**Software Implementation and Testing Document**

**For**

**Group <jingle>**

Version 1.0

**Authors**:

Dante Coupet

Jack Splaine

John Barden

Gary Bowen

Kohin Khandwalla

# Programming Languages (5 points)

Framework: Django. This makes up the bones of our project. We chose Django because it was the easiest for us to learn and implement since none of us have any experience building web apps.

Languages: Python. We are using python to develop the project because that is what our framework uses.

# Platforms, APIs, Databases, and other technologies used (5 points)

APIs: Spotify API; Genius API;

The Spotify API uses the song name that is searched and returns:

1. song name

2. artist name

3. album name

4. song duration

5. genre

A function returns the top 10 results.

The Genius API scrapes lyrics from Genius to get whichever song is searched.

Database: SQLite for storing the top searched songs.

We are using HTML and CSS to design the website.

We are using HTTP requests to get user input.

# Execution-based Functional Testing (10 points)

We tested the functional requirements for the website’s post request, which is the search bar the user would enter a song in.

Tested the Spotify API to see if it returned the relevant song information.

Tested the genius API to see if it returned the appropriate lyrics for whichever song was searched.

# Execution-based Non-Functional Testing (10 points)

Tested our website to make sure it rendered the appropriate web page (home.html, results.html,etc…)

Made sure our CSS was working properly.

# Non-Execution-based Testing (10 points)

We did not perform any code reviews.