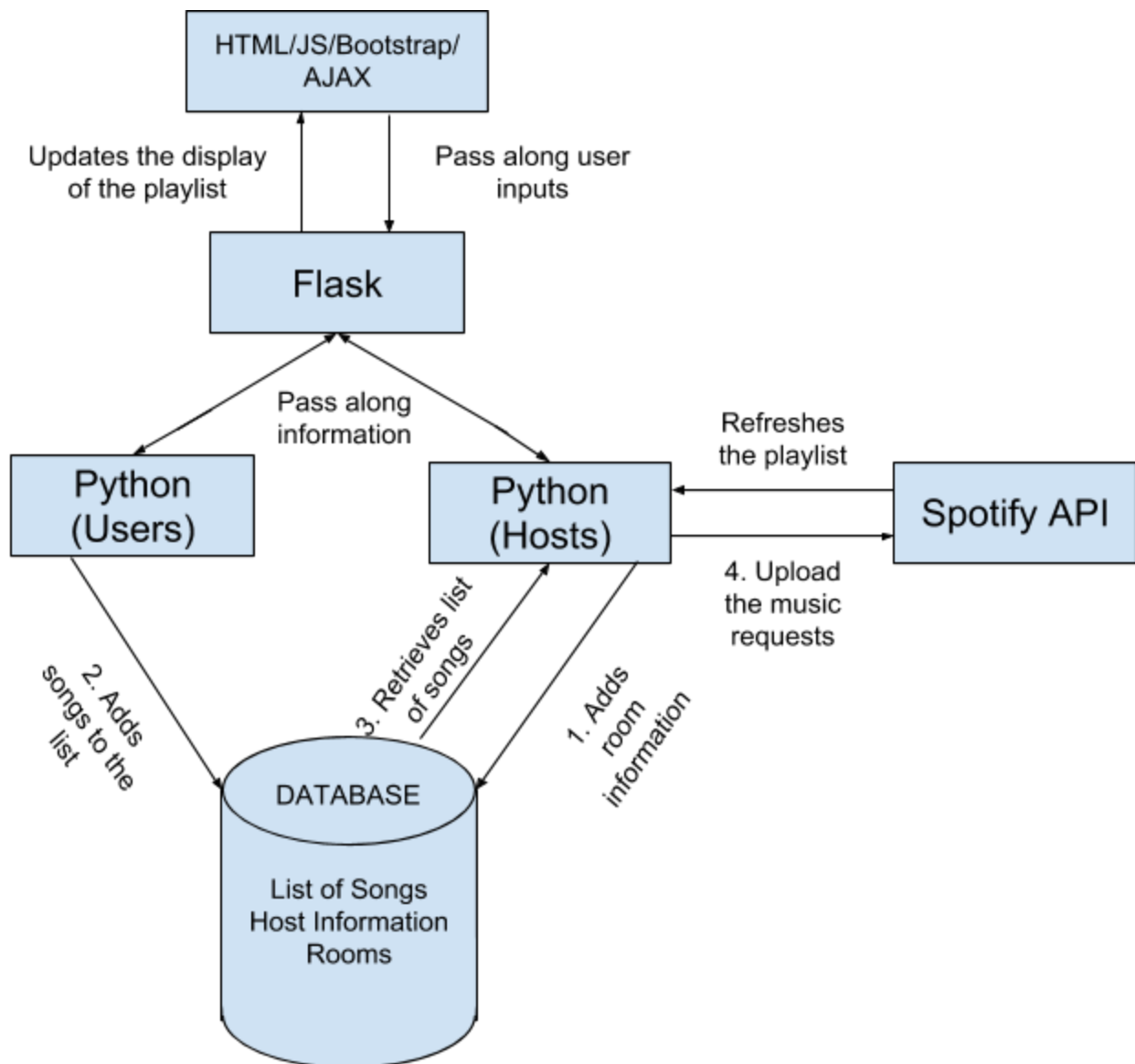# *Jimmy Jams* Design Document

By xx4: Shannon Lau (PM), Tiffany Moi, Joyce Wu, and Helen Ye

I.   Summary

Jimmy Jams is a web application that allows people to request music in real time. Hosts of a party can create a "music room" with a corresponding name and key. After inputting the music room credentials, a user can enter the room and input a song, which is added to the playlist queue via the Spotify API. The host of the room will receive a hyperlink to the Spotify playlist, playable from any device.
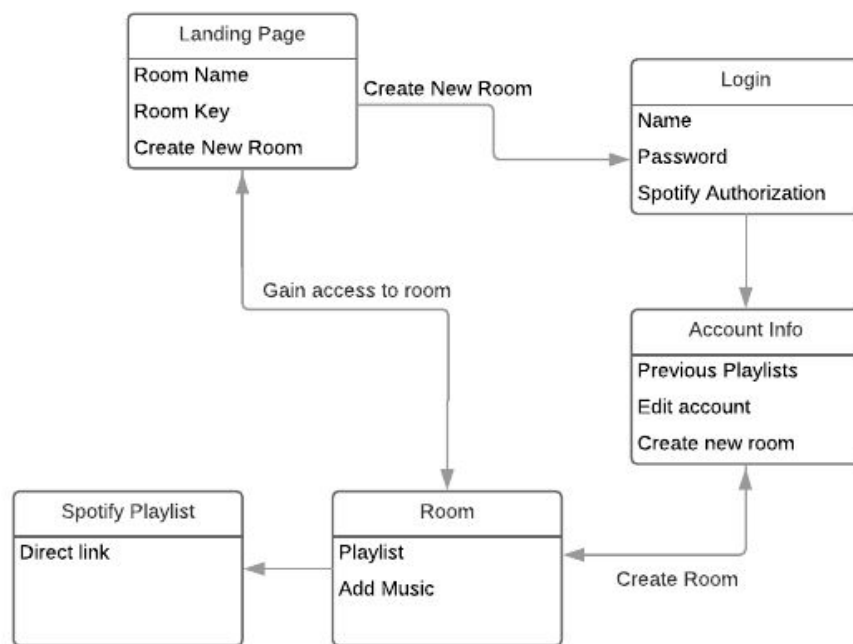
II.   Components

III. **How It Works**

1. Host sets up a room (room name + key)
   a. Signs into account on Spotify to establish the connection to the API
   b. Personally distributes the special key to the members of the music room
2. People in the music room start adding songs to the playlist
   a. Requests will be aggregated in the database
3. Host account will auto refresh constantly to retrieve the songs from the database as they are added
4. Host account will take these songs and push it onto the Spotify playlist using the host's credentials, which were entered in at step 1

IV. **Sitemap**

V. **Database Schema (SQLite Database)**

Table: *hosts*

Standard Fields:

username (str) | fname (str) | lname (str) | hashed_password (str) | spotify_key (str)

● After host connects Spotify account to Jimmy Jams, the Spotify API returns a key that allows the program to gain access to the host's account for long-term use

Table: *rooms*

Standard Fields:

name (str) | key (str) | host_username (str) | songs (str)

- Songs will be a string organized in comma separated values

VI.   Roles

- Shannon
  - Project Manager
  - Front-end: create simplistic + intuitive web page with Bootstrap
    - Options for both hosts and contributors
- Tiffany
  - Database interaction, set up SQL database and tables
  - Create accessor and mutator functions for data
- Joyce
  - Spotify API Interaction
    - Make playlist modification requests, adding songs to the queue of the appropriate playlist
- Helen
  - Spotify API interaction: Authorize users, allowing modification of playlists from our app on their behalf