Sprint 4 Artifact

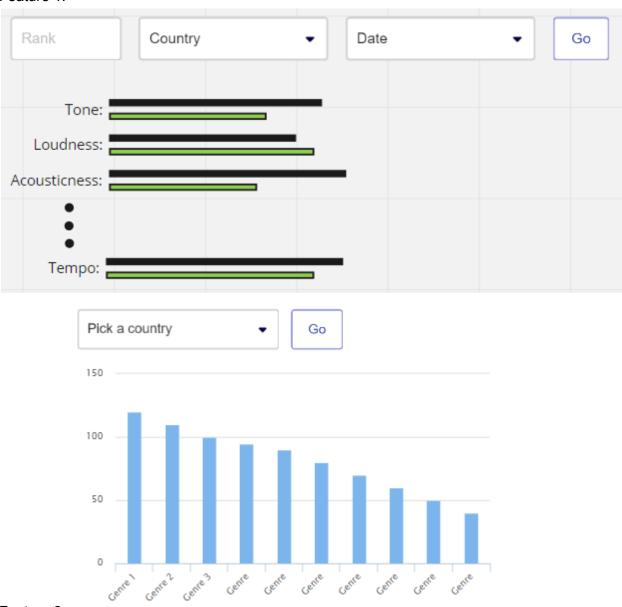
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Features:

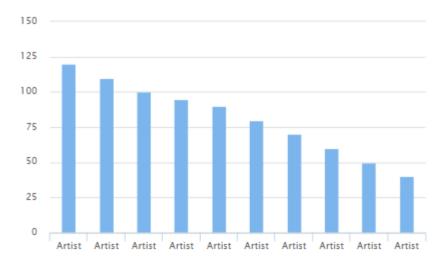
- **Feature 1**: Compare the characteristics of a song in the chart to the chart's average
- **Feature 2**: Which are the top 10 most popular genres by country
- Feature 3: Which 10 artists have the most top 10 songs

GUI design:

Feature 1:



Feature 2:



Feature 3:

Test cases:

- **Feature 1 Test Cases**: Compare the characteristics of a song in the chart to the chart's average
 - Test Case 1: The user chooses a song by inputting a rank, country, and date.
 The song is compared to the rest of the songs from the chart that the song is from.
 - <u>Correct Output</u>: The chart displays the average song characteristics above the characteristics of the song picked by the user
 - Test Case 2: The user doesn't input rank, country, or date <u>Correct Output</u>: The chart doesn't update and alert the user with an error message
- Feature 2 Test Cases: Which are the top 10 most popular genres by country
 - Test Case 1: The user picks a country and click go
 <u>Correct Output</u>: The chart displays the top 10 most popular genres for that country

To-do list:

Done list of last sprint

- GUI to update/insert/delete a song
 - [finished by Thet Zaw and verified by everyone]
- GUI to import/backup the data
 - [finished by Thet Zaw and verified by everyone]
- Backend method to delete song from chart
 - [finished by David and Marco and verified by everyone]
- Backend method to insert and update song from chart
 - [finished by David and verified by everyone]
- Backend method to update chart without refresh
 - [finished by Thet Zaw and verified by everyone]
- Backend method import/backup data

[finished by Marco and verified by everyone]

To-do for next sprint

- Backend method for feature 1
 - Acceptance criteria: The method correctly calculates the average of the characteristics and returns it
- Backend method for feature 2
 - Acceptance criteria: The method correctly calculates the top 10 popular genres
- Backend method for feature 3
 - Acceptance criteria: The method correctly calculates the top 10 artists
- UI to display feature 1
 - Acceptance criteria: The user can input a rank, country, and date and click go. The chart updates with the correct information.
- UI to display feature 2
 - Acceptance criteria: The user can choose a country and click go. The chart updates with the correct information.
- UI to display feature 3
 - Acceptance criteria: The chart displays the correct information.
- Connect backend and frontend
 - Acceptance criteria: Frontend can request from the backend and backend can send to frontend