Project Milestone 5

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Music Visualizer:
- **Description:**
  - The music visualizer can be tested by unit testing and user acceptance testing where to make sure that the music visualizer works have the user input only a song at a time and if the user is given the ability to upload multiple songs it should fail.
- **Test Cases:**
  - Case 1:
    - User can upload one song at a time and the song should play with all functionality, will return a success message
  - Case 2:
    - The program buttons (play, pause, etc.) should only work for their intended purpose, will return a success message
  - Case 3:
    - The user can upload multiple files at a time, will return an error message
  - Case 4:
    - The user has not uploaded a song and should not be able to use the music visualization, will return an error message

Login:
- **Description:**
  - The login page front/backend can be tested by user acceptance testing where if the user is able to input the required information than the user should be able to login, from there the program should be able to retrieve all the required user info from the database.
- **Test Cases:**
  - Case 1:
    - User has imputed their email and password in correctly, will return a success message
  - Case 2:
    - User has correctly entered in the right password in order for the user to login, will return a success message
  - Case 3:
    - User has imputed nothing and should not be able to go to the next page before logging in, will return an error message

- ○ Case 4:
  - ■ User has only put in their password without their email address and should not be able to login, will return an error message

Database:
- ● **Description:**
  - ○ The database can be tested using user acceptance testing by testing if the user can edit the details of their account and if they can edit their playlists. The database should be changed appropriately when these events occur.
- ● **Test Cases:**
  - ○ Case 1:
    - ■ User should be able to update their account information in the users table, return success message.
  - ○ Case 2:
    - ■ User should not be able to update the account information in the users table of other users, return error message.
  - ○ Case 3:
    - ■ User should be able to add a song to a playlist in the songs array in the playlists table, return success message
  - ○ Case 4:
    - ■ Playlists of others should not be changed or fetched from the playlists table when user attempts to view or edit them, return error message.