Database documentation / cache

Cache: This project allows the user to either upload images or use their webcam to upload a snapshot to create a playlist based on emotions recognized through Microsoft Azure's Emotion API. Then a track is selected from Spotify and added to the associated account. In our cache, we store all the attributes from the selected track, other than the song itself, on our Mongo database to be referenced quickly before hitting Spotify's API. Attributes stored include song title, artist, album, song ID, album cover, and track length. We also cache the user's uploaded images and the emotions recognized from the image in the database to be quickly accessed as well. The Spotify API is called whenever the user wants to play the actual track from the list of tracks that will appear on the HISTORY section of the tab.

Data Documentation:

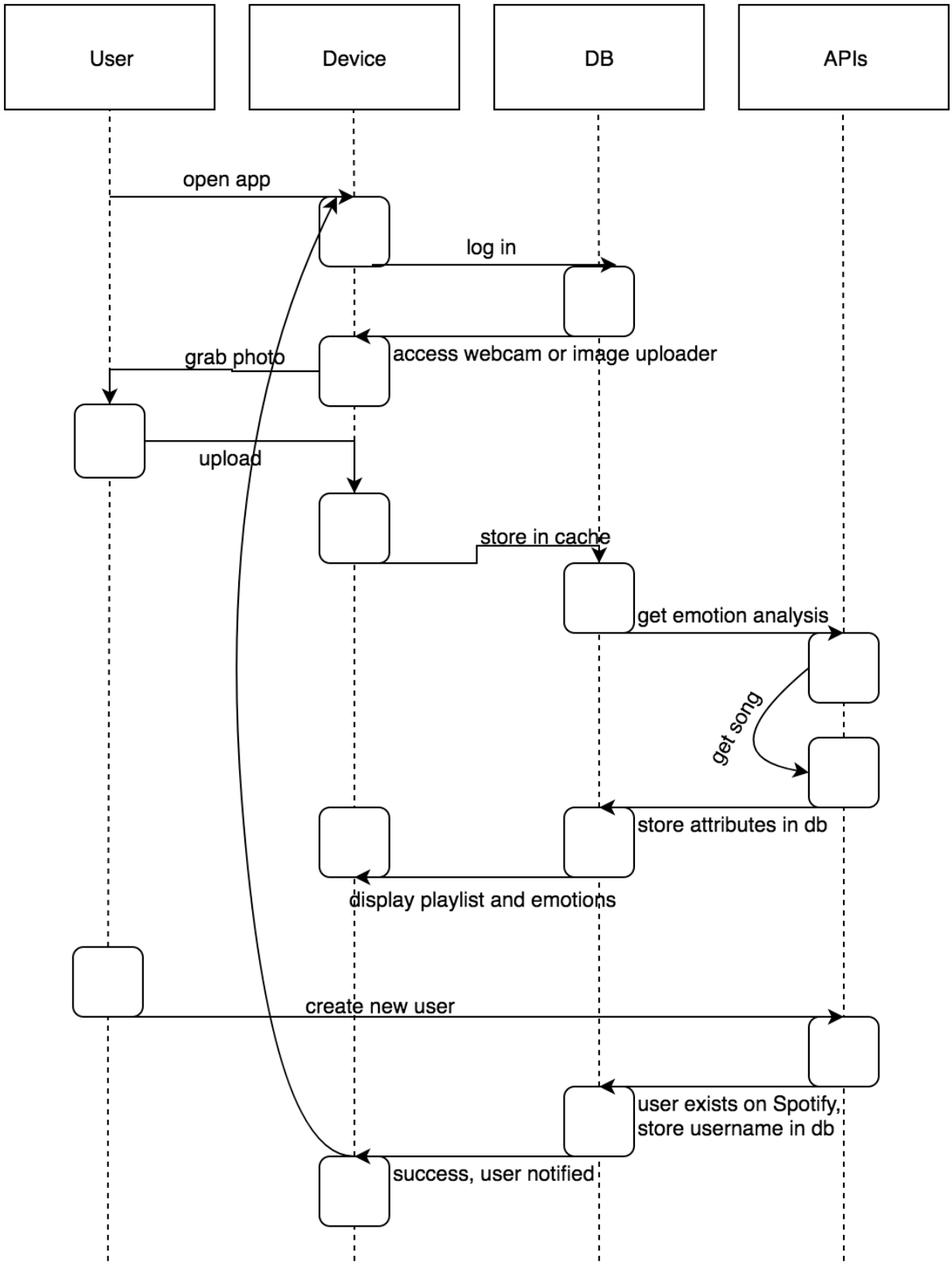
Object with song attributes stored in cache:

```
[{
    "Uploaded-img" : "./path/to/img.jpg",
    "Attached-emotions" : [{ // this is only subset of emotions
          "Happiness" : ".05", "fear" : ".009", "anger" : ".9"
     "artist": [{           // attributes of song selected
          "name": "Carly Rae Jepsen"
          "Artist href":
     "https://api.spotify.com/v1/artists/sample",
               }],
     "image": [{
          "height": 300,
          "width": 300"
          "url": "https://i.scdn.co/image/sample"
              }],
     "album": [{
          "Name": "Cut To The Feeling",
          "Album href":
     "https://open.spotify.com/artist/6sFIWsNpZYqfjUpaCgueju"
```

```
                }],
     "Play button" : "https://open.spotify.com/play/sample"
     }] // this url will be called to get actual song on click

Object when passing image to API's:
[{
     \\ required
     "Url" : "https://westus.api.cognitive.microsoft.com/face/v1.0/detect",
     "Qs" : { "returnFaceAttributes" : "emotion" }, \\ required
     "Headers" : {
          "Conent-type" : "application/json" \\required
          "Ocp-Apim-Subscription-Key" : key }, \\hidden API key
     "Body" : {
          "Url" : "path to uploaded img from webcam or finder"
          //required
          "Json" : "true" //optional
     }
}]
```

Sequence Diagram:


User
Device
DB
APIs
open app
log in
grab photo
access webcam or image uploader
upload
store in cache
get emotion analysis
get song
store attributes in db
display playlist and emotions
create new user
user exists on Spotify,
store username in db
success, user notified