 INFO mapreduce.JobSubmitter: Submitting tokens for job: job_1455759153571_0003
16/02/17 18:03:24 INFO impl.YarnClientImpl: Submitted application application_1455759153571_0003
16/02/17 18:03:25 INFO mapreduce.Job: The url to track the job: http://quickstart.cloudera:8088/proxy/application_1455759153571_0003/
16/02/17 18:03:25 INFO mapreduce.Job: Running job: job_1455759153571_0003
16/02/17 18:03:51 INFO mapreduce.Job: Job job_1455759153571_0003 running in uber mode : false
16/02/17 18:03:51 INFO mapreduce.Job:  map 0% reduce 0%
16/02/17 18:04:10 INFO mapreduce.Job:  map 100% reduce 0%
16/02/17 18:04:31 INFO mapreduce.Job:  map 100% reduce 100%
16/02/17 18:04:33 INFO mapreduce.Job: Job job_1455759153571_0003 completed successfully
16/02/17 18:04:33 INFO mapreduce.Job: Counters: 49
```

Command to execute the JAR File.

```
[cloudera@quickstart ~]$ hadoop fs -ls fbout
Found 2 items
-rw-r--r--   1 cloudera cloudera          0 2016-02-17 18:04 fbout/_SUCCESS
-rw-r--r--   1 cloudera cloudera         66 2016-02-17 18:04 fbout/part-r-00000
[cloudera@quickstart ~]$ hadoop fs -cat fbout/part-r-00000
AB	CD
AC	BD
AD	BC
BC	ADE
BD	ACE
BE	CD
CD	ABE
CE	BD
DE	BC
```

Output of the reduce function.

2.

Question:

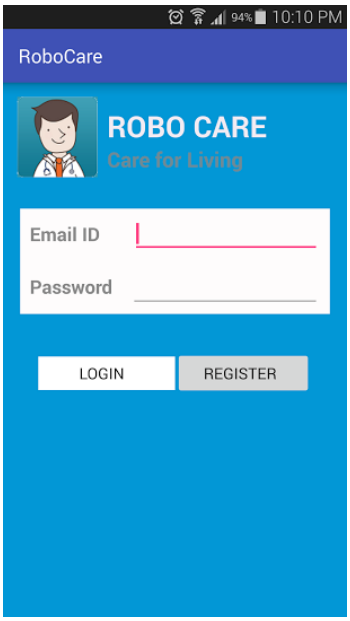
RoboMe and Watch App

Implement a smartwatch/smartphone application using existing speech services/image services (e.g., IBM Alchemyapi, Face++) related to your project.

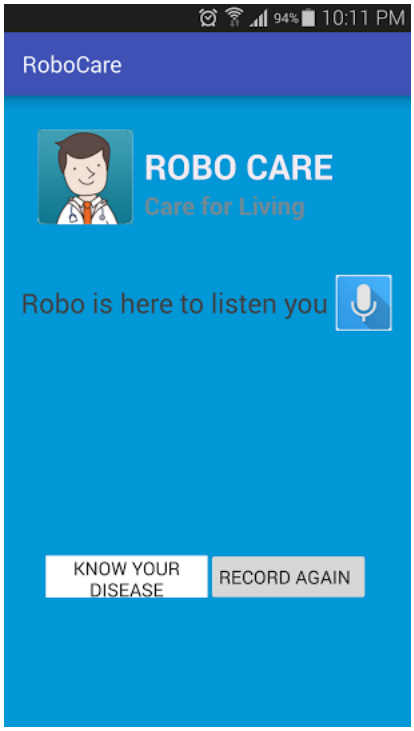
Description:

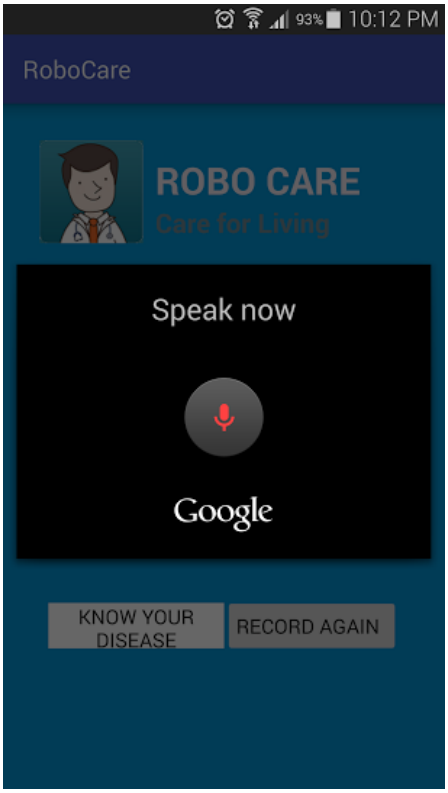
Used the Google Speech to text Services to capture the symptoms told by the user.

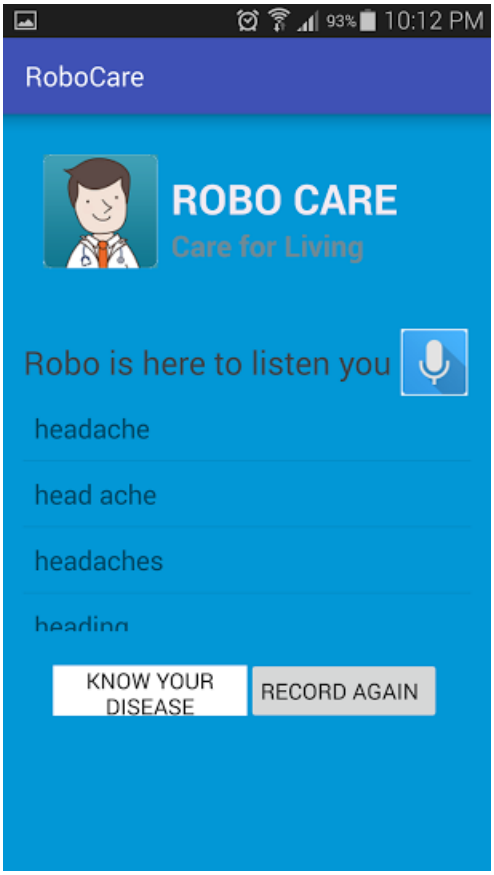
Screen Shots:



Login Form


94% 10:11 PM
RoboCare
ROBO CARE
Care for Living
Robo is here to listen you
KNOW YOUR DISEASE
RECORD AGAIN


93% 10:12 PM
RoboCare
ROBO CARE
Care for Living
Speak now
Google
KNOW YOUR DISEASE
RECORD AGAIN


93% 10:12 PM
RoboCare
ROBO CARE
Care for Living
Robo is here to listen you
headache
head ache
headaches
KNOW YOUR DISEASE
RECORD AGAIN

Results