W205 Project Proposal: 2016 U.S. Political Sentiments

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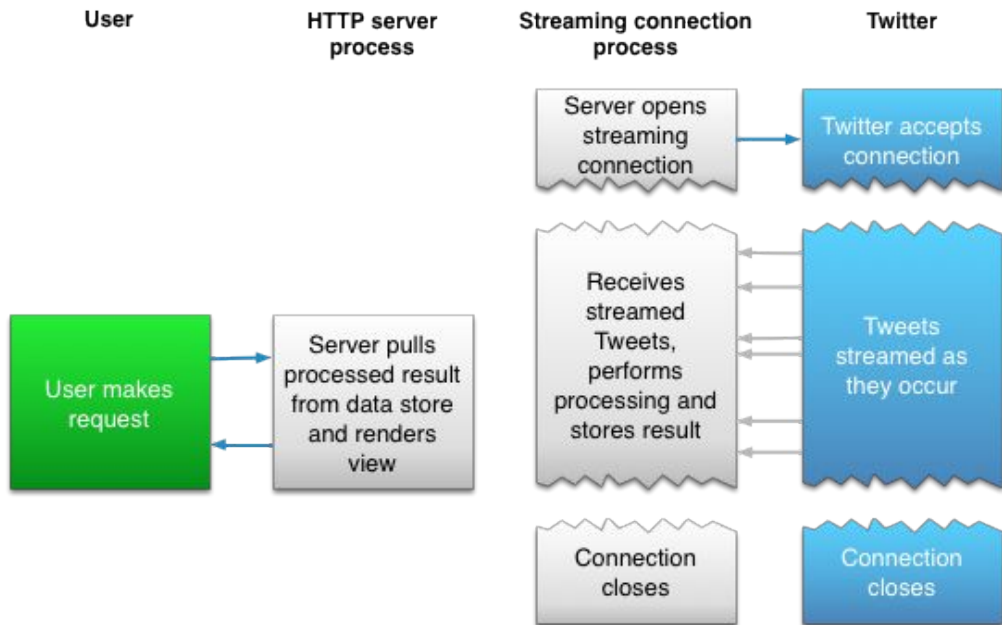# Setting up the Research Question

- Main Topic: Political sentiments of US during 2016 presidential election

- Specific interests:
    - Average positive approval of democratic/republican candidates
    - Change in sentiments as a result of key events
        - News story
        - Debate
        - Polls
- Twitter API to measure sentiments of US population
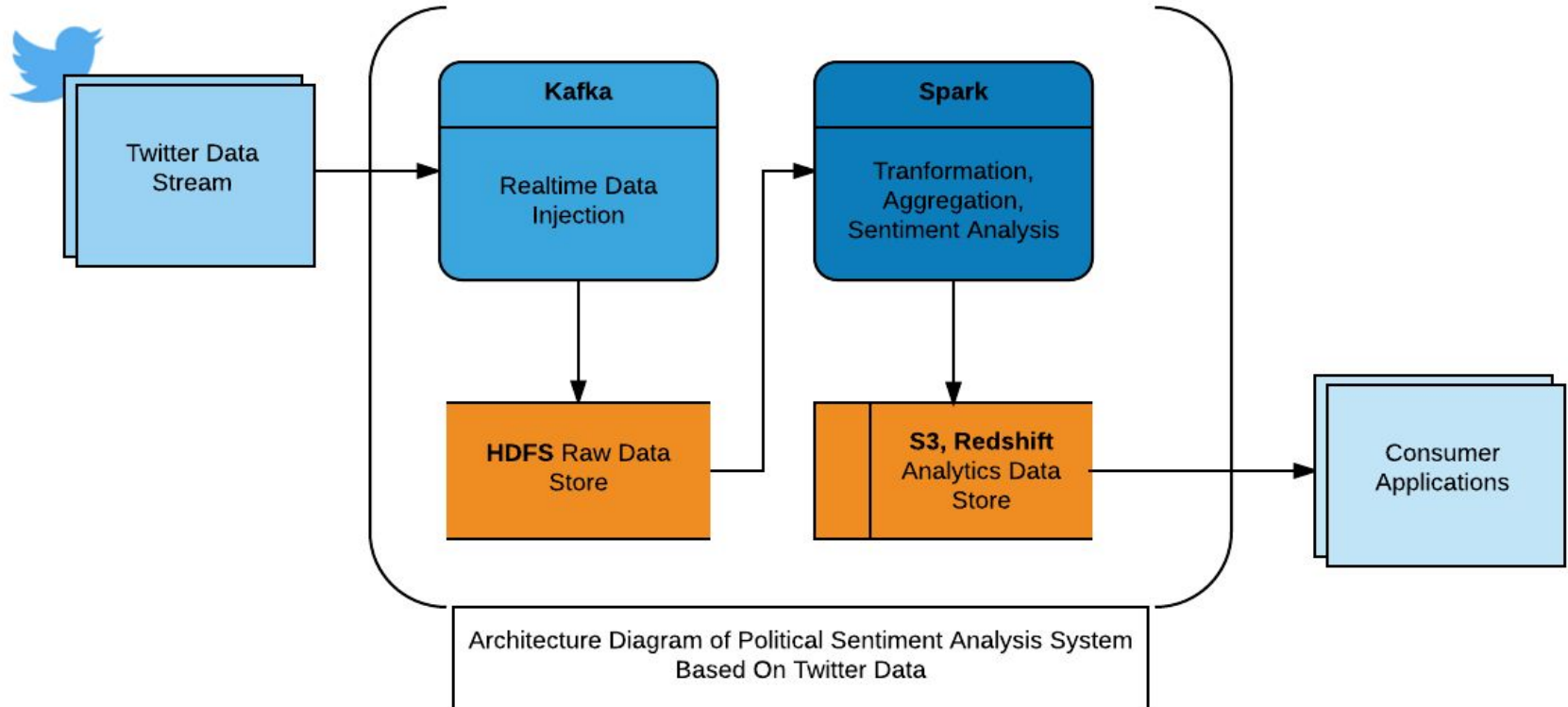   - Parsing tweets for keywords

Twitter API

Types of data:

- Tweets
  - Text
  - URL/Media (if in tweet)
  - Time/Location
  - User ID
  - # of re-tweet
- Users
  - # of followers
  - # of tweets

How we get the data:

Architectural Diagram

Architecture Diagram of Political Sentiment Analysis System Based On Twitter Data

Design Considerations

1. Technical Challenges (volume and velocity)
    a. Twitter API request rate limit
    b. URLS/Media in tweets gives potential for variety of data

2. Organizational Challenges

Other Issues

1. Data Biases

2. How to tell the story based on the analysis