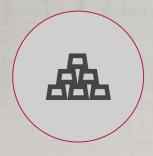


ACCIO SONGS MUSIC SEARCH

CS410 - TEXT INFORMATION SYSTEMS - COURSE PROJECT
TEAM POTTERHEADS - KUSHAGRA SONI & VIRGINIA ATIEH
UNIVERSITY OF ILLINOIS – URBANA CHAMPAIGN



CONTENTS



BACKGROUND



OVERVIEW



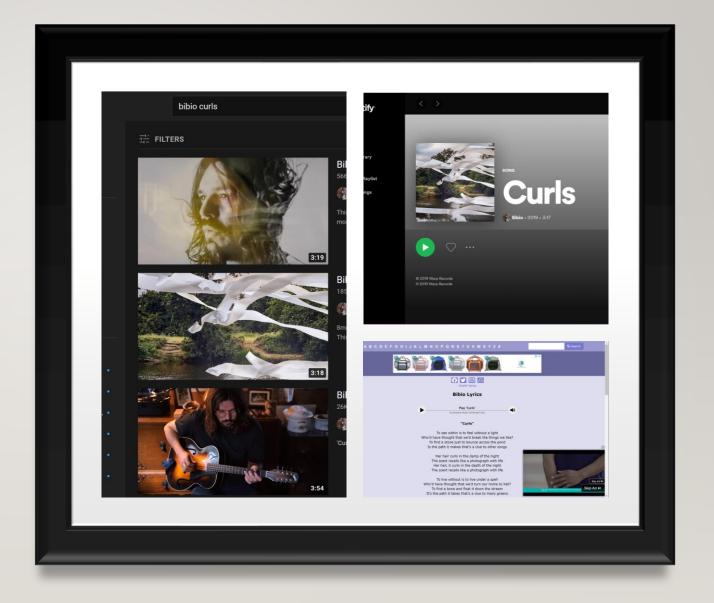
IMPLEMENTATION



DEMONSTRATION

BACKGROUND

- Searching for a song, artist, or album?
- Filtering through the noise
- A simple UI solution for song searching
- Mining data to achieve actionable knowledge

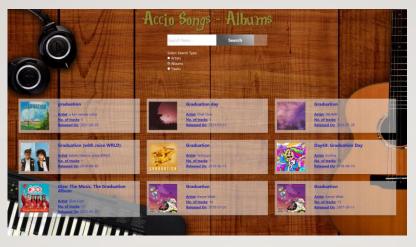


OVERVIEW

- Accio Songs:
 Search Engine Tool for The Musically Inclined
- Powered by Elastic Enterprise
 Search App Search
- Use APIs to mine text data
- Search bar & results

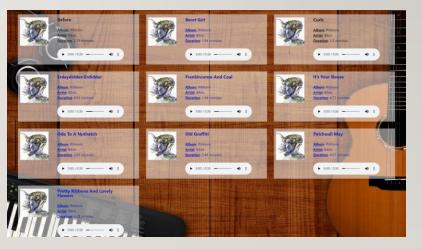


IMPLEMENTATION – RESULTS





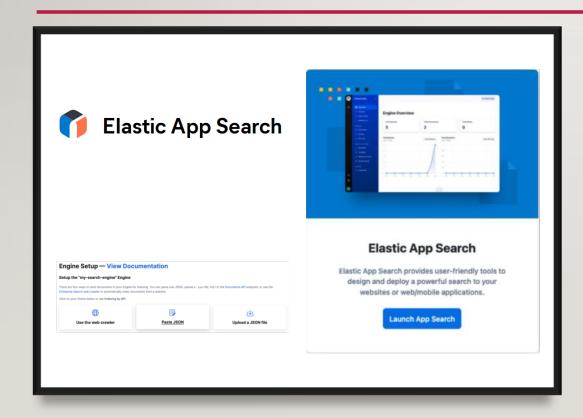




IMPLEMENTATION – API CLIENTS

Feature	API	Python API Clients
Track	https://developer.spotify.com/documentation/web-api/	<u>spotipy</u>
Album	https://developer.spotify.com/documentation/web-api/	<u>spotipy</u>
Album Art Cover	https://developer.spotify.com/documentation/web-api/	<u>spotipy</u>
Artist Name	https://developer.spotify.com/documentation/web-api/	<u>spotipy</u>
Audio	https://developer.spotify.com/documentation/web-api/	<u>spotipy</u>
Lyrics	https://docs.genius.com/	<u>lyricsgenius</u>
Video	https://developers.google.com/youtube/v3/	<u>googleapiclient</u>
Search	cloud.elastic.co	enterprise-search-python

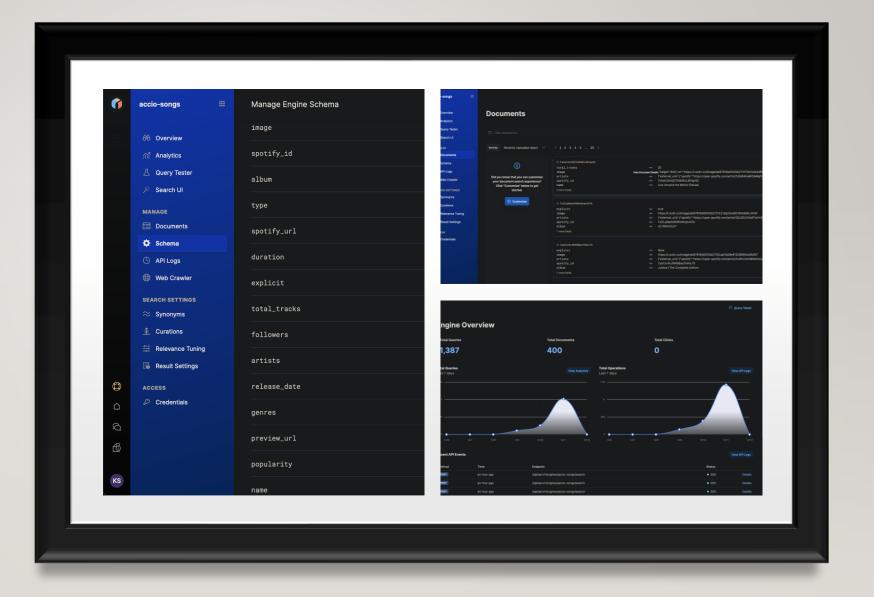
IMPLEMENTATION – ELASTIC APP SEARCH



- Data Indexing using webcrawler or API clients
- Relevance models through Elasticsearch
- Dashboard providing user behavior analytics
- More info at Elastic.co

IMPLEMENTATION

– ELASTIC APP
SEARCH CONT.





ACCIO SONGS - DEMO