

The background of the slide is a photograph of a concert. The top half shows a stage with several bright, warm-toned spotlights. The bottom half shows a large crowd of people from behind, with many of their arms raised in the air, some holding up phones to record. The overall atmosphere is energetic and vibrant.

Earworm

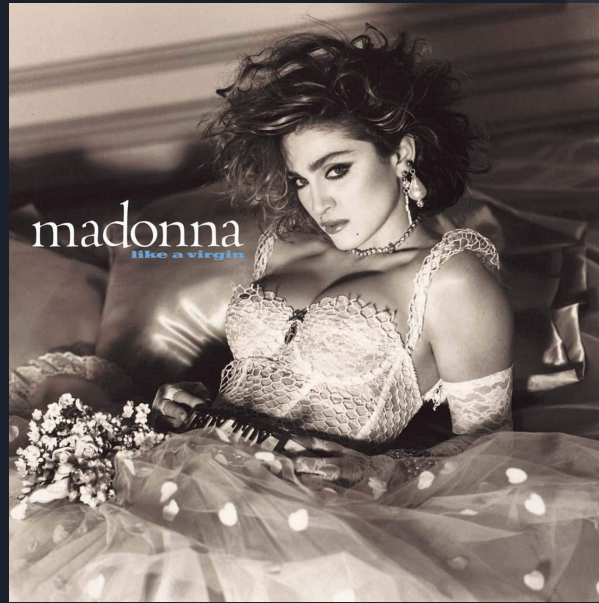
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CSCI 499 Spring 2021

Project Proposal

February 22, 2021

How do music trends evolve over time?





Product Definition

Our product will give *individuals in and out of the music industry* a solution to *the problem of scattered data about music and musical trends* by giving them *a responsive web application that acts as a central source to explore new music and visualize musical data.*

The Problem?

Data about popular charting albums is scattered across the web.

YEAR-END CHARTS
BILLBOARD 200 ALBUMS

2018 [See More Year-End Charts](#)

1		reputation Taylor Swift	▼
2		Scorpion Drake	▼
3		beerbongs & bentleys Post Malone	▼
4		The Greatest Showman Soundtrack	▼



Best of 2020

Discography Browser

Release Date May 29, 2020

Duration 42:59

Genre [Pop/Rock](#)

Styles [Dance-Pop](#)
[Pop](#)
[Club/Dance](#)

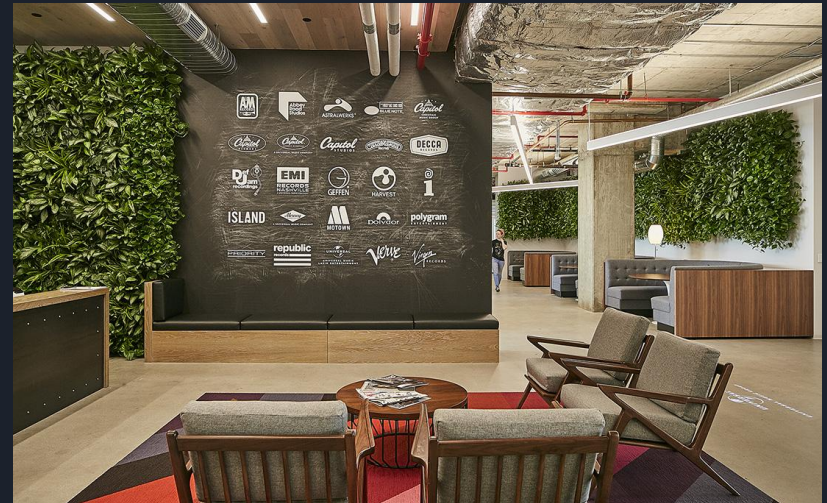
Target Audience

Musical artists are always looking for inspiration and a good understanding of the music industry.



Target Audience

Record labels and music companies need to know what music maximizes profit and is in demand.



Target Audience

Music enthusiasts could be looking for something new to listen to.



Strategy

Technicals

- Utilizing the **MERN Stack** - MongoDB, Express, React JS, and Node.js.
- **Spotify API** to add song playing features.
- With **Python**, we will scrape the data from Billboard to use it for our application.



client-side/frontend



server-side/backend



database



Strategy

Team Strengths

Emira

- Python, Web Scraping, and Full-Stack Web Development.

Ahmed

- UI Design, Frontend Web Development and Database Management.



Strategy

Team Strengths

Shah

- Frontend Web Development and Backend Tools (including Node.js, express, MongoDB, Mongoose, MySQL).

Alfredo

- UI Design, Frontend Web Development, and Object-Oriented Programming.



Strategy

Work Distribution

Emira

- Create a Python script to retrieve album/artist data.
- Setting up database + backend.

Alfredo

- Work with Spotify API.
- Research to understand how it works to implement song preview features.

Shah and Ahmed

- Create a mock UI (artists and album pages)
- Designing and working on the frontend.



UI + Mockups

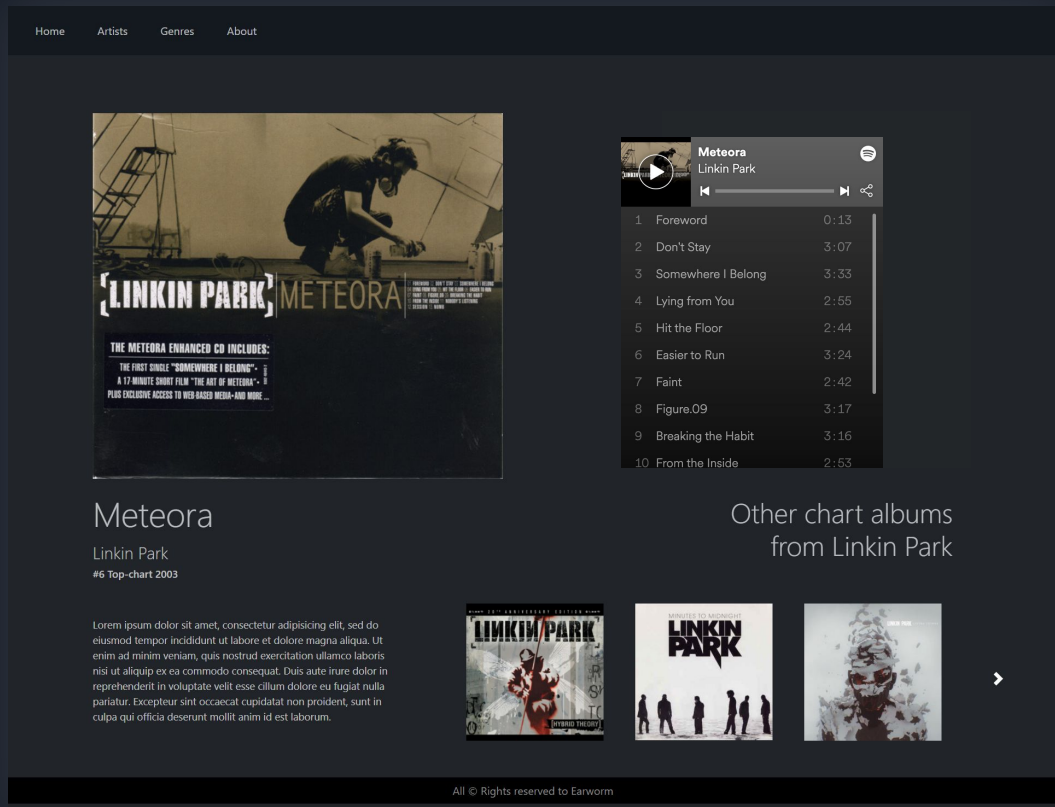
Home View



This view displays a single chart year.

UI + Mockups

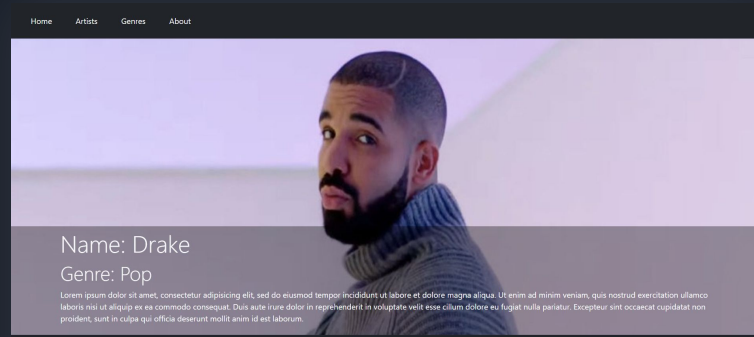
Album View



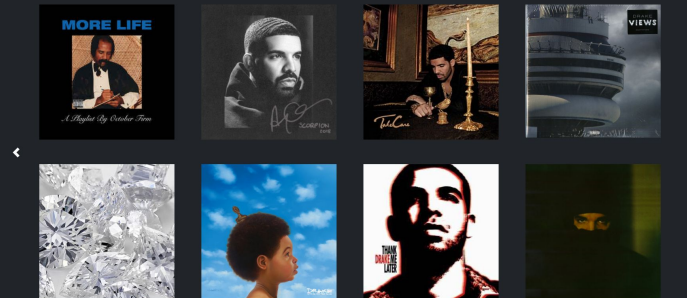
This view displays a single album, as well as all the other charting albums for that specific artist.

UI + Mockups

Artist View



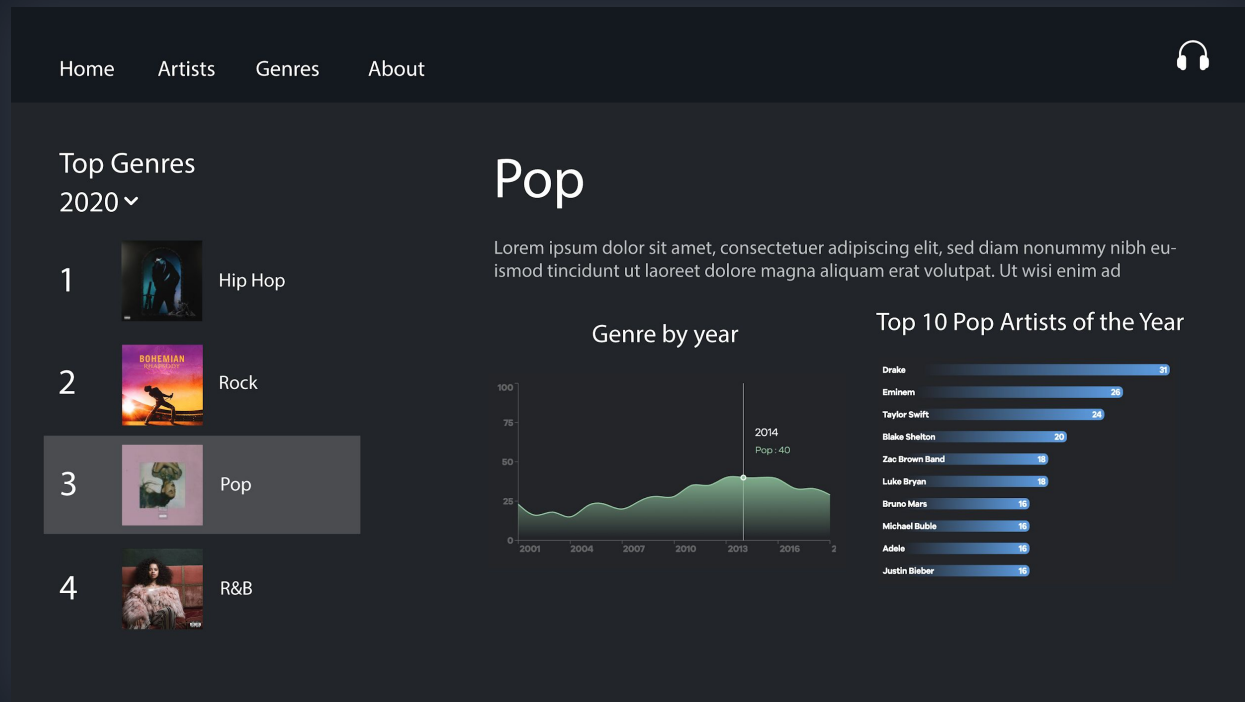
Here are list of Drake's Top chart albums



This view displays an artist profile for a charting artist.

UI + Mockups

Genre View



This view displays the top genres for any given year. When a genre is selected, a description and some stats come into view.

MVP + Nice-to-haves

Thank You

Any questions?