



musicl - API Merger

LAPD D1 - Group C_14



Project Proposal

musicl is a platform that offers information on **Music** by combining data from different sources. It is capable of gathering and displaying information on 3 different entities:

- **Albums**
- **Artists**
- **Tracks**



Project Proposal

musicl is divided into 2 components:

- **API**
 - Receives and outputs JSON
 - Provides query and lookup interfaces
 - Gathers and merges data from different sources
- **UI**
 - Solely consumes data from the API
 - Displays the data in a user-friendly way
 - Provides easy access to the different API interfaces



Data Sources

- **Spotify API** — provides a query interface, album, artist and track data and unique *ids* for each entity
- **Wikipedia API** — provides album and artist information
- **Vagalume API** — provides song lyrics



Data Sources - Query



Frontend



Spotify



WIKIPEDIA
The Free Encyclopedia
Wikipedia

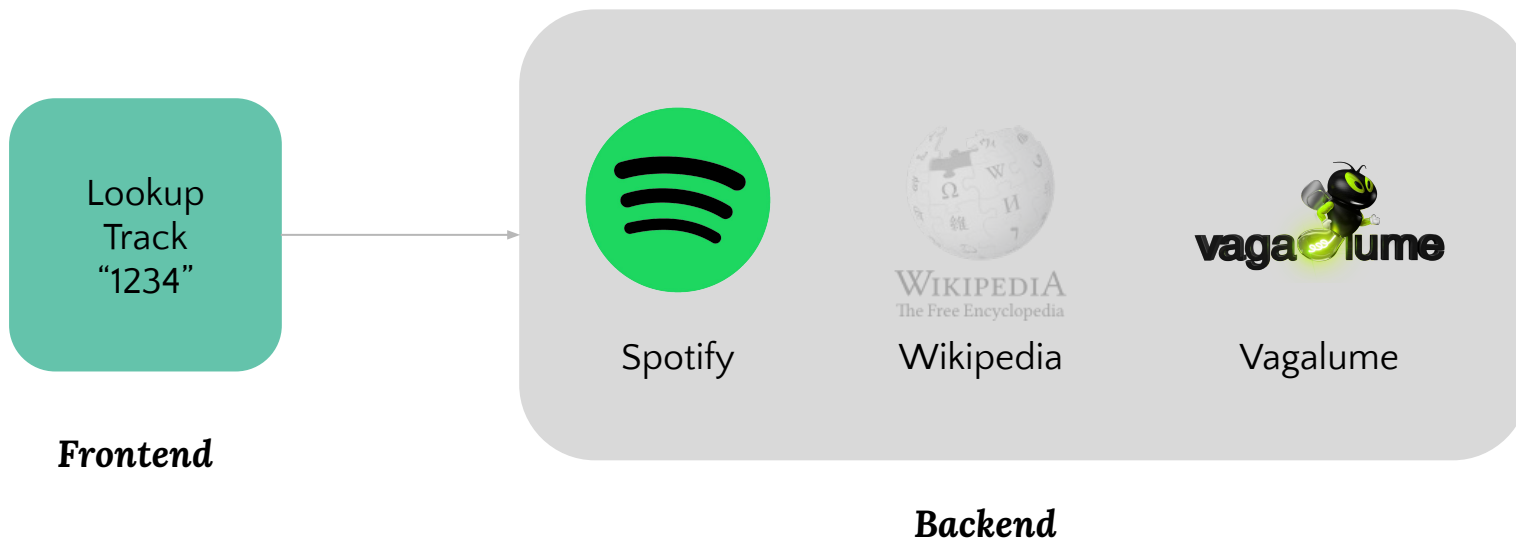


Vagalume

Backend

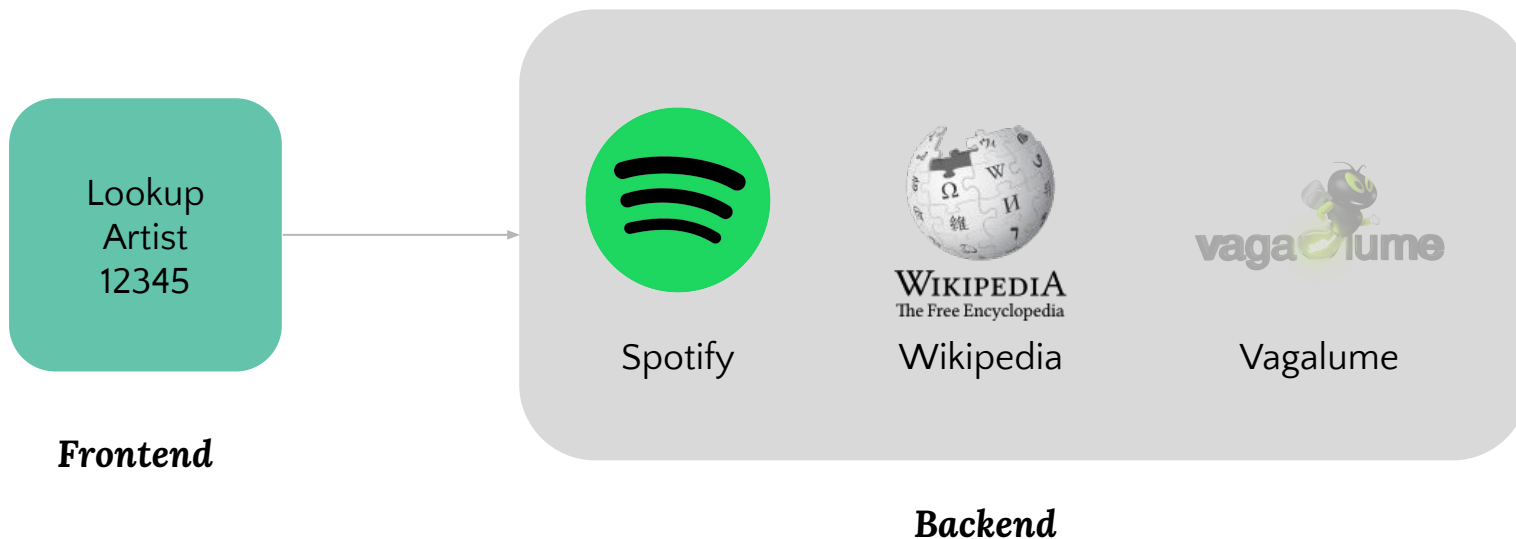


Data Sources - Track Lookup





Data Sources - Artist/Album Lookup





State of the Art & Related Work

● **Genius**

- + Crowd-sourced music knowledge and lyrics
- + Same functionality using the website
- API is hard to use and does not provide lyrics

● **MusicBrainz**

- + Merges data from own music DB and Wikipedia API
- MusicBrainz API does not provide data from the Wikipedia API
- Data is too detailed for regular users



Thank you!

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