

Team 21 - Product Backlog

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Project Name: Vern?

Problem Statement

Students across campuses don't have a centralized platform to share and discover music along with local live music events happening around campus. Local artists are also underrepresented in Spotify. Spotify currently lacks social media aspects that allows users to discuss the music they are listening to, does not allow users to form groups tailored to their music tastes and lacks information about local live music events. Our project will differ from existing services by focusing more on a local scale rather than a worldwide scale.

Background Info

Audience:

Spotify has millions of users and many of those users are college students and music makers. Local artists and businesses are heavily underrepresented in Spotify's app and lack ways to promote their work in the community. Also, college students do not have a way to interact and share music with each other through Spotify's platform. They also lack social features such as being able to discuss and form groups based on musical tastes and interests. Our intended audience for the app are college students, local artists and businesses that may want an expanded social platform for music making and enjoyment within the local community.

Similar Platforms:

Songkick Concerts - An app that allows you to find artists playing at larger venues in certain areas.

Shazam - Has a feature where they show you what songs are being shazamed the most in certain regions. However, it is extremely slow and doesn't allow you to create groups of your liking like our application will.

[MySpotify](#) - Shows your Top artists and albums using React and Node.js.

HearThis.At - Shows you a map of artists who have recently uploaded a track that is within your genre of interest, allowing you to discover new local bands and artists.

Limitations:

While Spotify has a playlist feature that allows you and your friends to add music to and see what song you are listening to at that time, it lacks depth and the social aspect that music itself can bring to a tight community.

While HearThis.At allows you to become familiar with artists who release music near you, it does not allow for users to know the artist's next moves, therefore reducing the potential support for the artist and activity opportunities for users.

Functional Requirements

1. As a user, I would like to be able to sign up for a <Project_Name> account.
2. As a user, I would like to be able to edit my profile to set or change my profile picture.
3. As a user, I would like to be able to add a bio to my profile.
4. As a user, I would like to be able to add genres I am interested in to my profile.
5. As a user, I would like to be able to change my account's password whenever I want or reset it if I forgot.
6. As a user, I would like to be able to change the UI scheme to dark mode
7. As a user, I would like to be able to hear snippets of music that are recommended to me.
8. As a user, I would like to be able to see what people with similar music tastes to mine listen to.
9. As a user, I would like to be able to create a social group.
10. As a user, I would like to be able to join an existing social group.
11. As a user, I would like to see a list of local artists using the app.
12. As a user, I would like to see the locations of local artists' performances on something like Google Maps.
13. As a user, I would like to be able to add local artists' performances to my calendar.
14. As a user, I would like to be able to receive notifications about upcoming performances.
15. As a user, I would like to find local artists that write my favorite genres of music.
16. As a user, I would like to be able to see a generated playlist on the most popular songs each week.
17. As a user, I would like to be able to see a generated playlist on local artists' new releases.
18. As a user, I would like to be able to book local artists for performances.
19. As a user, I would like to link my Spotify account to the app.
20. As a user, I would like to add a song from the app into my Spotify playlist.
21. As a user, I would like to see more information about local artists.
22. As a user, I would like to see what local artists are most popular in the area.
23. As a user, I would like a quick easy way to share local artists on social media.
24. As a user, I would like a quick way to view what songs are popular in my social group.
25. As a user, I would like to be able to make a post about albums or songs and post them in my social group.
26. As a user, I would like to be able to see a map (similar to SnapChat) that shows popular songs in certain areas.
27. As a local artist, I would like to be able to verify that I am a local artist or business if I am indeed one.
28. As a local artist, I would like to be able announce and advertise future performances to users.
29. As a local artist, I would like to be able to share my work with other users.

30. As a local artist, I would like to be able to see statistics for my music.

31. As a local artist, I would like to find other local artists to discover and collaborate with.

Non-functional Requirements

Architecture/Performance

We plan on developing our application using a React Native frontend to implement on both iOS and Android, a Node.js backend and MongoDB for our database. In addition, we will be using Node.js to communicate with Spotify API to pull data from as the user makes requests through our React frontend.

Security

Ensuring the security of our users' data will be crucial for our app, since users will be sharing their account data and Spotify data through the API. We will be using a Node.js back-end and MongoDB database to host and store sensitive data, and they are well-developed frameworks that will ensure the security of our application and our users' data. We will implement a login system to ensure that users can only access data and information that they should be able to. Additionally, only those with a @purdue.edu will be allowed to sign up for an account to ensure that all users are people within the community.

Usability

Our app user interface should be easily navigable and simple in nature, as to allow for ease of use. Users should be able to register as an artist, and see a similar UI to regular users, but with additional accessibility. These two types of users should share a central platform with the same accessibilities, but artists will have additional options to promote their upcoming events and share their music. Our app should work with all screen sizes and resolutions.