

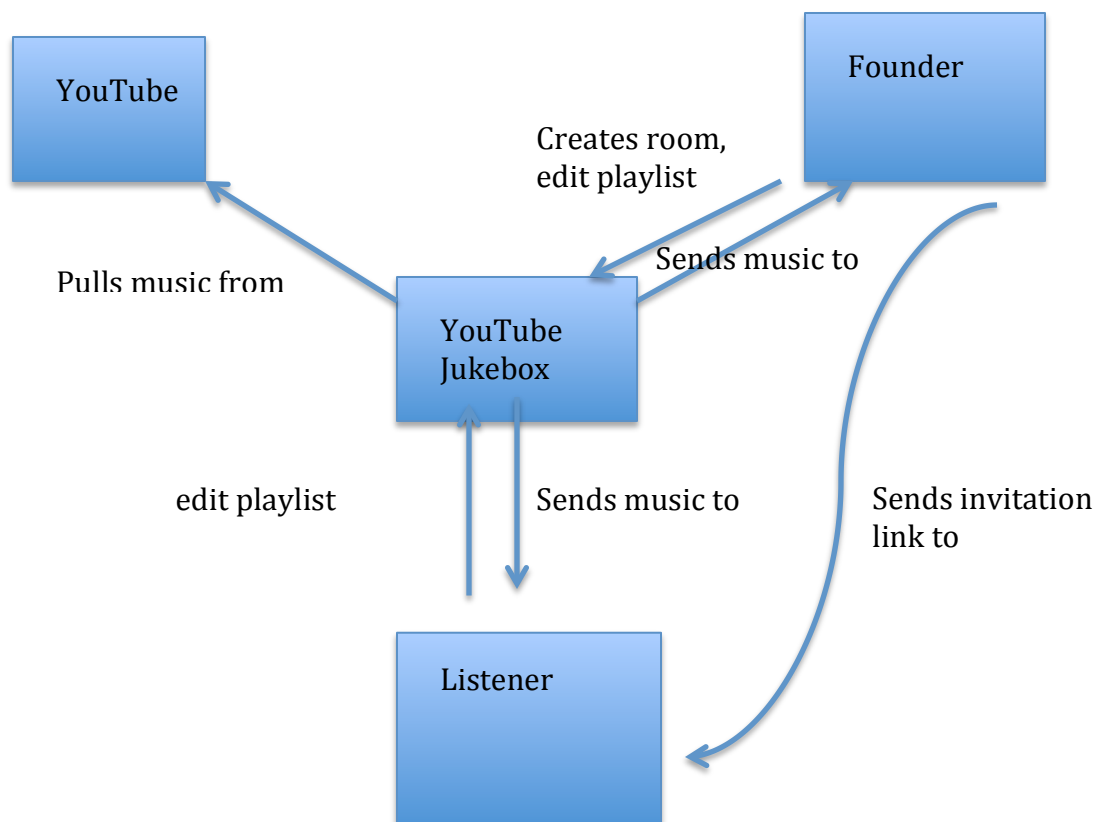
## YouTube Jukebox Design Documentation Draft

### ***Purpose***

The purposes of YouTube Jukebox are:

- **Simply the process of sharing multiple YouTube videos with friends.** There are many good YouTube music videos, are we share with our friends all the time by giving them the link to the videos. But it becomes a problem when someone wants to share multiple videos, or share it with many people. The current “playlist” feature on YouTube is more suitable for creating a playlist that has little change over time, and our service want to highlight the collaboration among the users. Anyone can add music to the playlist instantly.
- **Allow friends who are not in the same location listen to the same music and get to know each other’s music tastes.** As friends, a concrete way to connect with one another through long distance is listening to the same music. How cool it is to listen to the same music all the time with friends that are thousands of miles away? Even when friends are far apart, they can know what kind of music each other is into recently by using YouTube Jukebox.

### ***Context***



## Concepts

**Room** – a virtual space in our application where user can listen to music and edit the playlist collaboratively. Each room has exactly one playlist.

**Playlist** – a list of music from YouTube. Users can play any music from the playlist at anytime, or adding and deleting music from the list. All users who share the playlist should see the same list at any given time.

**Founder** – The user who creates a room. The hosts can share the link of the room to listeners. Founder can play music, or edit the playlist.

**Listener** – Users who are not hosts. Listeners get the link of the room from the host. Listener can also play music or edit the playlist.

**User** – Someone who uses YouTube Jukebox service. Users are uniquely identified by their username and each user is required to sign up and log in in order to use the service.

## Data Model

