Project Specification for Group #119

Team Name: Spotify Bandits

Domain: Trivia (music focused)

Software Specification:

The program allows users to play a trivia game designed to test their song recognition abilities. The user should be able to customize the way the game is played, including options for how many rounds are played, the difficulty of each round, and the genre of music to focus on. For each round in the game, users should be played a snippet of audio from a random song and then be prompted to answer a question about that song either by selecting the answer from a list of options or typing it in manually (depending on the difficulty level). The program should generate and keep track of a user's score based on the correctness of the user's answers and the pre-determined game settings. At the end of a game, users will be shown their scores and other statistics from the game. The program will save these statistics permanently so that users can look back at all of the games they have played. The program should also allow users to save unfinished games so that they can exit the program and play the same game at a later time.
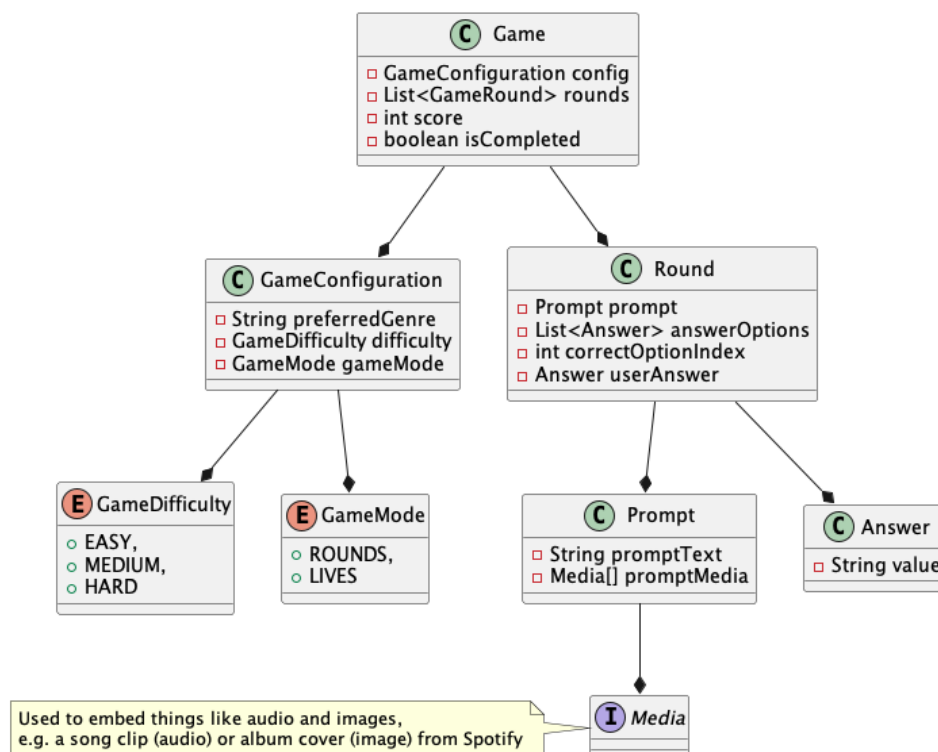
Additional Details:
- Difficulty levels
    - Easy: 2 multiple choice options given per round
    - Medium: 4 multiple choice options given per round
    - Hard: manually type in answer every round
- Game modes (i.e. how many rounds are played)
    - Play until you get X number of questions wrong
    - Play X number of rounds per game
- Sample prompts
    - What is the title of the played song?
    - What album is the played song from?
    - Who is the artist of the played song?
    - What year was the played song from?
- Statistics
    - Number of questions asked
    - Number of questions answered correctly
    - Longest streak of correctly answered questions
    - Number of games played

User Stories:

1. As a user, I want to be able to choose the difficulty of a new trivia game. I should see this change reflected in the questions I get during the game I start.
2. As a user, I want to be able to customize the game mode that I play for a new trivia game. I should see this change reflected in the number of rounds I play during the game I start.
3. **[TEAM STORY]** As a user, I want to play a trivia game where I listen to a small clip of a song and then get asked a question about that song. I want to then be able to guess what the answer to that question is and be told if I was correct or not. I want to see the correctness of my answer reflected in the game score.
4. As a user who just finished answering a question, I would like to move on to the next round if the game is not over. Otherwise, I would like to be shown statistics about my performance from the game.
5. As a user, I would like to be able to save my in-progress game and return the main menu. When I go to sleep and wake up the next day, I would like to continue playing the same game from where I left off.
6. As a user, I want to be able see statistics about all of the games I have ever played. This includes seeing my personal best scores and the results from my last few games.

Proposed Entities for the Domain:

Scheduled Meeting Times + Mode of Communication:

Meeting time outside of lab: Tuesdays right after the lab at 3pm for an hour
Mode of Communication: WhatsApp Group Chat