**Use Cases**

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**ID:** UC\_01

**Title:** API Connection

**Description:** Connecting to Twitter’s API to send tweet objects and specific data like favorites and retweets to our database

**Primary Actor:** The API call / Twitter’s API

**Precondition:** Connecting to Twitter’s API

**Postcondition:** Getting a Tweet Object

**Minimal Guarantees:** Get a Tweet Object and send to database

**Success Guarantees:** Be able to see a full tweet object generated from the API

**Trigger:** Calling the API

**Main Success Scenario:** Application calls the API to obtain a tweet object from desired account and creates that data as a JSON object or CSV

**Extensions:**

* How many times can the API be called
* Which account to generate data from

**ID: UC\_02**

**Title:** Sending necessary data to the database

**Description:** Take data from Twitter’s API and put it into the database

**Primary Actor:** Database

**Precondition:** Successfully generating data from the API connection that can be transferred to the database.

**Postcondition:** A database that can then send data to the dashboard shown to the user

**Minimal Guarantees:** A filled database that can be used to generate scores via simple analysis

**Success Guarantees:** The database can eventually handle all of this data and continuously be updated through multiple iterations of the application running.

**Trigger:** Successful API call

**Main Success Scenario:** After

**Extensions:**

* Unable to parse words out separately
* Errors with getting objects into the database

**ID:** UC\_03

**Title:** Functional Analysis

**Description:** Simple mathematically analysis of the data

**Primary Actor:** The function is applied to the data

**Precondition:** Successful build of the database

**Postcondition:** Successful application of the function to the data

**Minimal Guarantees:** Function can be applied to each word from a tweet object

**Success Guarantees:** Functional analysis is more robust and is able to produce a more comprehensive score based on other factors than just what comes in

**Trigger:** Successful build of the database

**Main Success Scenario:** Application of the function to the data

**Extensions:**

* Data handling coming into the database (mismatched types)
* Making sure all data is in accurate ranges

**ID:** UC\_04

**Title:** Analytics Dashboard

**Description:** A dashboard that shows you the relevant data that an end user would want to be able to access from different twitter accounts.

**Primary Actor:** User interaction

**Precondition:** User should be able to connect to the site and see the dashboard that represents the data collected.

**Postcondition:** Successful connection to site allows for seeing the data in a streamlined form so they can see how they may be performing on twitter or see how news publications and articles perform.

**Minimal Guarantees:** See basic statistics in different formats like word maps and graph charts.

**Success Guarantees:** Be able to integrate different types of charts so it has customizable options

**Trigger:** Any user that successfully gets on the site.

**Main Success Scenario:** User connects to main site that shows final analysis of deployed application

**Extensions:**

* Site connection status needs to be maintained
* How will the site be maintained in terms of data
* How will account information be handled (secure login and info handling)