Boğaziçi University

Software Engineering

SWE 573 – Software Development Practice

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Term Project

Software Requirements Document

SENTWORT

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Functional Requirements

1. User shall login to/logout from the system.

    1.1 User shall login to the system by using their username and password.

    1.2 User shall be able to logout from the system.

2. User shall register to the system to use it.

    2.1. User shall enter a unique username.

    2.2. User shall enter their password, first name, last name.

3. System shall listen the Twitter API to find the tweets containing the hashtags defined by the user.

    3.1 User shall be able to add a hashtag to be searched by the system.

    3.2 System shall listen the Twitter API for the hashtag(s) until the user stops it.

4. System shall be able to display the sentiments of the tweets according to filters entered by the user.

    4.1 User shall be able to see the results as a multi page table including the tweet itself, account name which shares the tweet, hashtags in the tweet, links in the tweet, sentiment of the tweet, the date when the tweet is shared and create date when the tweet is recorded in the system.

    4.1.1 System shall display the sentiment as positive, negative or neutral.

    4.1.2 Dates shall be in the format like "30.05.2016 13:25:06".

    4.2 User shall be able to filter the results according to the date when the tweet is shared, sentiment and hashtags.

Nonfunctional Requirements

1. The system shall use Twitter API to fetch data.
2. The system shall be developed with Java.
3. The system shall be a web client application.
4. The system shall use Sentiment140 API for sentiment analysis.