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A key component of MyTwitter is the retrieval of tweets from the official Twitter API to display to the user in accordance with their preset preferences. The initial display of their timeline will be an identical mirror of the true timeline. After adjusting their preferences, the queries to the database holding tweets from their timeline will be adjusted to accommodate the user’s desires. All of this hinges upon the application’s ability to retrieve the user’s timeline and parse the tweets into atomic pieces which can then be stored into a database to be used later. This is what we will prototype to show the core functionality of our project.

In order to validate our design in this prototype, we expect to be able to request and store 20 tweets at a time, so the user can browse the tweets, before calling the refresh function which would populate the next 20 rows in the database, keeping the initial 20 intact. As a user, I would want the first request to be successful within 3 seconds, and each refresh to take a maximum of 2 seconds. As a product owner, this should be done locally to conserve costs since this should not be a large amount of data, thus making the functionality scalable as well. As a future software engineer, I would want this all to be done in the most common languages to enable maintainability, such as SQL, Java, C, or Python. Below are the following that are planned to be done as a part of the prototype:

* SQL language support to send tweets to database
* Relational Database to hold tweets and their metadata
* Twitter Developer Project Portal to experiment with their API calls