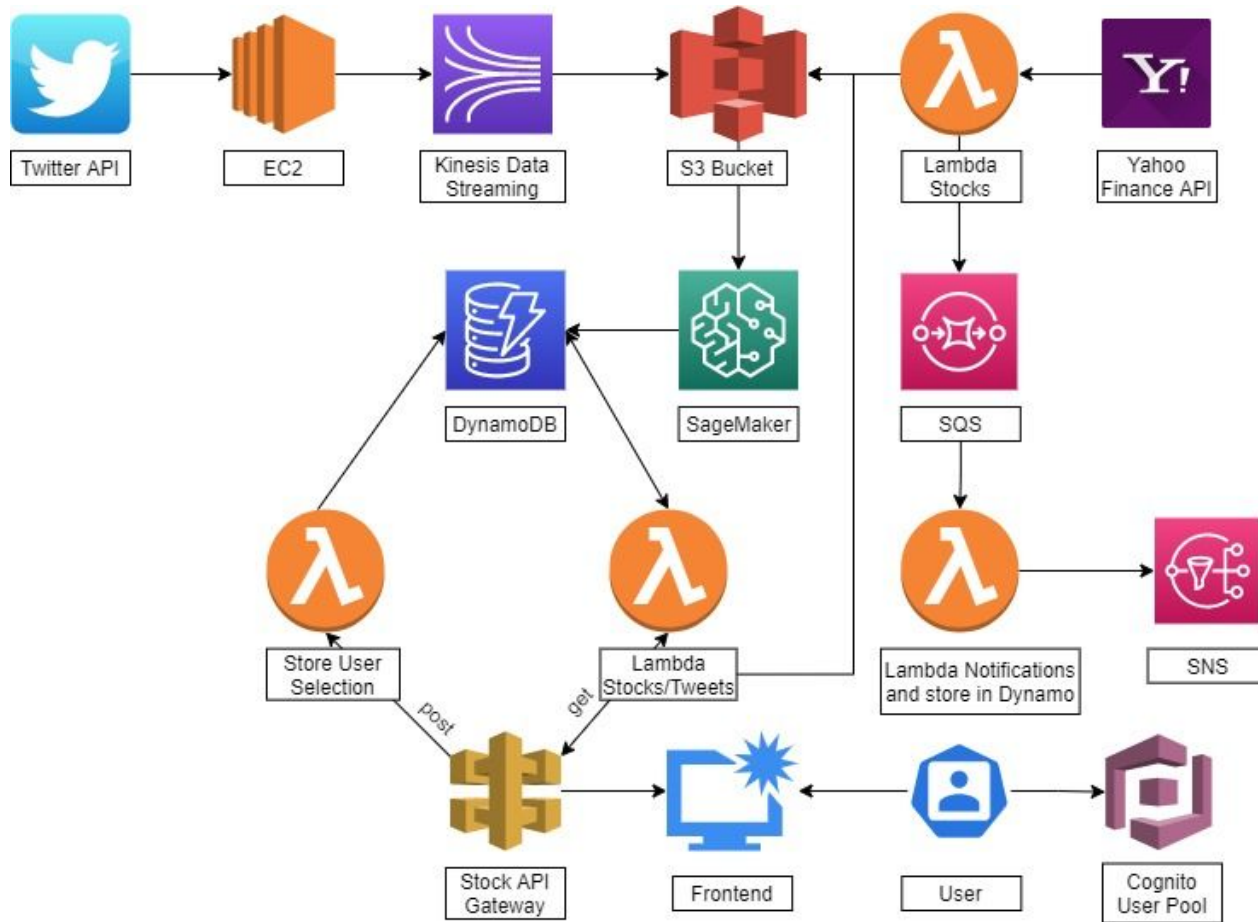# StockBuzz

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Problem Definition/Goal

- The objective of our project is to build a web interface to provide stock related information based on the buzz in social media.
- We aim to analyze the impact of social media posts like twitter on stock market and provide the user with real time text updates in case of significant fluctuation in prices
- We are providing the top social media news as inshorts on our frontend to keep the user updated about the happenings in the virtual world
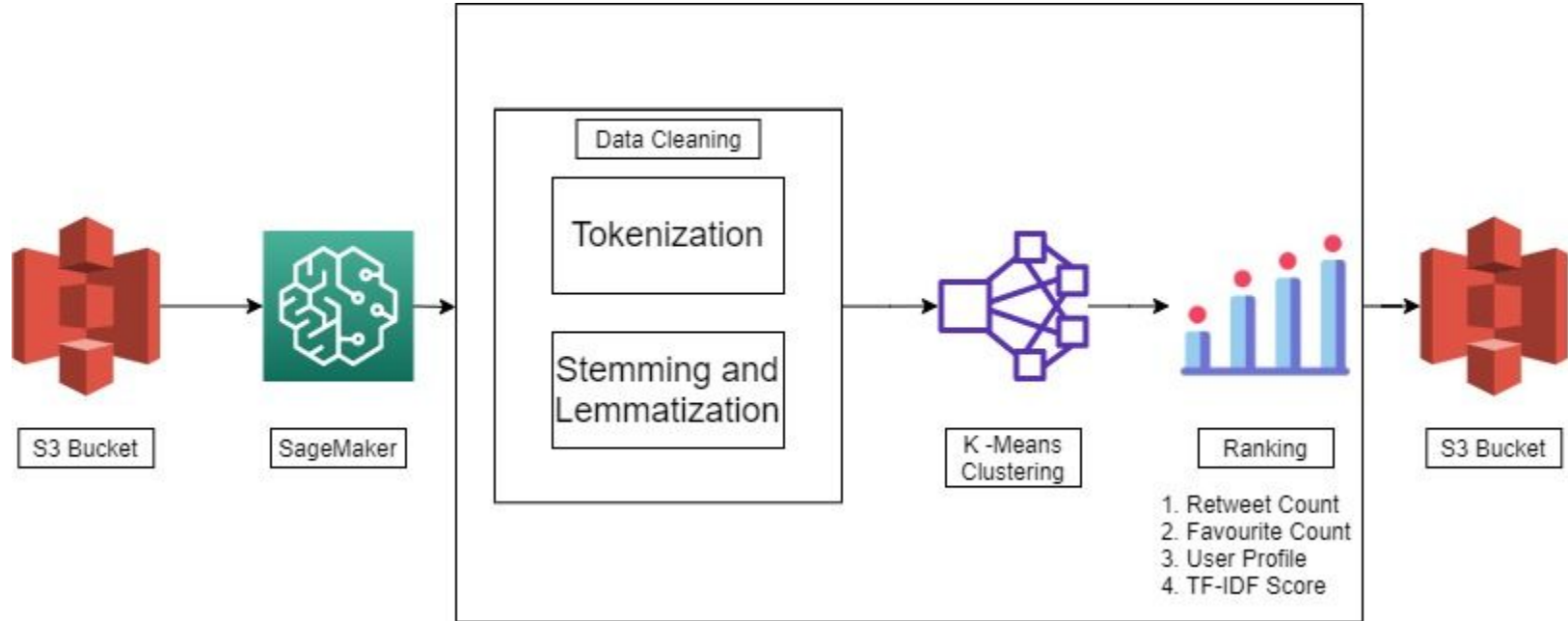
Architecture

Demo Link

https://stockbuzz.auth.us-east-1.amazoncognito.com/login?client_id=16pn74hl7gjn9tj2ljdqn688gu&response_type=code&scope=aws.cognito.signin.user.admin+email+openid+phone+profile&redirect_uri=https://stockbuzz-frontend.s3.amazonaws.com/stocks-s3-ss/index.html

SageMaker Workflow

S3 Bucket → SageMaker → Data Cleaning (Tokenization, Stemming and Lemmatization) → K-Means Clustering → Ranking → S3 Bucket

Ranking:
1. Retweet Count
2. Favourite Count
3. User Profile
4. TF-IDF Score

Key Results

Key Results