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Title: GitSound

Description: GitSound is an application that allows users to version control their music playlists. We will use SoundCloud and Spotify APIs to let users play music on our platform. All of their playlists will have version control and collaboration features similar to GitHub that will be implemented using Git. The interface will be hosted on a website.

Vision Statement: "Our vision is to allow all music listeners to version control their playlists."

Motivation: We all use Spotify and SoundCloud to listen to music. We also use GitHub for programming, and we noticed that there are many features that GitHub has that would improve the user experience on Spotify and/or SoundCloud. We would like to see this project through to the end so that we could use it in our everyday lives.

Risks:
- We have varying experience with all different languages
- SoundCloud and Spotify API access
- We are going to want to use a framework and we don't all have a common one to use
- Server space availability

Mitigation Strategy:
- We will have to work together to learn and teach different languages and frameworks so we can all fully participate in the project
- Read over the API documentation and reach out to Spotify and SoundCloud if needed to access and use their APIs
- Buy server space

VCS: GitHub (https://github.com/GitSound/GitSound)

List of Requirements:

User Requirements			
ID	Description	Time Estimate	Priority
USER-01	As a Spotify user, I want to be able to see my playlists so that I can choose my music.	8 hours	High

USER-02	As a SoundCloud user, I want to be able to see my playlists so that I can choose my music.	8 hours	Medium
USER-03	As a user of GitSound, I want to be able to clone others' playlists so that I can add more songs to them.	5 hours	High
USER-04	As a GitSound user, I want to be able to branch playlists so that I can avoid copying all my songs from one to another.	4 hours	Medium
USER-05	As a GitSound user, I want to be able to merge my changes to original playlists so that others can view my changes.	4 hours	Medium
USER-06	As a GitSound user, I want to be able to pull in new changes from a playlist I cloned	5 hours	Low

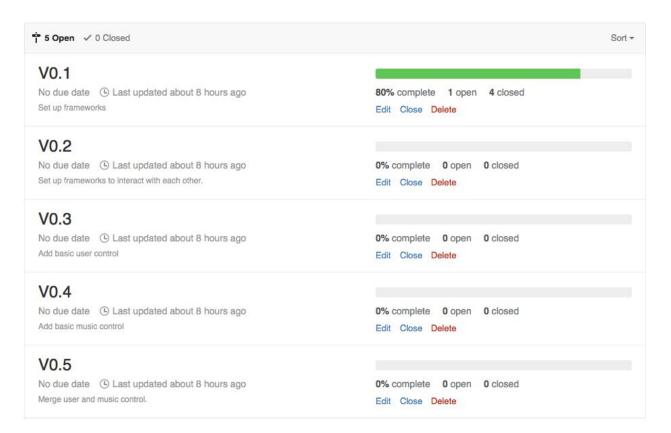| Functional Requirements		
ID	Description	Priority
FR-01	Existing Spotify and SoundCloud users will be able to keep account name and password to login to our app.	High
FR-02	New users will be able to register using their Facebook login or a valid email address using the "Sign-up" link.	High
FR-03	Users will be able to fork, and branch, existing playlists using our website.	High
FR-04	Users will be able to create new playlists.	High
FR-05	Users will be able to make merge requests to merge their changes into the original playlist.	Medium
FR-06	User created playlists will save back to Spotify	High
FR-07	User created playlists will save back to SoundCloud	Medium

Non-Functional Requirements		
ID	Description	Priority

NFR-01	Performance: The cloning of playlists should take no longer than 10 seconds (max).	High
NFR-02	Portability: The website should be usable on all different devices.	Medium
NFR-03	Reliability: Users must be able to access their playlists at all times.	High
NFR-04	Platform Constraints: The website must be usable on different platforms (Windows, OSX, etc.).	High

Methodology: Agile

Project Tracking Software: GitHub issues (https://github.com/GitSound/GitSound/issues)

Project Plan:

Market Analysis:

    Target Market:

- The target market for this product are the users of Spotify and SoundCloud.

- The number of paid Spotify subscribers is continuing to grow and SoundCloud users have increased dramatically in the last couple of years.
- Users of both of these apps range in age and demographic. However, they do share one thing in common: they want to be able to make their own playlists containing music that they enjoy.
- SoundCloud allows its users to upload their own music to the product to then share with other, so users from this segment may be looking to add their music to existing playlists on the application.

Profile of Competitors:
- tunemachine is a hackathon project that allows to you take snapshots of playlists and then later revert back to those snapshots at any time.
  - tunemachine allows users to easily keep track of collaborative Spotify playlists with nicely laid out graphics.
  - It does not allow users to branch other's playlists or clone them to then modify themselves.

Competitive Advantage:
- Unique features:
  - Ability to branch existing playlists
  - Ability to merge changes to original playlists with the permissions of the original playlist owner
- Price:
  - Free to Spotify and SoundCloud users
- New technologies or systems:
  - Will use the GitHub API for the website format
- Compatibility with existing systems:
  - Website will have user login to Spotify and/or SoundCloud and playlists will appear and user will be able to make changes from within the website.

Infographic:

Market Analysis

001.

Spotify

1.5 billion playlists

Spotify is a music service that has 75 million active users. They provide free and paid subscriptions and their users have a over 1.5 billion playlists. APIs allow access to spotify playlist and user data.

002.

SoundCloud

350 Million Active Users

SoundCloud dominates the market in online music, it is popular around the world for discovering new music. With 350 million active users, they have a huge user base of all ages. SoundCloud also provides APIs to access data.

003.

GitSound

2 Million Potential Users

By pulling in music and playlists from Spotify and SoundCloud we can reach both user bases. If just 0.5% of the current active users decide to use our service, we will have over 2 million users. There is a huge market here waiting to be explored.

GitSound