

## ASKDj Server commands

user string: persistent third party (e.g. Google account hash)

session ID: cleared at logout (e.g. session cookie)

Data types are indicated in <>. Optional fields are enclosed in []. All undefined key-value pairs are probably ignored by the server, but don't use them!

You must store all cookies the server sends. We assume the user can handle cookies.

- create room (/room/create)
  - POST parameters:
    - "name": <string (max 512 chars)>
    - ["location": <string (max 512)>]
    - ["latitude": <float>
    - "longitude": <float>] (need both or none of lat and long to validate)
    - ["description": <string>]
    - ["password": <string (max 512)>]
  - return:
    - json: {"roomId": <string>}
    - create cookie information
    - 400 error if something is wrong
- get rooms (/room/list)
  - GET parameters:
    - ["q" (search query): <string>]
    - [(search center)
    - "latitude": <float>,
    - "longitude": <float> (all or nothing required)]
    - ["maxResults": <integer>]; ignores if not positive
  - return:
    - JSON
    - {rooms: [{
      - "roomId": <string>
      - "name": <string>
      - "size": <integer>
      - "hasPassword": <boolean>
      - ["location": <string>]
      - ["coords": {"latitude": <float>, "longitude": <float>}]
      - ["description": <string>]
      - } (repeat for total number of rooms)
    - ]}
- join room (/room/join)

- POST parameters:
  - "roomId": <string>
  - "password": <string>
- return:
  - blank response? or {}?
  - create cookie information
  - 401 error if room has password and wrong password given
  - 400 error if something else is wrong
- room info (/room/info)
  - GET/POST: no parameters, requires user to be in a room
  - return JSON: {
    - "roomId": <string>
    - "name": <string>
    - "size": <integer>
    - "hasPassword": <boolean>
    - ["location": <string>]
    - ["coords": {"latitude": <float>, "longitude": <float>}]
    - ["description": <string>]}
- leave room (/room/leave)
  - **note:** if user is last DJ in the room, also deletes the room
    - deletes user songs from pool
  - POST (DELETE?) parameters:
    - "roomId": <string>
  - return:
    - blank response? or {}?
    - wipe cookie information
    - 400 error if something is wrong
- ~~DJ-remove from room? [session ID of DJ, session ID to kick, room ID]~~
- add songs to pool [/pool/add]
  - POST parameters:
    - \*\* Dictionary of "songs" with a value of a list of dictionaries with the following..
    - "title": <string (max 1024 chars)>
    - ["artist": <string (max 1024)>]
    - ["localUrl": <string>]
      - (a local device-dependent identifier, which will uniquely identify the song)
    - ["spotifyUrl": <string>]
    - ["youtubeUrl": <string>]
  - return:
    - empty response
      - {"Warning": <string>} if non-fatal error
    - cookie with roomId



- return: {} or error
    - **may give a 423 error if too many simultaneous requests**
- DJ-revise song queue (up next) [/queue/addmany]
  - POST parameters: (json)
    - [{"doClear": <boolean> (default false)]
      - if true, makes the current queue the given list
      - if false, appends the given list to the current queue
    - "songs": (list of) [
      - {"songKey": <integer>}
  - return: {} or error
    - for all songs that have more entries in the queue than before, remove all votes for that song
    - **may give a 423 error if too many simultaneous requests**
- get up next list (/queue/list)
  - cookie required, no parameters
  - return:
    - json: {"queue": ordered list of
      - {"songKey": <integer> (server identifier for a song)
      - "title": <string> (human-readable song title)
      - ["artist": <string> (if exists)]
      - ["owner": <string>]
      - ["localUrl": <string>]
      - [{"spotifyUrl": <string>}]}
- remove next song in queue (/queue/pop)
  - cookie required, no parameters
  - return:
    - json: (one entry)
      - {"songKey": <integer>}
      - "title": <string>
      - ["artist": <string> (if exists)]
      - ["owner": <string>]
      - ["localUrl": <string>]
      - [{"spotifyUrl": <string>}]}
- set now playing list (/nowplaying/set)
  - GET/POST parameters:
    - "songKey": <string>
  - return: {} or error
- get now playing list (/nowplaying/get)
  - cookie required, no parameters
  - return:
    - json: (one entry)
      - {"songKey": <integer>}
      - "title": <string>

- [{"artist": <string> (if exists)]
- [{"owner": <string>}]
- [{"localUrl": <string>}]
- [{"spotifyUrl": <string>}]

song format: polymorphic (one of below)

- device song UUID (DJ's song)
- user session ID, device song UUID
- YouTube URL
- Spotify URL
- etc.