

YouTube Jukebox Design Preliminaries

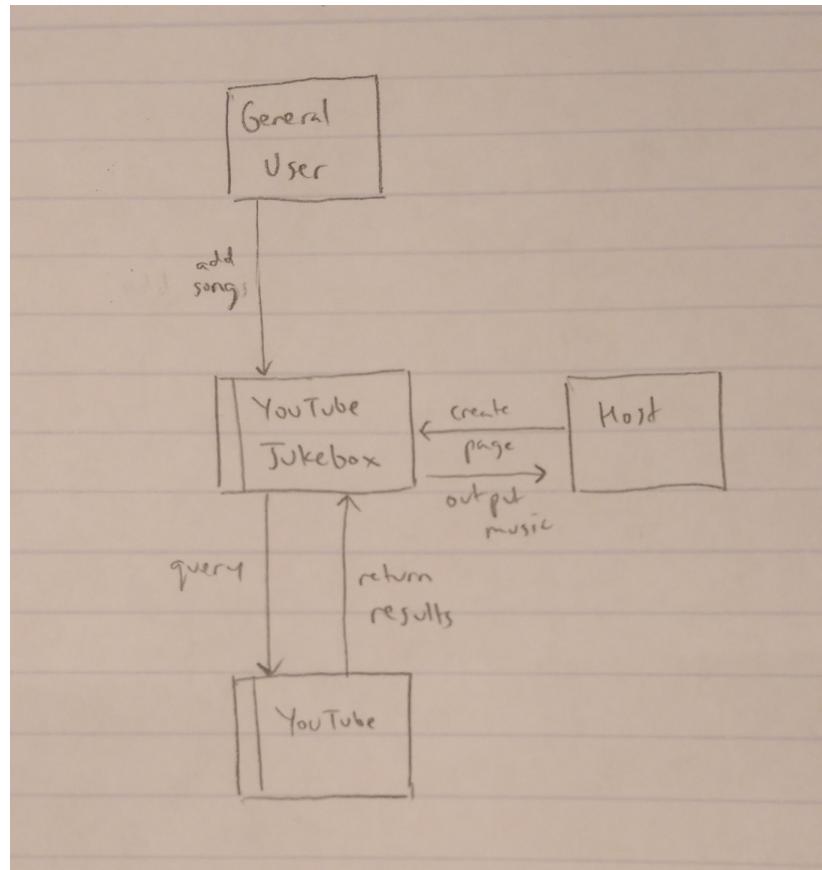
Purpose

The purposes of YouTube Jukebox are as follows:

Enable friends who are listening to music in the same physical location to modify the playlist of music playing. Multiple people can view the list of music to be played, and conveniently add to it according to their individual tastes. Traditionally, only one person might have control of the music device (iPod, radio, etc.), but YouTube Jukebox allows more than one person to have direct input as to what song should be played.

Enable friends to view the musical tastes of their friends in real time. Because multiple people can access the playlist of music playing (and to be played), users can see what songs other people have added to the playlist. Unlike static playlists on Spotify or similar services, YouTube Jukebox playlists can change dynamically according to their users' current desires.

Context



Concepts

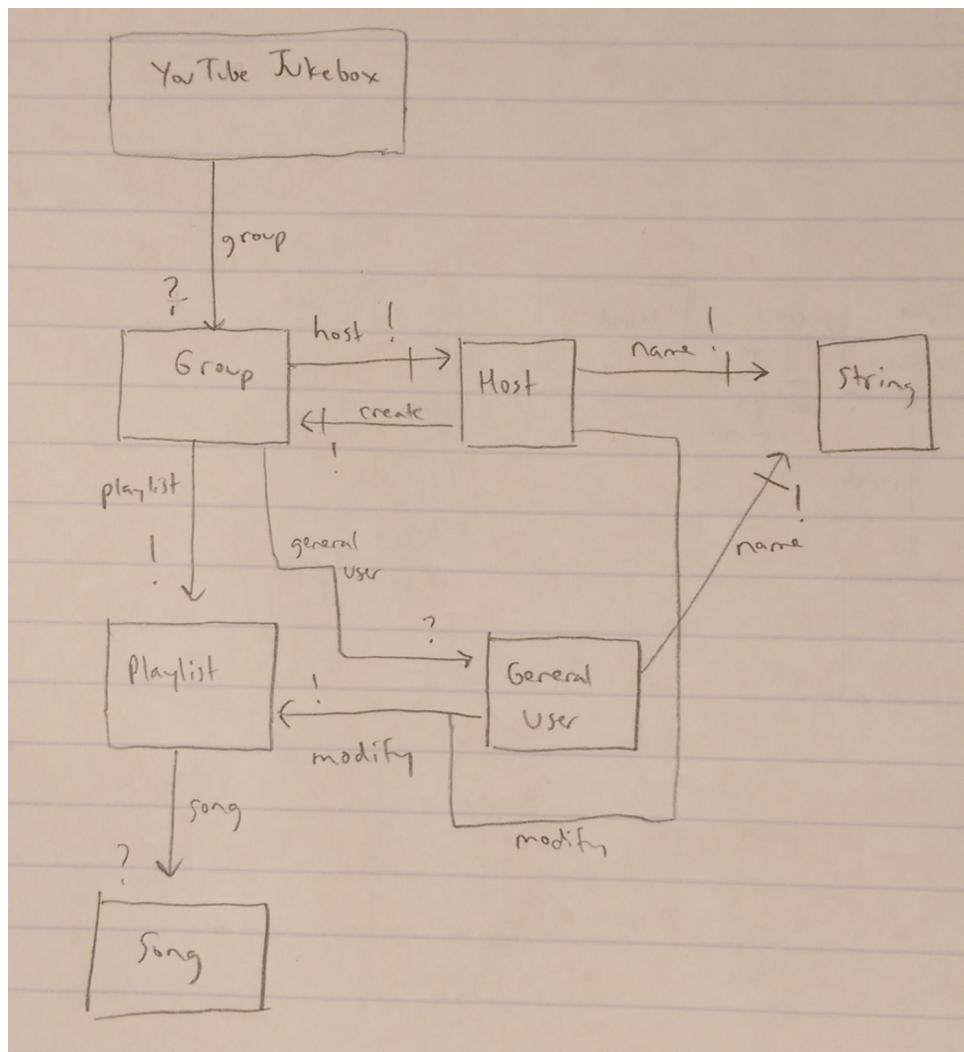
group – a collective term for a playlist, the associated host, and any associated users. This is similar to a chat room on an instant messenger; anyone with access to the group can see its activity (i.e. what music is playing and what music is to be played).

playlist – the current song being played as well as any songs that will be played in the future. The playlist is ordered. Both hosts and general users may modify the playlist.

host – the person who initiates a group on the YouTube Jukebox service. The host may modify the music playlist.

general user – any non-host user who is using the YouTube Jukebox service. The general user may modify the music playlist, but cannot create a group.

Data Model



Design Challenges

- Should we restrict access to groups? If so, how?
- How does a host notify general users that a room has been created?