

**Boğaziçi University**  
**Software Engineering**

**SWE 573 – Software Development Practice**

**Spring 2017**

**Term Project**

**User Manual**

**SENTWORT**

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## **1.0 GENERAL INFORMATION**

### **1.1 System Overview**

Sentwort is a web application which enables users to display reports based on data from Twitter. Users add hashtags to be listened and the system retrieves tweets containing those hashtags. After that, the system asynchronously analyze the tweets sentimentally. Users can display some statistics and reports based on that data. Users can see how many active/passive hashtags, how many analyzed/nonanalyzed messages and how many positive/negative/neutral messages. Users can see those numbers for every hashtag specifically also. Users can display sentiment report which includes account, tweet itself, share date, sentiment information about the tweets which retrieved by the system by using Twitter Search API.

**Sentwort can not and does not promise to retrieve all the tweets containing corresponding hashtags. It is limited with the limits of Twitter Search API.**

### **1.2 Points of Contact**

In case of any problem or for help you can contact with Umur Türkay via mail address: [umur.turkay@gmail.com](mailto:umur.turkay@gmail.com)

## **2.0 SYSTEM SUMMARY**

### **2.1 System Configuration**

Sentwort is a web application working on any major internet browsers. Latest versions of the browsers are recommended to be used. The application needs internet connection to work.

### **2.3 User Access Levels**

Everyone can use the application by registering to the system.

## 3.0 HOW TO USE

### 3.1 Login/Register

Anybody who would like to use Sentwort should go to the link below to use it:

<http://sample-env.bx6zpisnmx.us-east-2.elasticbeanstalk.com/login>

If a user has not been registered before, he/she has to register by clicking “Register” and enter necessary information required on the screen.

**SENTWORT**

## Sign up

Username

u

username

Password

p

eg. X8df!90EO

Select your secret question

Select your secret question

▼

q

Enter the answer of your secret question

a

Sign up

Already a member ?

Go and log in

If registered, the user can login by entering the username and password in the corresponding places on login screen.

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## SENTWORT

### Log in

Username

Password

☐ Remember me

Login

Forgot password?

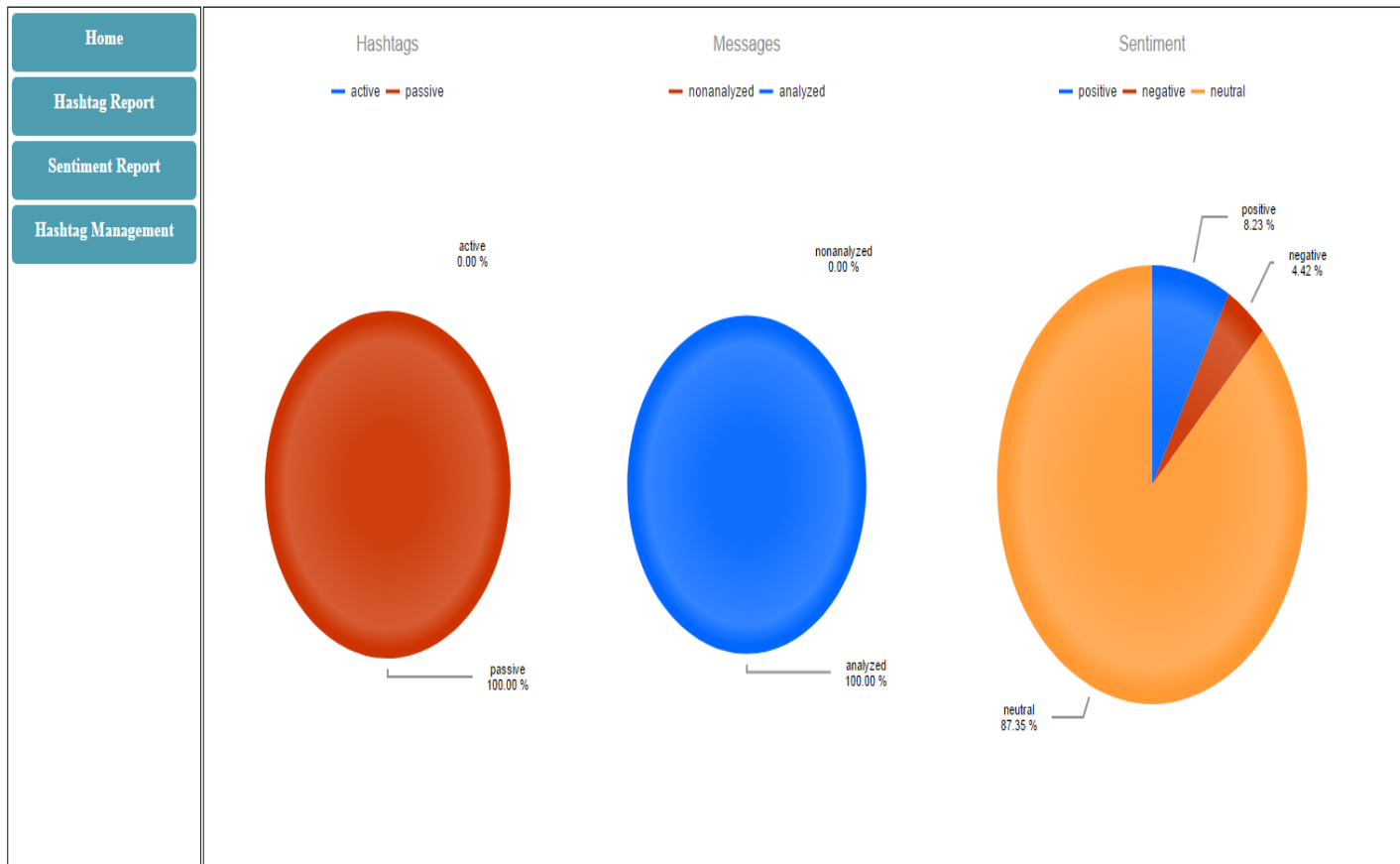
 or 

Register

## 3.2 Statistics

After logging in, the user can display some statistics with pie charts on **Home** page. These statistics include:

- Number and percentage of active and passive hashtags defined by the user.
- Number and percentage of nonanalyzed and analyzed (sentimentally) messages.
- Number and percentage of positive, negative and neutral messages.



## 3.2 Hashtag Report

If the user clicks on Hashtag Report, a report on a table is displayed. This report includes hashtag, number of total, nonanalyzed, positive, negative and neutral messages retrieved containing this hashtag.

Home	Drag a column header and drop it here to group by that column					
Hashtag Report	Hashtag	Total	Nonanalyzed	Positive	Neutral	Negative
Sentiment Report	rihanna	105	0	16	89	0
Hashtag Management	trump	393	0	25	346	22
<div> <div> <div></div> <div>1</div> <div>1</div> <div></div> <div></div> </div> <div>10 items per page</div> <div>1 - 2 of 2 items</div> </div>						

## 3.2 Sentiment Report

If the user clicks on **Sentiment Report**, another report on a table is displayed. This report includes account that shares the tweet, tweet itself, hashtag that the tweets contains which is added by the user to the system, sentiment of the tweet and share date of the tweet.

User can filter out the results by entering different values on the filters. After clicking Search button, system displays the report according to the filters: Tweets which are shared between *start date and end date*, containing hashtag(s) given in the *Hashtag* filter and which are in the sentiment group of corresponding sentiment specified with *sentiment* filter.

<a href="#">Home</a> <a href="#">Hashtag Report</a> <a href="#">Sentiment Report</a> <a href="#">Hashtag Management</a>	START DATE	5/16/2017 12:12 PM	END DATE	5/23/2017 12:12 PM	<input type="button" value="Search"/>
	HASHTAG	Select hashtags	SENTIMENT	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	
	Drag a column header and drop it here to group by that column				
	Account	Tweet	Hashtag	Sentiment	Share Date
thejasminebrand	#DeborahCox #LoniLove #CedricTheEntertainer #Rihanna #CaitlynJenner #kuwtk <a href="https://t.co/J5b2MvyZmT">https://t.co/J5b2MvyZmT</a> <a href="https://t.co/9ypjfx3DjM">https://t.co/9ypjfx3DjM</a>	rihanna	Neutral	May 22 2017 21:42:10	
Broadwaywesson	RT @badgalniri: FOLLOW ME FOR A NEW MUSIC VIDEO - #MX #rihanna #selenagomez #likeforfollow #follow4follow #like4follower #like4follow #lik...	rihanna	Positive	May 22 2017 21:42:09	
draxx45	anal sex free galleries #rihanna and chris brown nude pic <a href="https://t.co/T1j0CBdtMW">https://t.co/T1j0CBdtMW</a>	rihanna	Neutral	May 22 2017 21:39:38	
Rihanna_Watch	#CD #Musics GMF REGGAE PARTY MIX. MAVODO. LADY SAW. #Rihanna <a href="https://t.co/EMOnKnVoEN">https://t.co/EMOnKnVoEN</a> #Music #Deals <a href="https://t.co/8Bd3PnyjHA">https://t.co/8Bd3PnyjHA</a> #Rihanna a offert l'épisode le plus	rihanna	Neutral	May 22 2017 21:37:15	

### 3.3 Hashtag Management

If the user clicks on **Hashtag Management** from the left menu, the screen where he/she can add hashtags to be listened is displayed. User enters an hashtag on Hashtag textbox and click Add button. The hashtag is added to the table. User can make the system start/stop listening the hashtag by clicking Start Listening/Stop Listening correspondingly. The system starts retrieving tweets containing the hashtag by sending requests to Twitter Search API for every minute.

Home

Hashtag Report

Sentiment Report

Hashtag Management

Hashtag 

Add

Drag a column header and drop it here to group by that column

Name	Active	Create Date	Start Date	Stop Date
trump	Passive	May 21 2017 17:59:32	May 21 2017 17:59:37	May 21 2017 18:03:07
rihanna	Passive	May 22 2017 21:36:12	May 22 2017 21:36:15	May 22 2017 21:47:56

1

10 items per page

1 - 2 of 2 items

Start Listening

Stop Listening