

# HARMONIZE

A collaborative music platform by **BeatHarmony**.

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# Overview

- A collaborative music platform centered around **finding, creating,** and **listening** to music playlists together.
- Existing music streaming services create recommendation echo chambers.
- Redefining playlists as socially driven collaborative music hubs.
- Works with existing music streaming services to pool all your favorite music into one place.

Learn more at **[BeatHarmony.Squarespace.com](https://BeatHarmony.Squarespace.com)**



# Design Goals for Sprint 5

- Update prototype for MVP
- Update prototype based on user feedback
- Create logo and poster for CIC

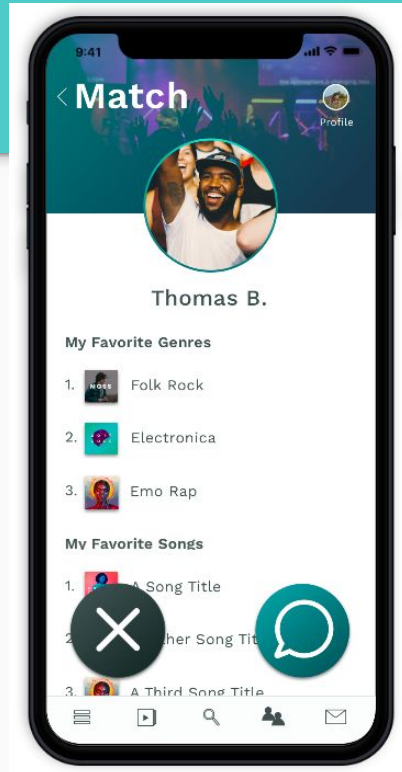
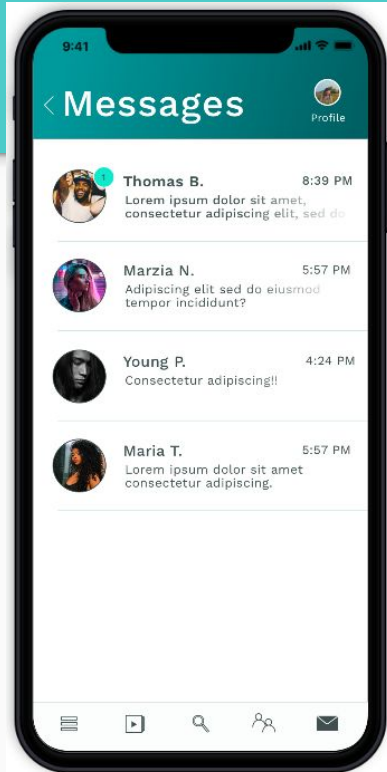
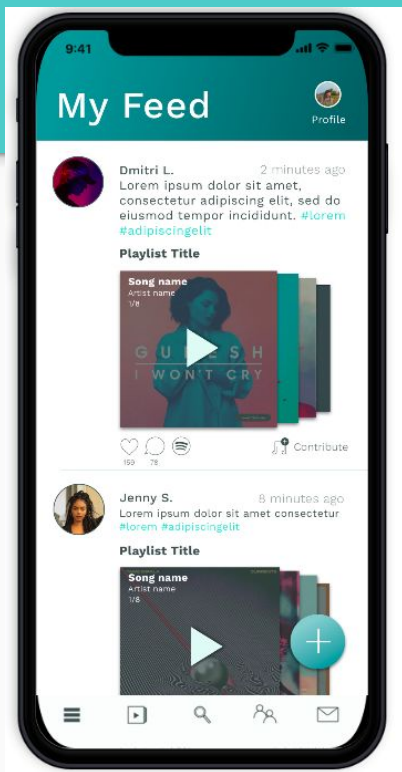
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# Feedback from Sprint 4

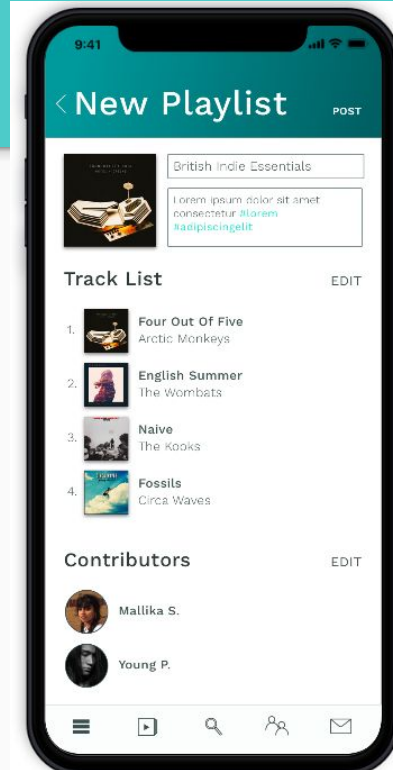
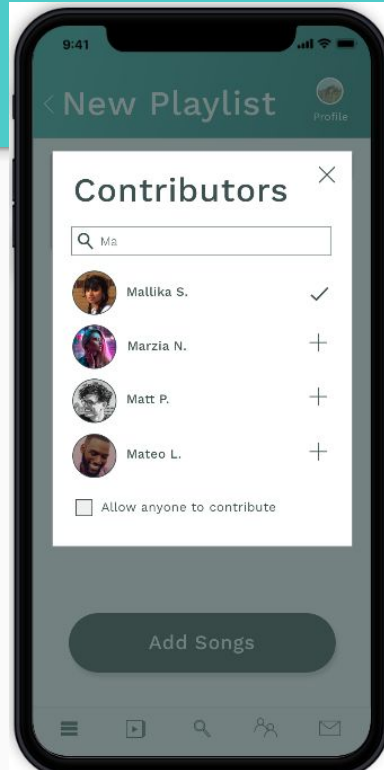
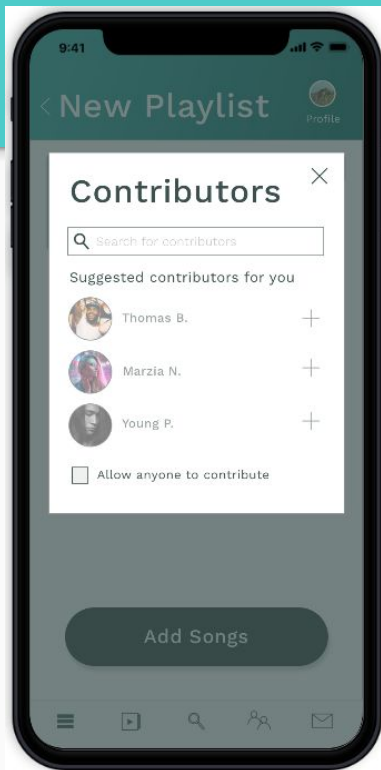
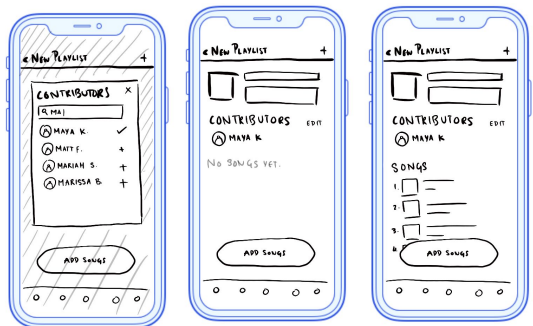
- 77% of participants reported that contributing to a playlist was easy or very easy.
  - Users want advanced collaboration features
  - 3 users expected the “new playlist” button to let them contribute
- 34% of participants reported that it was not easy to find their messages.
  - 3 participants stated that they expected the messages to be in the bottom menu bar.
  - The matches icon was confused for the messaging icon

# Restructuring



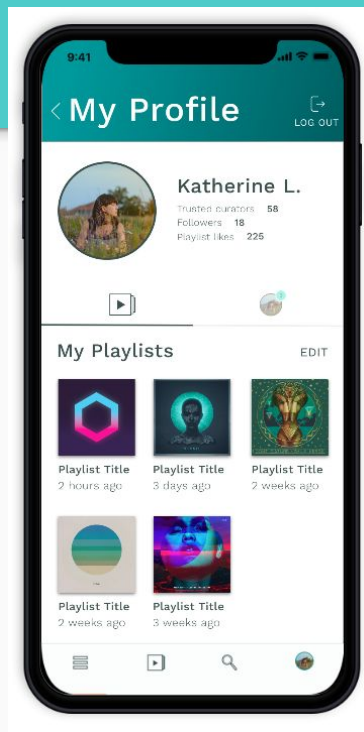
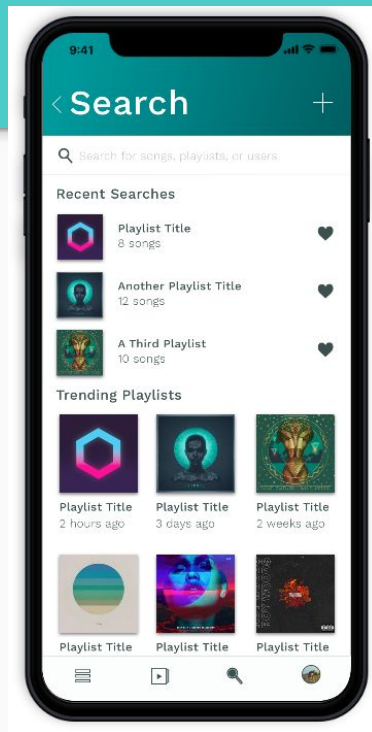
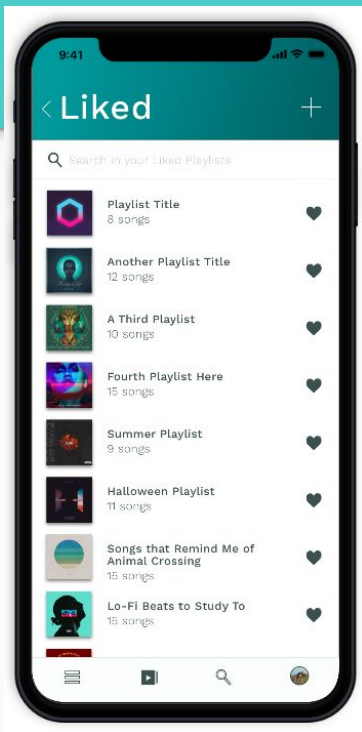
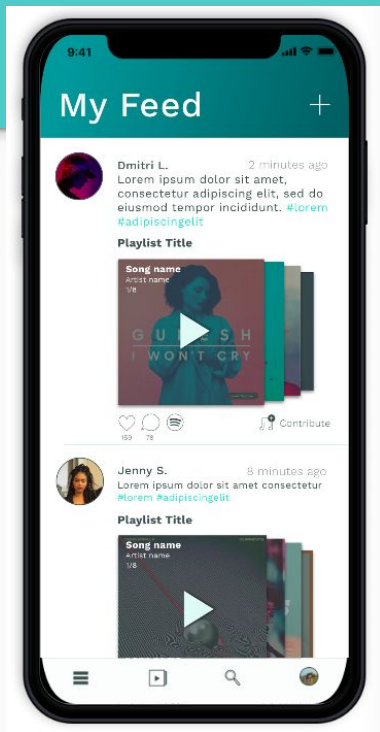
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# Contributions



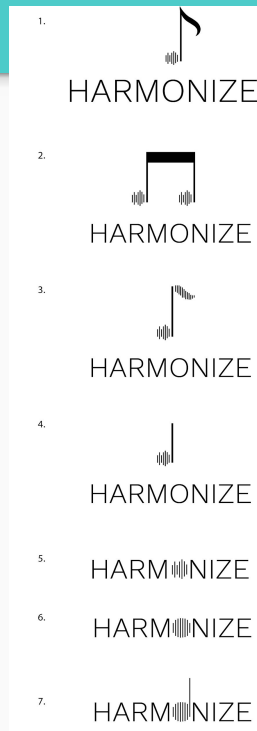
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# MVP Prototype



Learn more at [BeatHarmony.Squarespace.com](https://BeatHarmony.Squarespace.com)

# Logo



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# MVP Goals

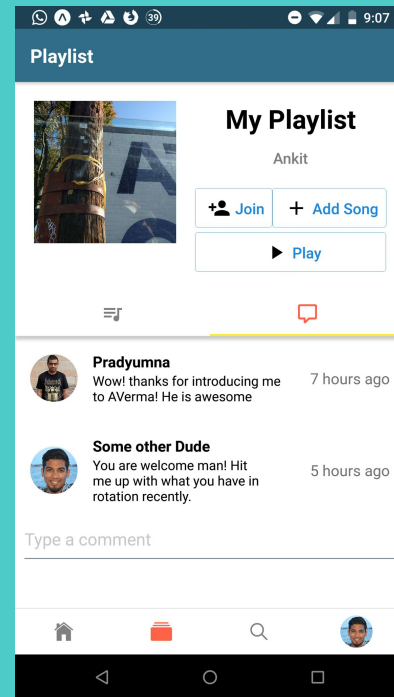
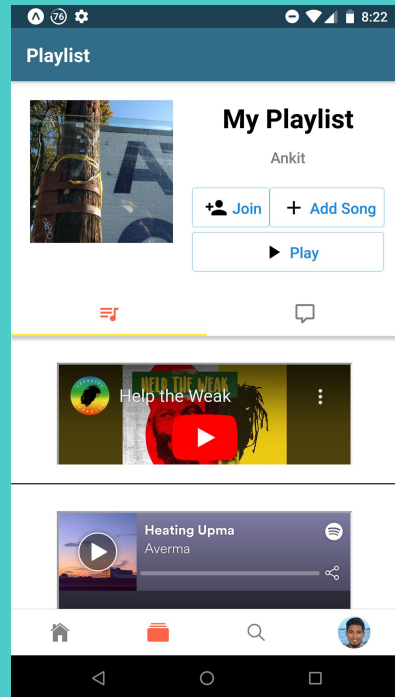
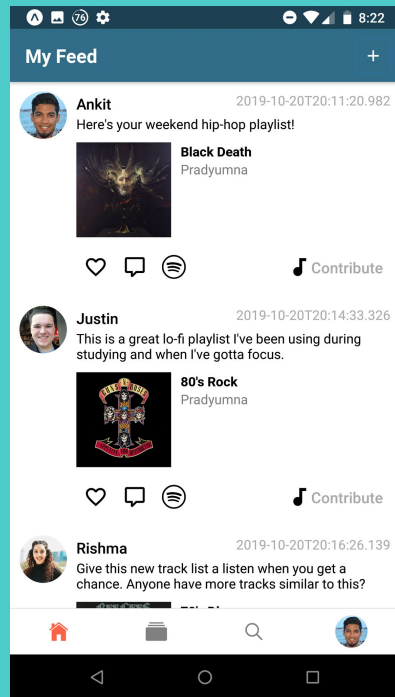
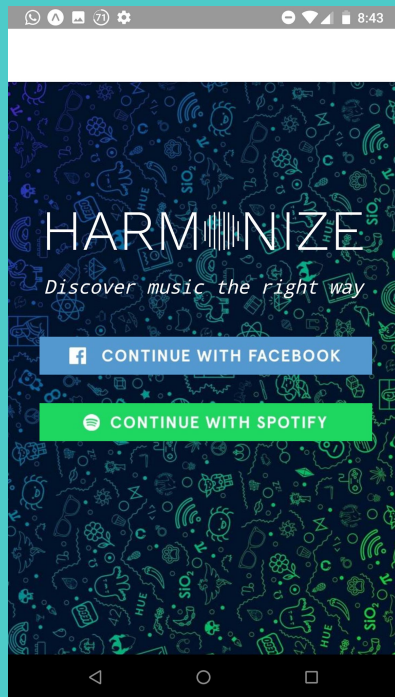
- Music Service Integration
  - Stretch Goal: Multiple Music Services
- Playlist Creation Functionality
  - Search, Add, or Remove from Music Services
- User Profile Support
  - Stretch Goal: Multiple Service Login Support
- Social Feed Functionality
- Backend Integration
  - Storing and Managing User Data

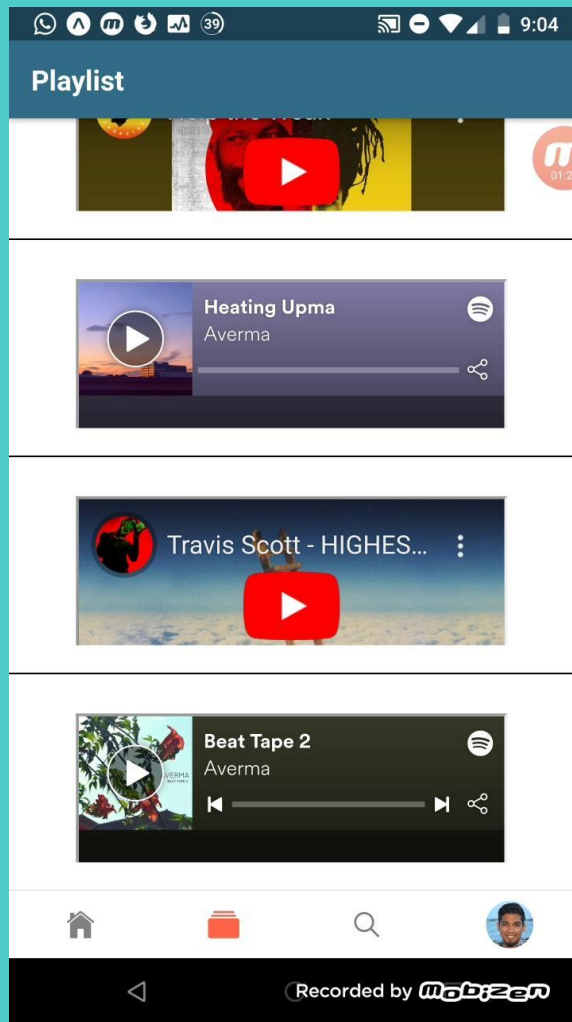
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# HARMONIZE

MVP DEMO









# Backend Review

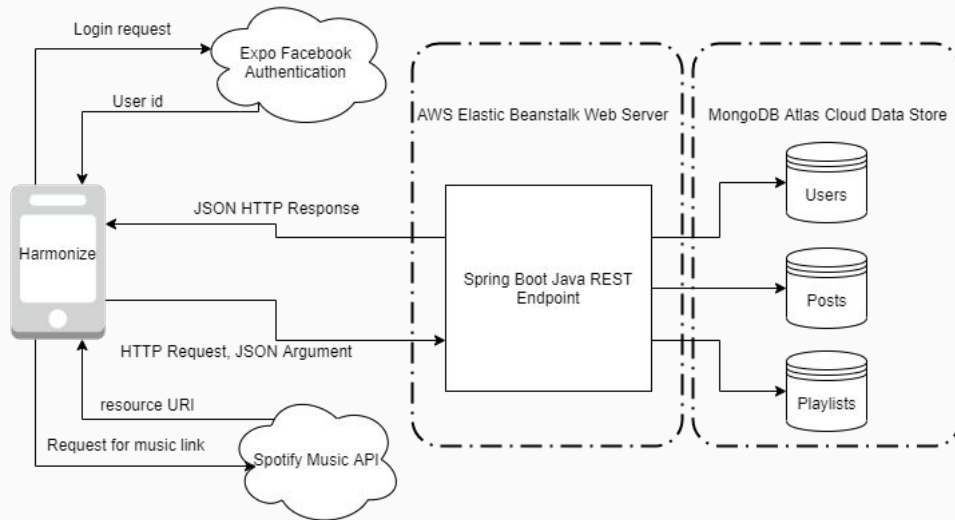
- New Playlists repository
  - Necessary CRUD operations also implemented
- Added comment storage to existing repositories
- Added additional information to be stored in Users

Learn more at **[BeatHarmony.Squarespace.com](https://beat-harmony.com)**

# HARMONIZE

BACK END DEMO

# Final Architecture



Learn more at [BeatHarmony.Squarespace.com](https://BeatHarmony.Squarespace.com)



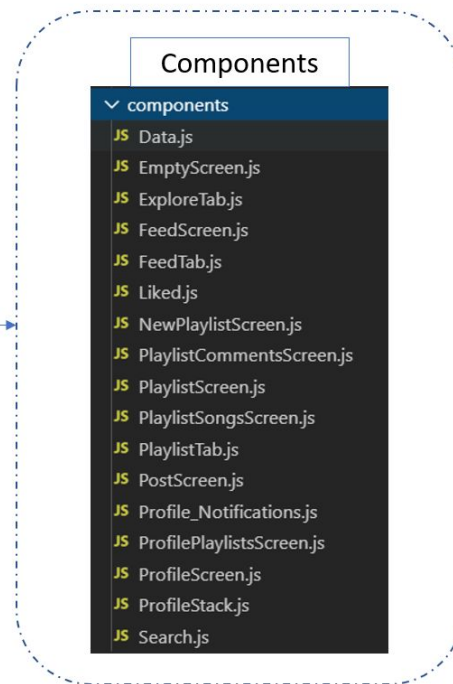
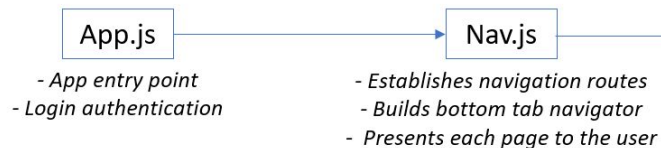
# Code Review - Back End

- Three repositories, each with its own REST controller:
  - Posts
  - Users
  - Playlists
- Utility code for JSON responses from server

```
@PostMapping("/posts/{id}/like")
public StringResponse likePost(@RequestBody StringResponse response, @PathVariable String id) {
    String likerId = response.getText();
    if (repository.existsById(id)) {
        Post source = repository.findById(id).get();
        if (!source.getLikedBy().contains(likerId)) {
            source.addLikedBy(likerId);
            repository.save(source);
            return new StringResponse( text: "Like successful.");
        } else {
            return new StringResponse( text: "User already likes said post.");
        }
    } else {
        return new StringResponse( text: "Post not found.");
    }
}
```



# Code Review - Front End





# Code Review - Front End

## Tabs:

- ExploreTab.js
- FeedTab.js
- PlaylistTab.js

## Screens:

- FeedScreen.js
- NewPlaylistScreen.js
- PlaylistCommentsScreen.js
- PlaylistScreen.js
- PlaylistSongsScreen.js
- PostScreen.js
- ProfilePlaylistsScreen.js
- ProfileScreen.js
- Search.js

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