Project Milestone 1, Team:

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I. Description

Our team will develop a website that has a map of the United States, and is colored according to a sentiment analysis of tweets from each state. There will be a gradient of color displayed to the user, with language analysis packages that enable our team to have an interactive way to explore moods across the country. We will be using the public Twitter Streaming API, the Tweepy python library, JavaScript, Python, and other languages and libraries to build our product.

II. Vision Statement

To have an interactive map of the United States that allows a user to explore near real-time moods of Twitter users across the country.

III. Motivation

There are not many interactive maps available that show Twitter sentiment analysis. We aim to improve the tools available to researchers and the public to explore how Twitter users are feeling.

IV. Risks

Few of us have experience with building websites, both in the front end and back end. In addition, our team members have different language preferences, so some of us will have to compromise on what we use to code the website and Twitter integration.

V. Risk Mitigation Plan

To overcome not having experience building websites, we will be using online tutorials from Stack Exchange, YouTube, and Lynda.com. Some team members will have to learn and become comfortable with a different language than they're used to in order to accommodate the needs of the project.

VI. Version Control

We will be using GitHub for version control.

VII. Development Method

We will develop using the agile/scrum method.

VIII. Collaboration Tool

We will use GroupMe for communication, as well as detailed GitHub commit messages.

IX. Proposed Architecture

For the front end, we will be using HTML5 and Javascript, with Google Maps integrations. For the backend, we will be using SQL, Python, and other database software.

X. Conclusion