CSE360 Summer 2021 Assignment 2

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June 11, 2021

An online music playlist system can have users that can do the following:

- The user can add a song to the playlist. The system will ask the user to input the song name before searching for it in the system's database.

    - If the song was not found, the system will add the song to a list that administrators use to know what songs should be added to the system's database.

- The user can play a song in the playlist. The system will ask the user to input the song name before searching for it in the user's playlist.

- The user can remove a song from the playlist. The system will ask the user to input the song name before searching for it in the user's playlist.

The system also has administrators that can do the following:

- An administrator can do everything that a regular user can do.

- An administrator can add a song to the system's database. The system will show the list of songs that users have been requesting.

- You can assume there is no limit to the number of songs that can be in the playlist or in the system's database.

Problem 1

Below are some user stories that describe some of the actions that users/administrators can do with the online music playlist system described above. Fill in the missing "???" parts so the user stories will match the description above.

As a "???", I want to add a song to my playlist, so that I can listen to more songs.

As a user, I want to "???", so that I can listen to the song.

As a user, I want to "???", because I do not want to listen to the song anymore.

As an administrator, I want to "???", so that "???".

Solution

As a user, I want to add a song to my playlist, so that I can listen to more songs.
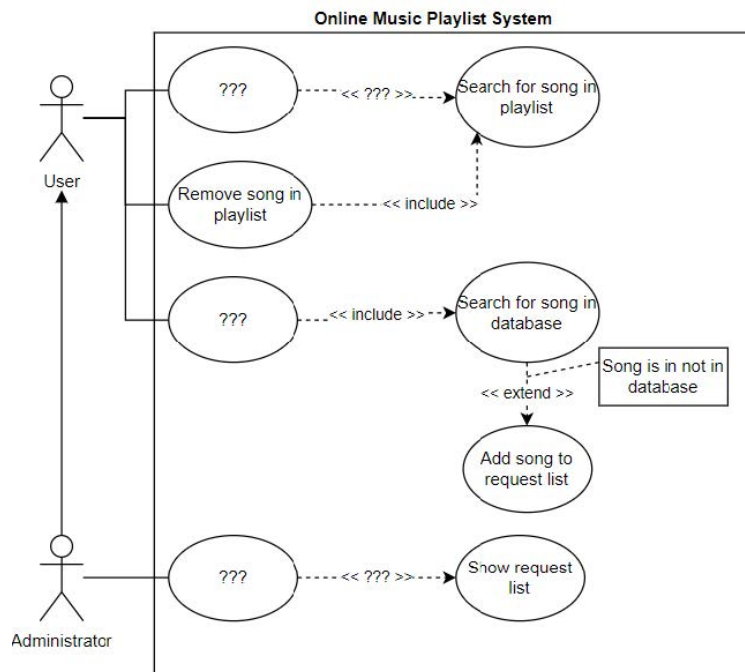
As a user, I want to play a song in my playlist, so that I can listen to the song.

As a user, I want to remove a song from the playlist, because I do not want to listen to the song anymore.
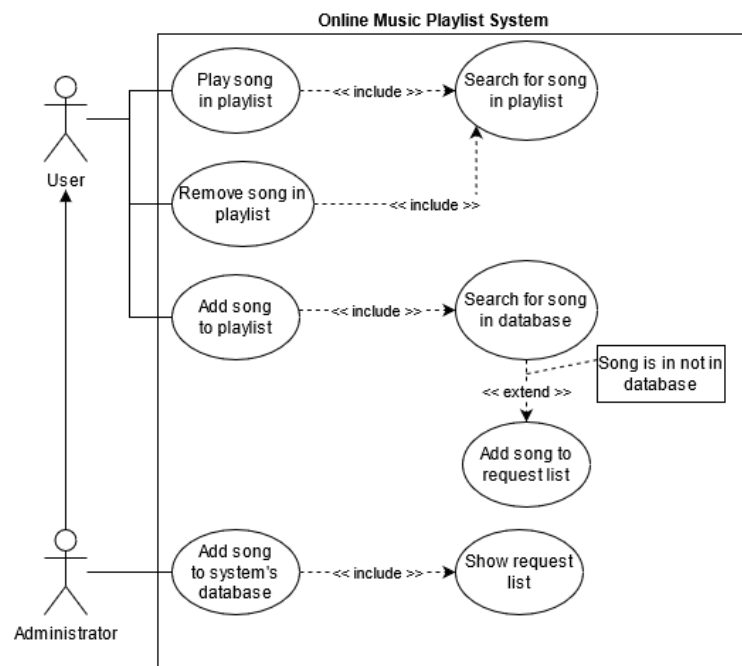
As an administrator, I want to add a new song to the system's database, so that the users are satisfied with user-requested songs.

Problem 2

Below is a UML use case diagram that describes some of the interactions that a user may have with the system and how the system handles each action. Fill in the five missing "???" parts to make the diagram match the above problem description.

Solution

Let's add some new features to the online music playlist system, downvoting a song and removing a song from the database.

- A user can downvote a song. The system will add the song to a list that administrators use to know what songs should be removed from the system's database.

- An administrator can remove a song from the system's database. The system will show the list of songs that users have been downvoting.

Problem 3

Write the user stories that describe the features that need to be added to the system.

Solution

As a user, I want to downvote a song, so that I can show others I dislike the song.

As an administrator, I want to remove a song from the system's database, so that the system's database will not be cluttered with songs that users dislike.

Problem 4

Modify the UML use case diagram from problem 2 to include the new interactions.

Solution