

Boğaziçi University
Software Engineering

SWE 573 – Software Development Practice

Spring 2017

Term Project

Software Release Document

SENTWORT

Prepared By:

Umur Türkay

umur.turkay@gmail.com

1. Introduction

1.1. Purpose

This document provides comprehensive overview of the system requirements, system features, known issues about the release, and deployment instructions.

1.2. Scope

This software project is to develop 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.

2. System Requirements

A web application written in an object oriented programming language Java.

The application should work at Linux Operating System.

This application should use Tomcat server (version 8) and MySQL database.

Java version is 8.

3. Technologies

- Spring-core 4.3.7.RELEASE
- Spring-web 4.3.7.RELEASE
- Spring-webmvc 4.3.7.RELEASE
- Hibernate Core 5.2.9.Final
- validation-api 1.1.0.Final
- hibernate-validator 5.1.3.Final
- MySQL Server 5.7

- Maven 3
- JDK 1.8
- Tomcat 8.0
- Eclipse Neon
- TestNG 6.11
- Mockito 2.0.2
- Twitter4j – 4.0
- Quartz-jobs - ^[1]_{SEP}2.3.0
- Kendo UI for jsp

4. Deployment Instructions

Environment:

1. Linux operating system
2. Tomcat 8 var Java 8
3. MySQL
4. Get your Amazon Server:

AWS Elastic Beanstalk Tomcat platform which includes java 8 with Tomcat 8 is chosen and Amazon RDS is chosen for MySQL.

Create war file:

Change application.properties file:

```
jdbc.driverClassName = com.mysql.jdbc.Driver
jdbc.url = jdbc:mysql://your-amazon-mysql-server-connection-url/database-name
jdbc.username = username
jdbc.password = password
hibernate.dialect = org.hibernate.dialect.MySQLDialect
hibernate.show_sql = false
hibernate.format_sql = true
```

- Connect to your mysql server on RDS and run the sql script (firstDeploy.sql) for once
- Upload the war file and deploy the application on Elastic Beanstalk instance