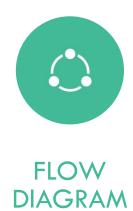
PARENTAL OVERSIGHT FOR SPOTIFY APP

CS 410 Text Information Systems Sam Parmar, Vijay Mishra, Pragya Mishra Fall 2019

OUTLINE









DEMO

BACKGROUND

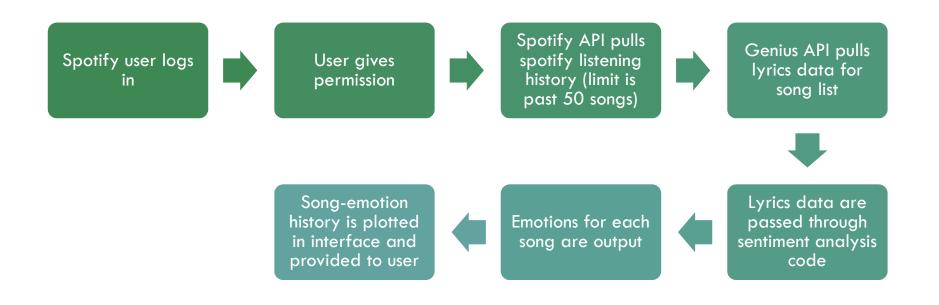
- Spotify is an audio streaming platform created by the Spotify Technology S.A. company originally out of Sweden
- As Spotify has gained popularity, more and more children are using the platform to listen to music.
- Currently, Spotify does not currently have parental control for family accounts.
 - The feature is being developed by the folks at Spotify for parents to control many family accounts. There is an explicit content filter, however accounts must individually have the explicit content filter enabled or disabled.
- •By allowing parents to track listening history and explore listening trends over time, parents can be alerted to sudden changes in listening choices that may indicate a mood change. Such a mood change in the child may be due to external circumstances such as bullying or association with bad company.

FUNCTION

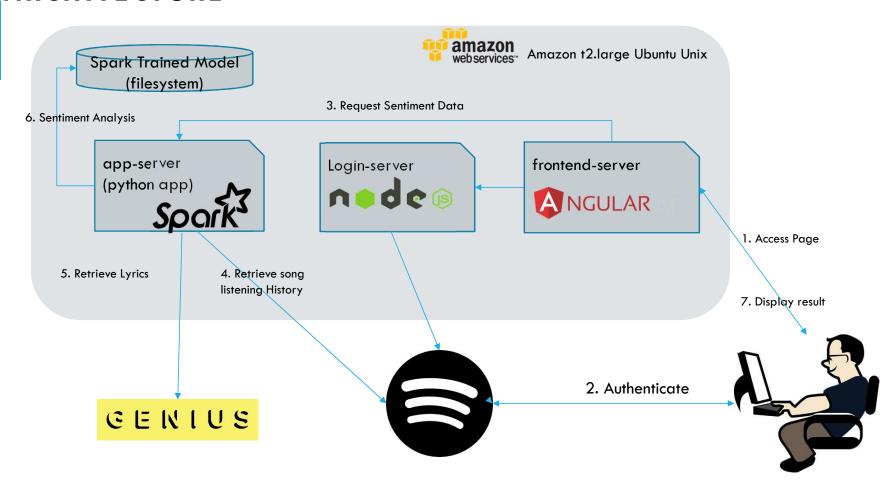
The project provides tool for parental oversight on Spotify.

Parents with access to their kids Spotify accounts will be able to analyze trends in listening history and detect sudden changes.

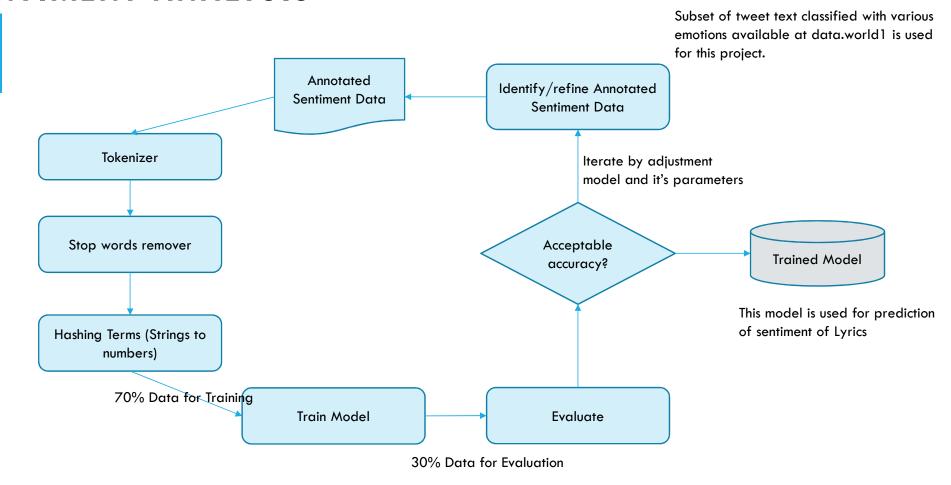
FLOW DIAGRAM



ARCHITECTURE

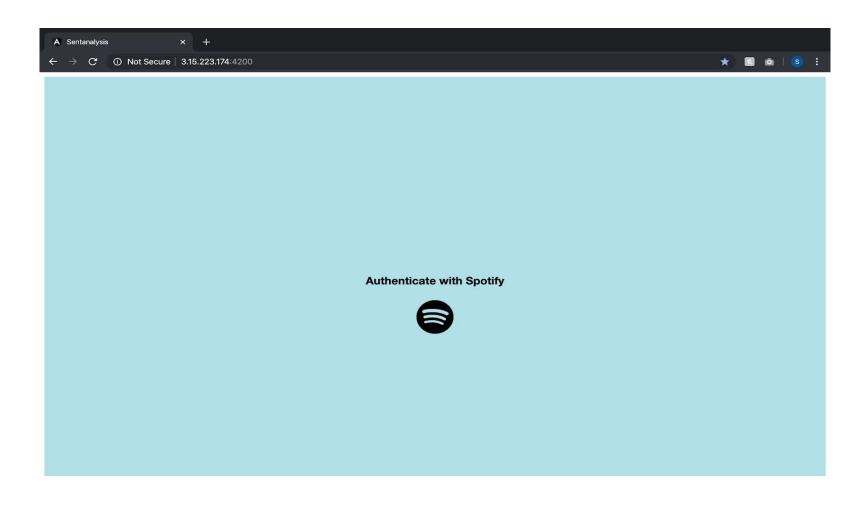


SENTIMENT ANALYSIS

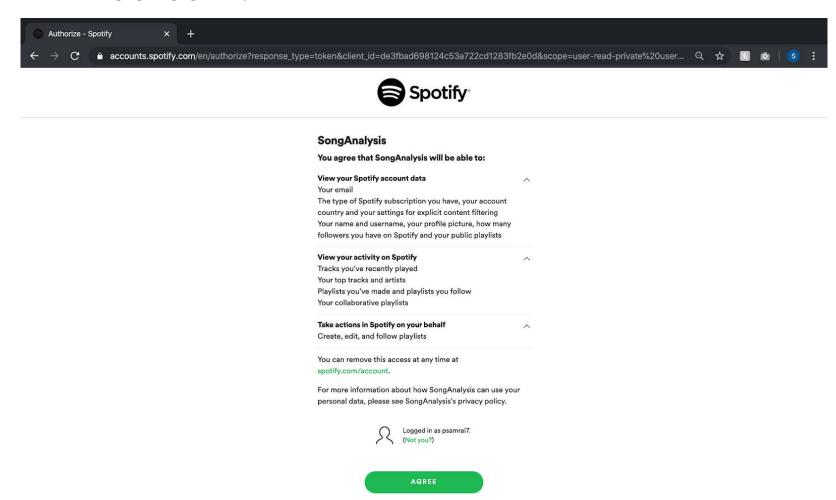


DEMO

LOGIN PAGE — DIRECTING TO SPOTIFY

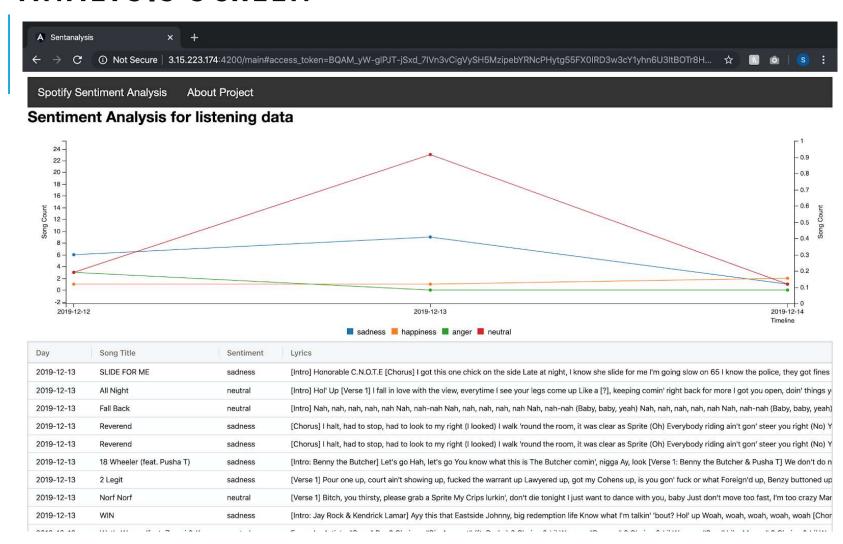


PROVIDE ACCESS TO APP



CANCEL

ANALYSIS SCREEN



FUTURE DIRECTION

- •Spotify only allows last 50 songs to be retrieved. Persistence in this app to store historical information would provide better historical insights. We did not have enough time to implement this.
- •Model can be improved further by training it against all the data. Because of limited compute power, we couldn't use the full dataset as machine was running out of memory.
- •For Sentiment "anger", very limited dataset was available and that can be improved as well.
- •More views can be generated to provide varying insights into listening history for the user. Incorporating Spotify's own audio features can also help improve this solution.

THANKS