Guardian Angel Privacy Bot
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Introduction

Guardian Angel is meant to **collect** and **analyze** a user's tweets.

Social media platforms do not have systems that **monitor** user posts for **sentiment** (attitude).
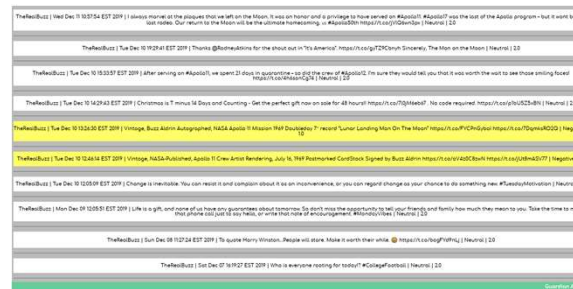
This is meant to be a **social media checkup** that aids users in understanding how they might be perceived on the Internet.

Tools

Spring Framework
  • Java framework for building web applications.

Thymeleaf
  • Java template engine for serving HTML content.

Auth0
  • Third party authorization service that handles social media login.

Twitter4J
  • An unofficial Java library for connecting to the Twitter API.

Stanford CoreNLP
  • Java library that provides natural language analysis from text input.

Analysis Framework

Stanford Core - Natural Language Software
Multi-language support.
Sentiment Analysis:
  • Given a string return a **sentiment score** ranging from zero to four.
  • Each string is given multiple **percentage ratings** on very negative to very positive.
  • Strings are also given a **overall rating** ranging from very negative to very positive.

Viewing Tweets

Provides users a list of their collected and analyzed tweets.
Gives users their date of tweet, content, **sentiment type**, and **sentiment score**.
Displays each tweet with a **highlight** based on scores:
  • Red is very negative.
  • Yellow is negative.
  • White is neutral.
  • Green is positive.
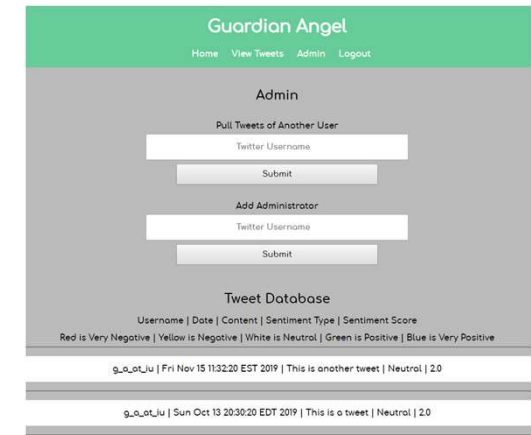 • Blue is very positive.

Administration

Pull tweets from any public user by username.

Add additional administrators.

View all the tweets in the tweet database with their sentiment analysis.

Improvements and Future Plans

Checkup system that gives a final score based on tweet data.

Add additional social media platforms.

Display additional data per tweet.

Query option to pull any mentions or key words.

Direct message analysis.

More sorting options (sort by most negative).

Acknowledgements