Final Project Technical Implementation Plan

* Group name: Web Warriors (Group 3)
* Group members
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* GitHub Repo: <https://github.com/fferrer89/streaming-service>
* The function and general overview of your project; give 1-2 paragraphs on the overall vision
  + Music Streaming Platform
  + Description: In this project we are going to develop a music streaming platform like spotify. It will include features such as user profiles (user and admin), and components such as songs, libraries, playlist creation, liking of songs and playlists, etc. The platform will also provide search and recommendations functionality. Admin users will have the capability to add songs as well as analytics dashboards.
  + Features:
    - Profiles
      * Registration and Login
        + User
        + Admin (uploads and removes songs)
      * Like songs
      * Listening History
    - Playlists
      * Users can create and edit their own playlists
      * Playlists visibility: Private and Public
      * Users can like playlists
    - Library with songs
      * Add a song
      * Remove a song
    - Song:
      * Skip - forward and back
      * Lyrics
    - Search and Recommendations
      * Searching for songs, albums, playlists, other user, lyrics
      * Recommendation songs based on previously played songs and liked songs - Personalized recommendations
    - Dashboard with analytics in Admin profile
      * Most listened songs (trending songs)
      * Number of users over time
* Each of your three course technologies you intend on using, as well as what their uses will be
  + Next JS
    - Used for client and server side rendering
  + GraphQL
    - API layer to retrieve and add metadata from the front end (songs, profile info, playlists, search results)
  + MongoDB
    - Database for songs, profile info, playlists, search results. Etc
* The two independent technologies, a brief description of each, as well as what their uses will be
  + OAuth 2.0 or/and OpenID Connect (OIDC): A modern authentication and authorization protocol.
    - We plan to use the OIDS to verify our user's identity (authentication) in addition to authorizing the users to protected resources via JSON Web Token. We will also implement an email registering method, so only users with validated emails will be registered.
  + Deploying the application and services to the cloud
    - MongoDB - Atlas
    - Next JS - Vercel
    - GraphQL - Heroku