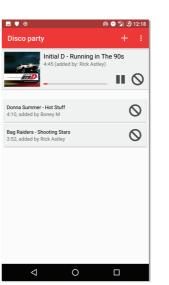


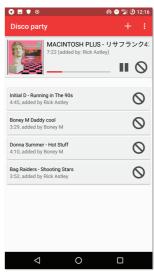
While kompose is kept reasonably simple to allow for an intuitive UI, to get the technicalities just right is always a challenge. Some of the more interesting ones will be adressed here

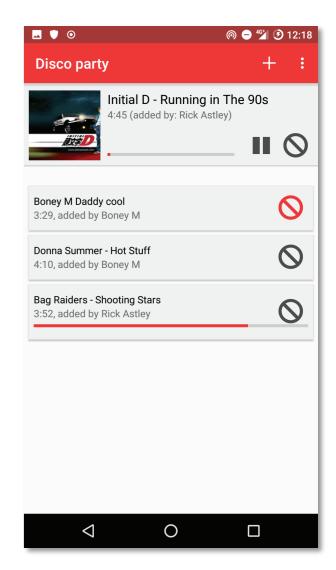
```
protocol
      "type": "SESSION_UPDATE",
      "error_message": null,
                                                                 at the heart of the application
      "sender_uuid": "981e4fa1-9f26-470e-8d78-1d3095c1f7f5",
4
      "sender username": "Boney M",
                                                                 a special protocol makes sure
6 =
      "session":
                                                                 all actions performed by clients
        "uuid": "e8d75a93-3b7c-4132-ba2e-82841be5fe1c",
        "creation_date_time": "2017-12-13T16:16:37.428Z",
                                                                 which impact the other participants
8
        "host_uuid": "981e4fa1-9f26-470e-8d78-1d3095c1f7f5",
                                                                 can be broadcast efficiently to the
10
        "session_name": "Disco Party",
11
        "session_status": "ACTIVE",
                                                                 network
        "songs": [
12 -
13 🕶
14
            "uuid": "fd3ee34f-16da-4682-add6-d1f943851d80",
            "proposed_by_client_uuid": "981e4fa1-9f26-470e-8d78-1d3095c1f7f5",
15
            "song status": "REQUESTED"
16
            "download_status": "FINISHED"
17
18
            "source_url": "https://www.youtube.com/watch?v=T5emcbg_wZk",
19
20
            "title": "Tanita Tikaram - Twist In My Sobriety",
21
            "length_in_seconds": 291,
22
            "download_url": "https://r1---sn-nfpuji-1gil.googlevideo.com/videoplayback?mt=1513181799",
            "thumbnail_url": "http://i.ytimg.com/vi/T5emcbg_wZk/hqdefault.jpg",
23
24 ₹
            "down_votes": [
25 =
26
                "uuid": "29224d11-2e16-789f-1ff3-12418426f7f5"
27
                "client_uuid": "981e4fa1-9f26-470e-8d78-1d3095c1f7f5"
28
29
30
31
32 ₹
        "clients": [
33 🕶
            "uuid": "981e4fa1-9f26-470e-8d78-1d3095c1f7f5",
34
35
           "name": "Boney M",
36
            "is_active": true
37
38 🕶
39
            "uuid": "70998773-4dcd-4411-80f8-85c0a4f90832",
40
            "name": "Rick Astley",
41
            "is active": true
42
43
44
45 🕶
      "song_details": {
46
        "uuid": "3fa6aea0-5ebd-4376-b189-d60dfda35099",
47
        "proposed_by_client_uuid": "981e4fa1-9f26-470e-8d78-1d3095c1f7f5",
        "song_status": "REQUESTED",
48
49
        "download_status": "NOT_STARTED";
50
        "order": 1.
51
        "source_url": "https://www.youtube.com/watch?v=c1idAsPYfd4",
52
        "title": "EPICA - Unchain Utopia (OFFICIAL LYRIC VIDEO)",
53
        "length_in_seconds": 286,
54
        "download_url": "https://r2---sn-nfpuji-1gil.googlevideo.com/videoplayback?mt=1513181287",
55
        "thumbnail_url": "http://i.ytimg.com/vi/c1idAsPYfd4/hqdefault.jpg",
56
        "down_votes": []
57
58 }
```

playlist

the playlist prepares the next songs and keeps all participants up to date only on the device of the session owner the song is actually played the owner can also play / pause a song each of the participants can vote on a specific song to be skipped from youtube the thumbnail and other basic data of the song is extracted







0

create new session

upon creating the session, it is broadcast using Network Service Discovery as provided by Android



join using NSD

all active session in the network are found with NSD, a library is used to support API versions which are even lower than 7

join manually

using the port and IP of the owner of the party, one can also join directly without using NSD

