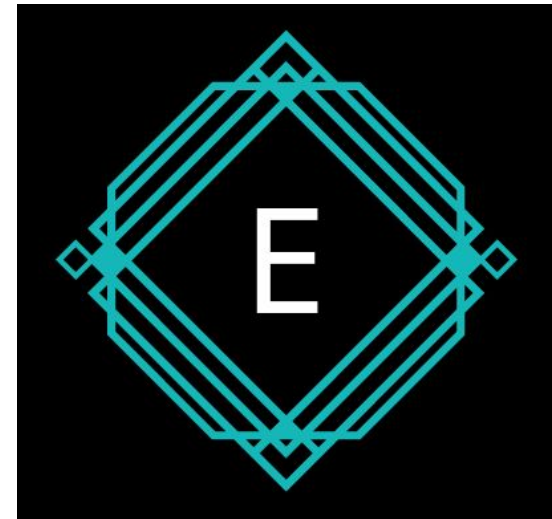


Projet de programmation:

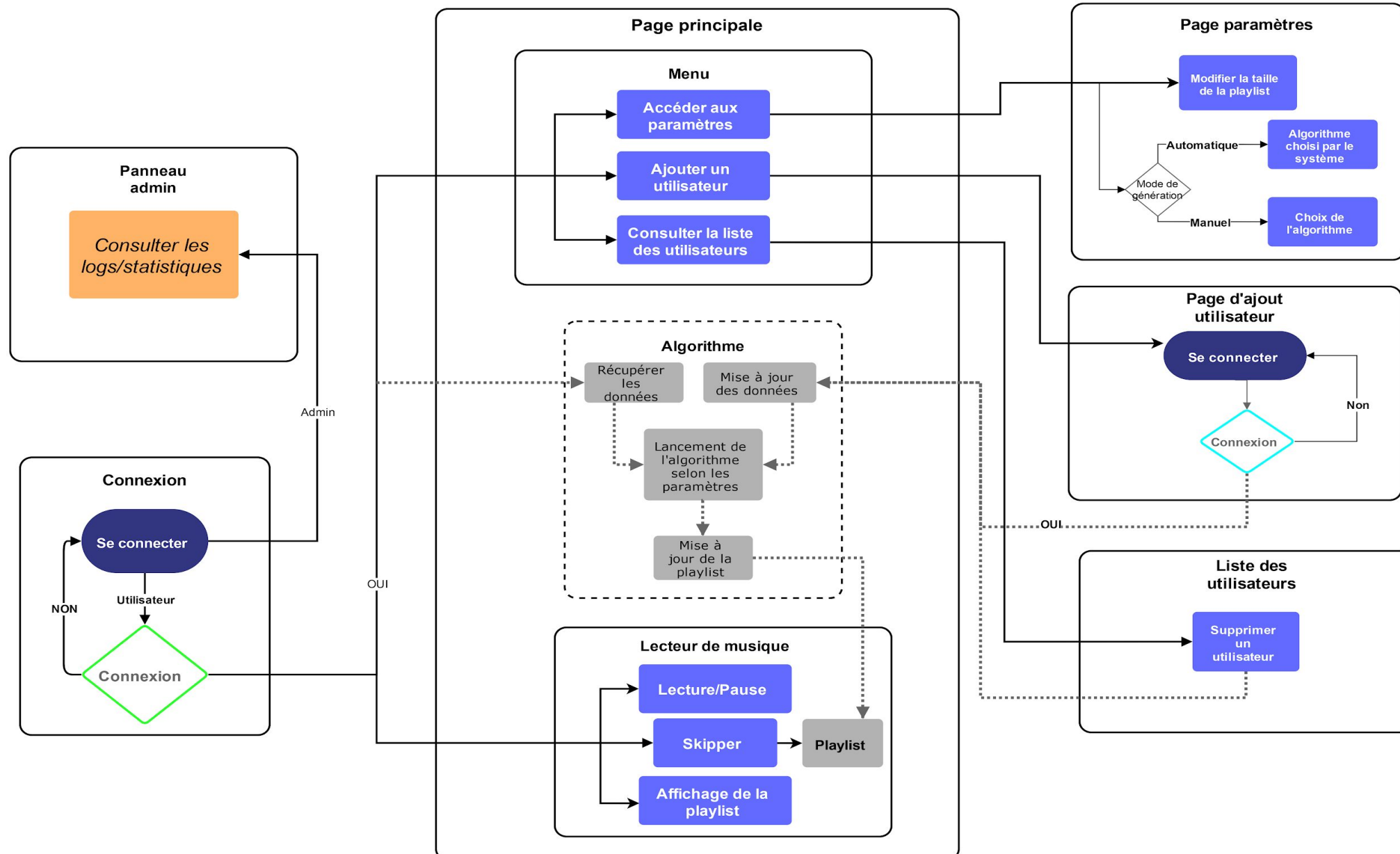
génération de playlist pour un groupe

Sommaire

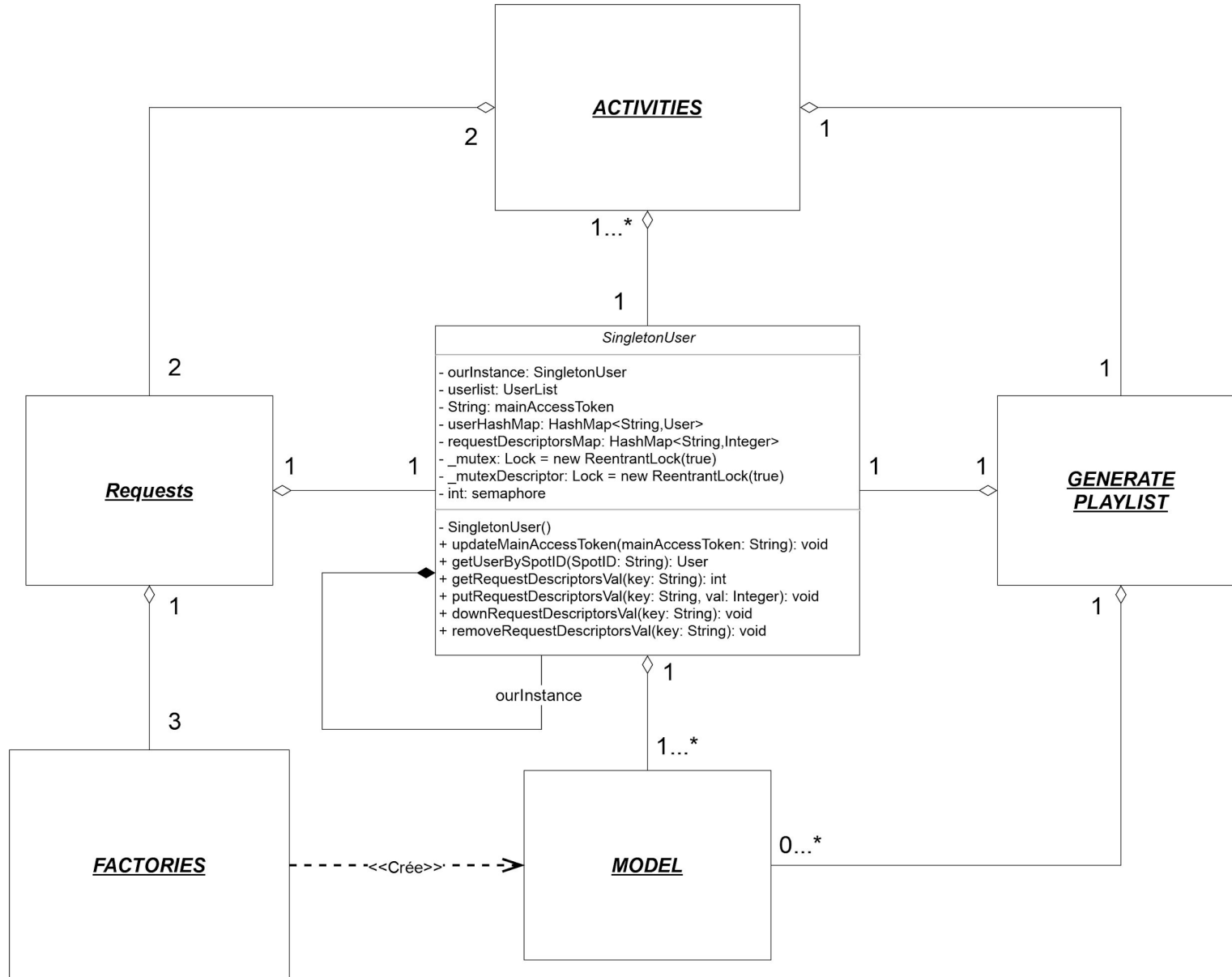
- Fonctionnalités de l'application
- Architecture du projet :
 - . Singleton
 - . Model
 - . Factories
 - . Requests
 - . Activities
- Algorithmes
- Conclusion



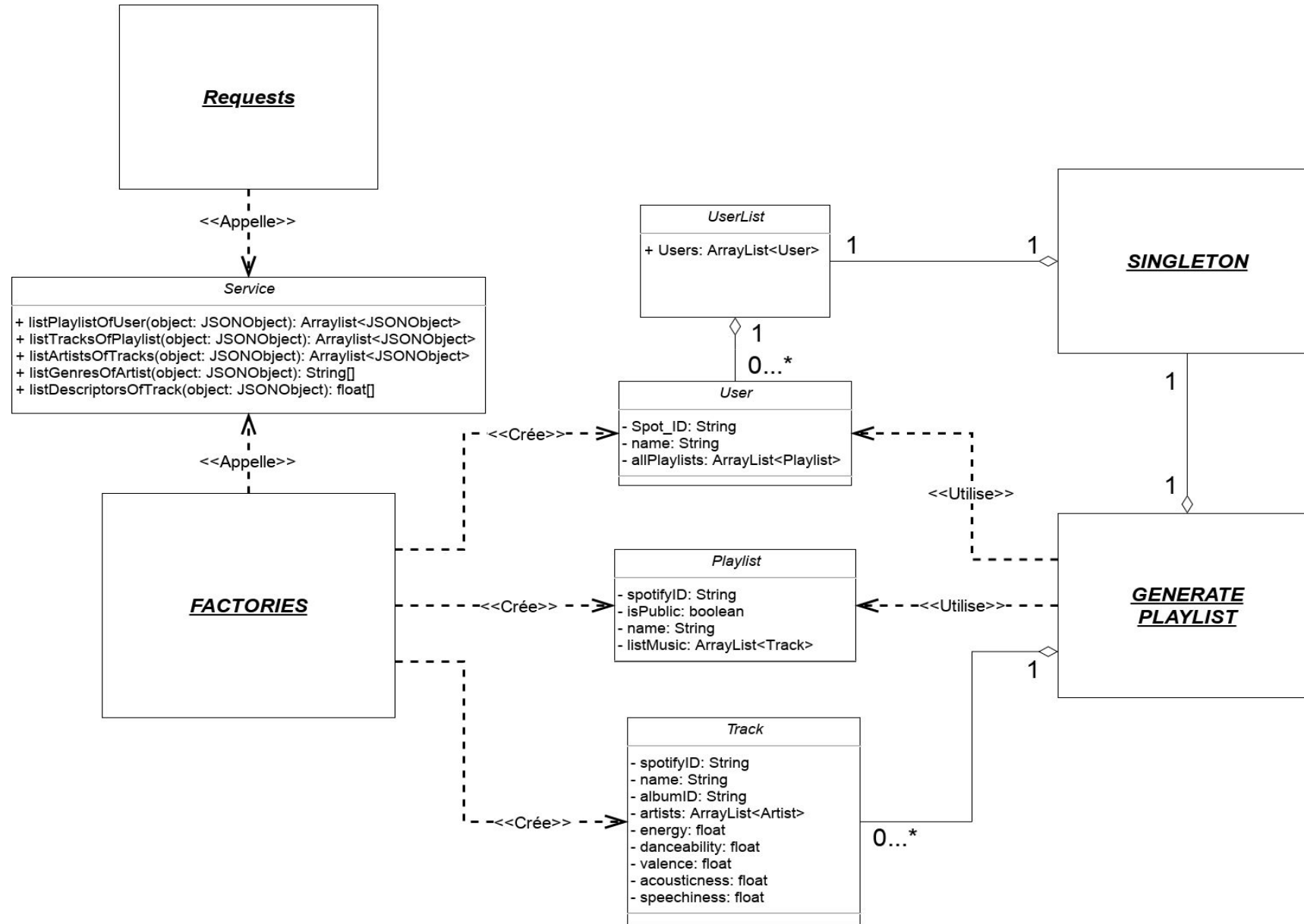
Fonctionnalités de l'application



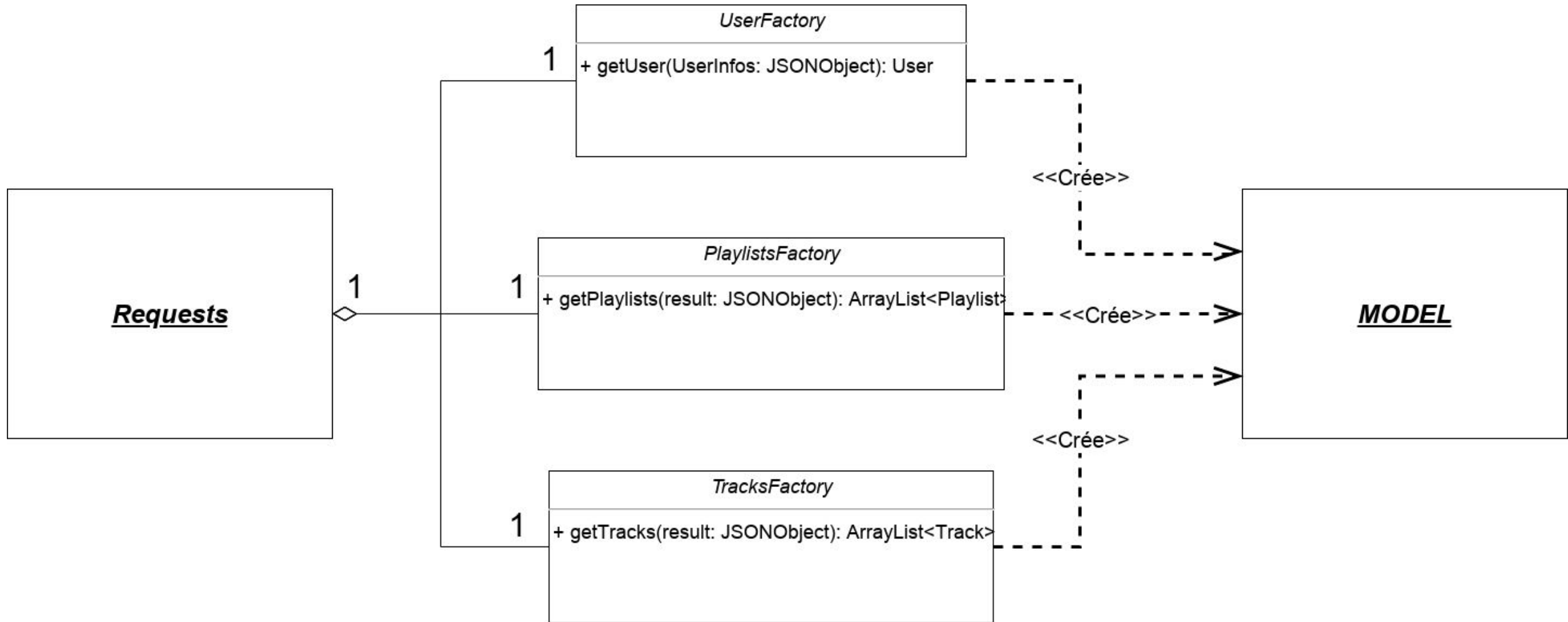
Singleton



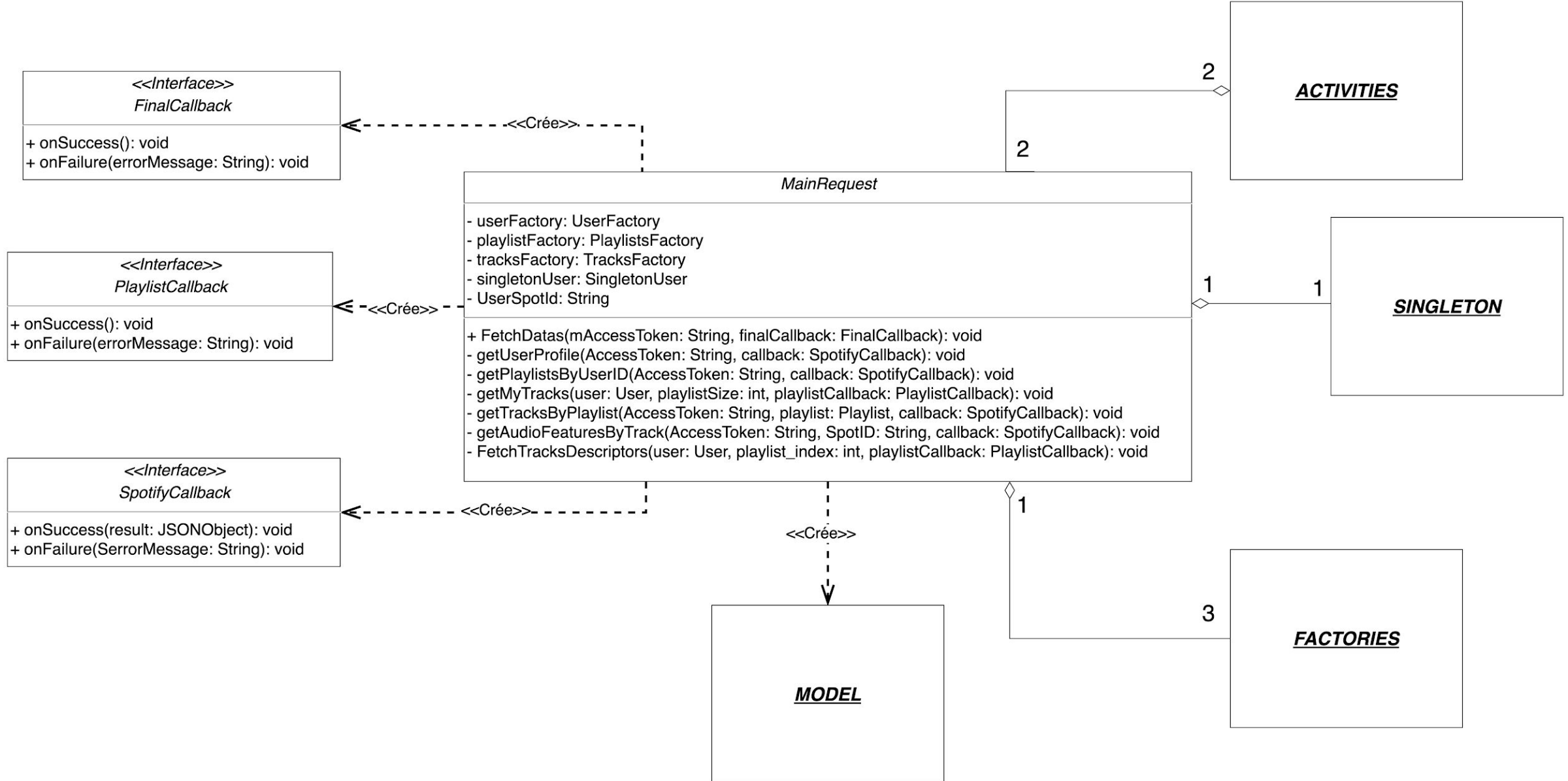
Model



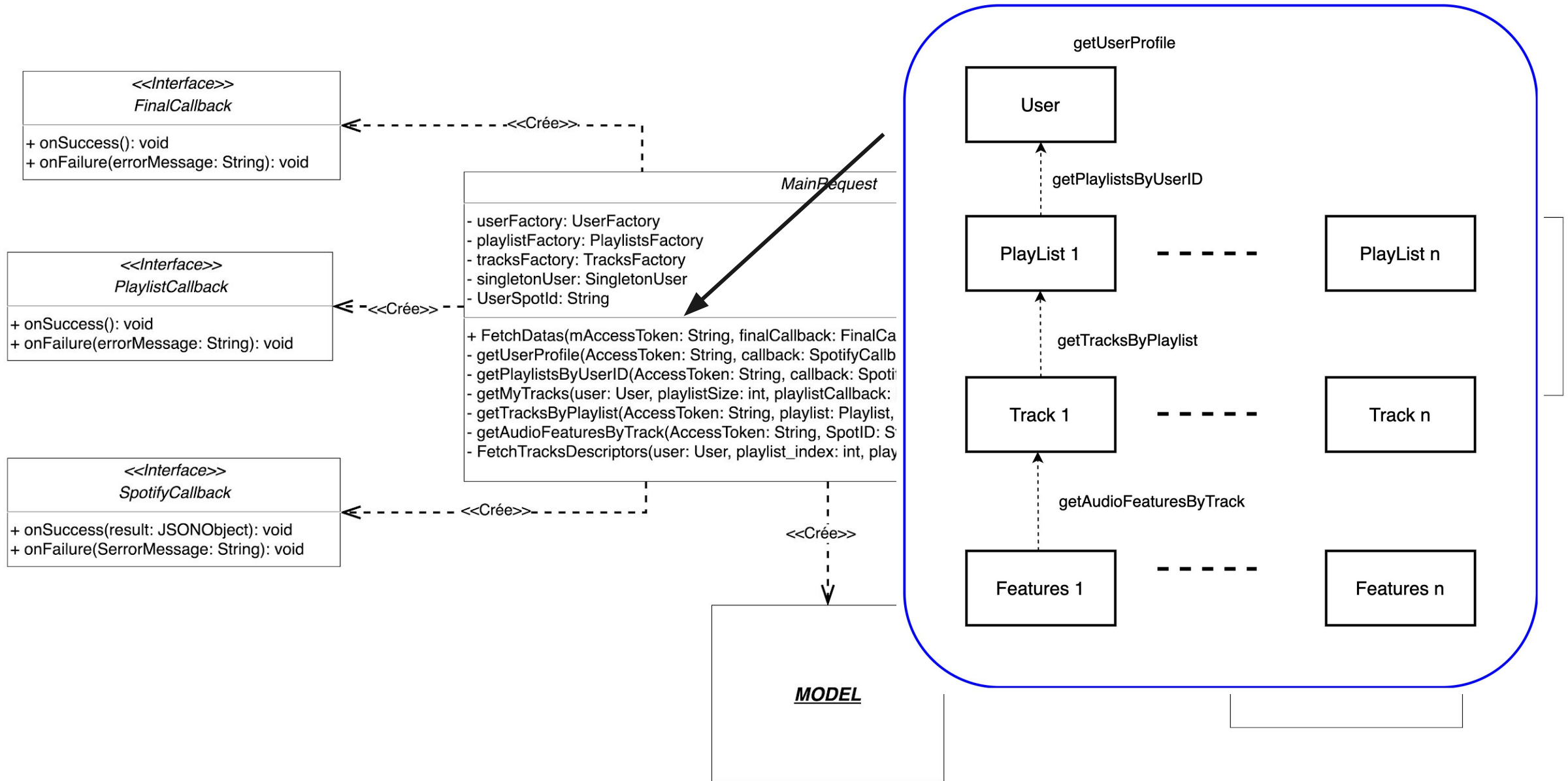
Factories



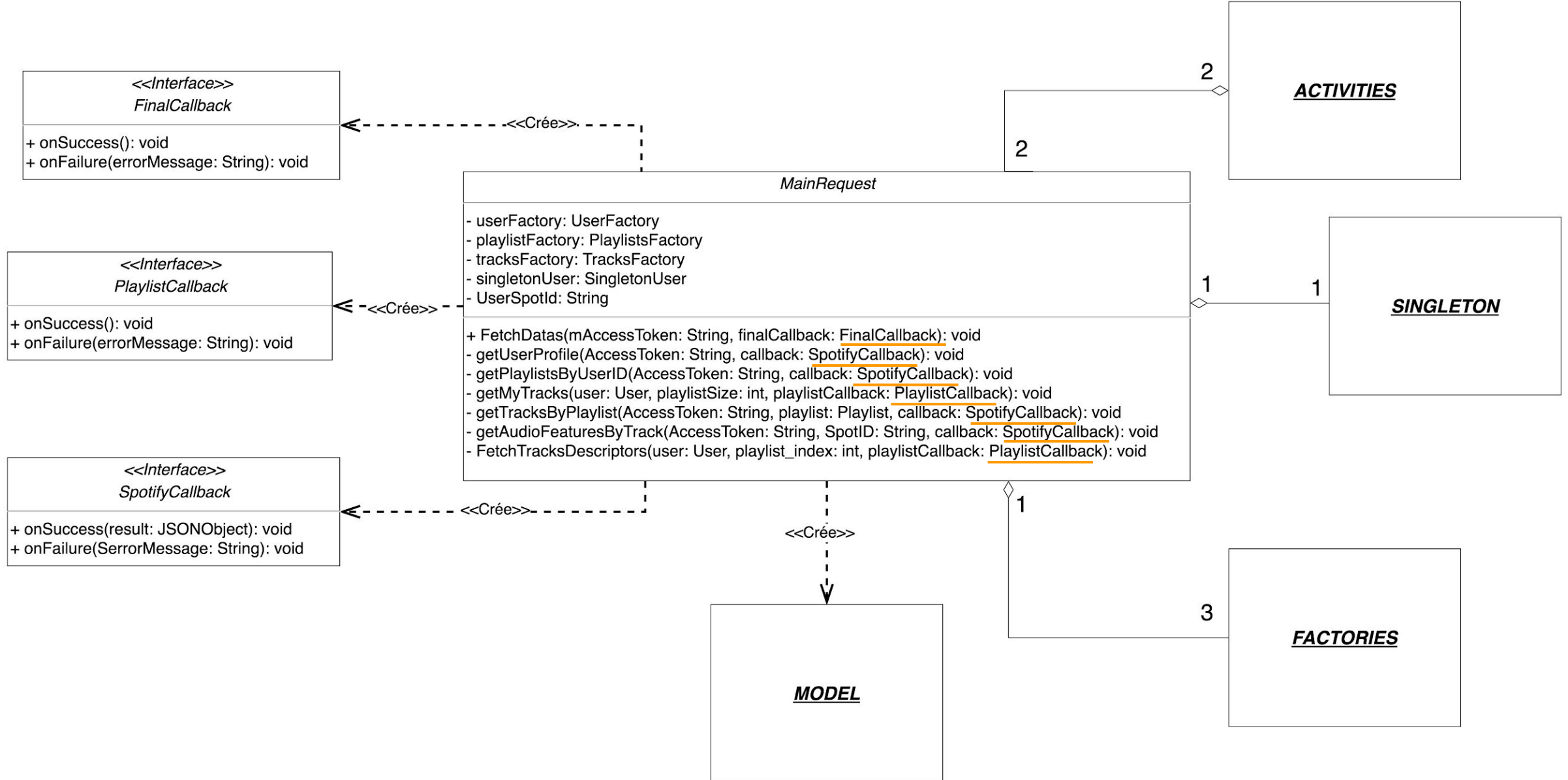
Requests



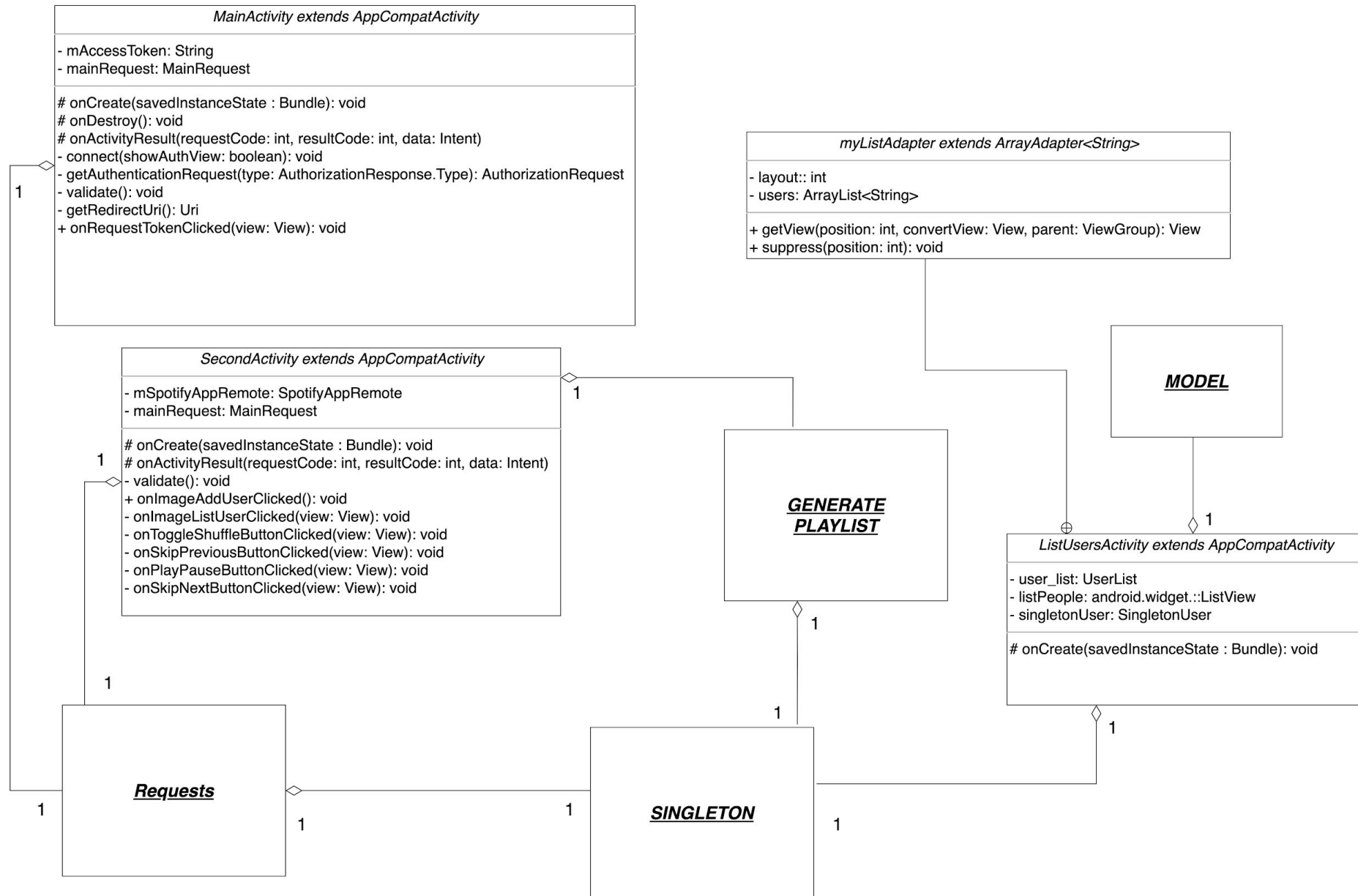
Requests



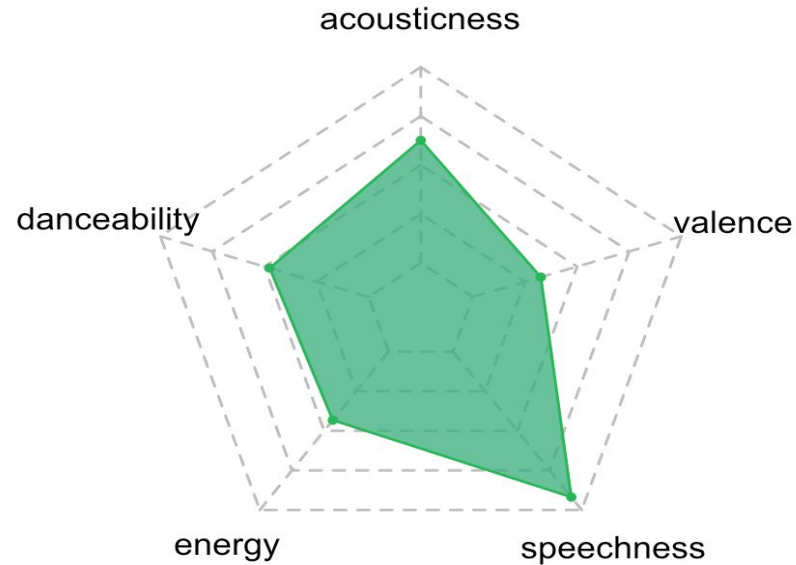
Requests



Activities



Algorithmes



Acoustiness:

A confidence measure from 0.0 to 1.0 of whether the track is acoustic. 1.0 represents high confidence the track is acoustic.

Danceability:

Danceability describes how suitable a track is for dancing based on a combination of musical elements including tempo, rhythm stability, beat strength, and overall regularity. A value of 0.0 is least

Energy :

Energy is a measure from 0.0 to 1.0 and represents a perceptual measure of intensity and activity. Perceptual features contributing to this attribute

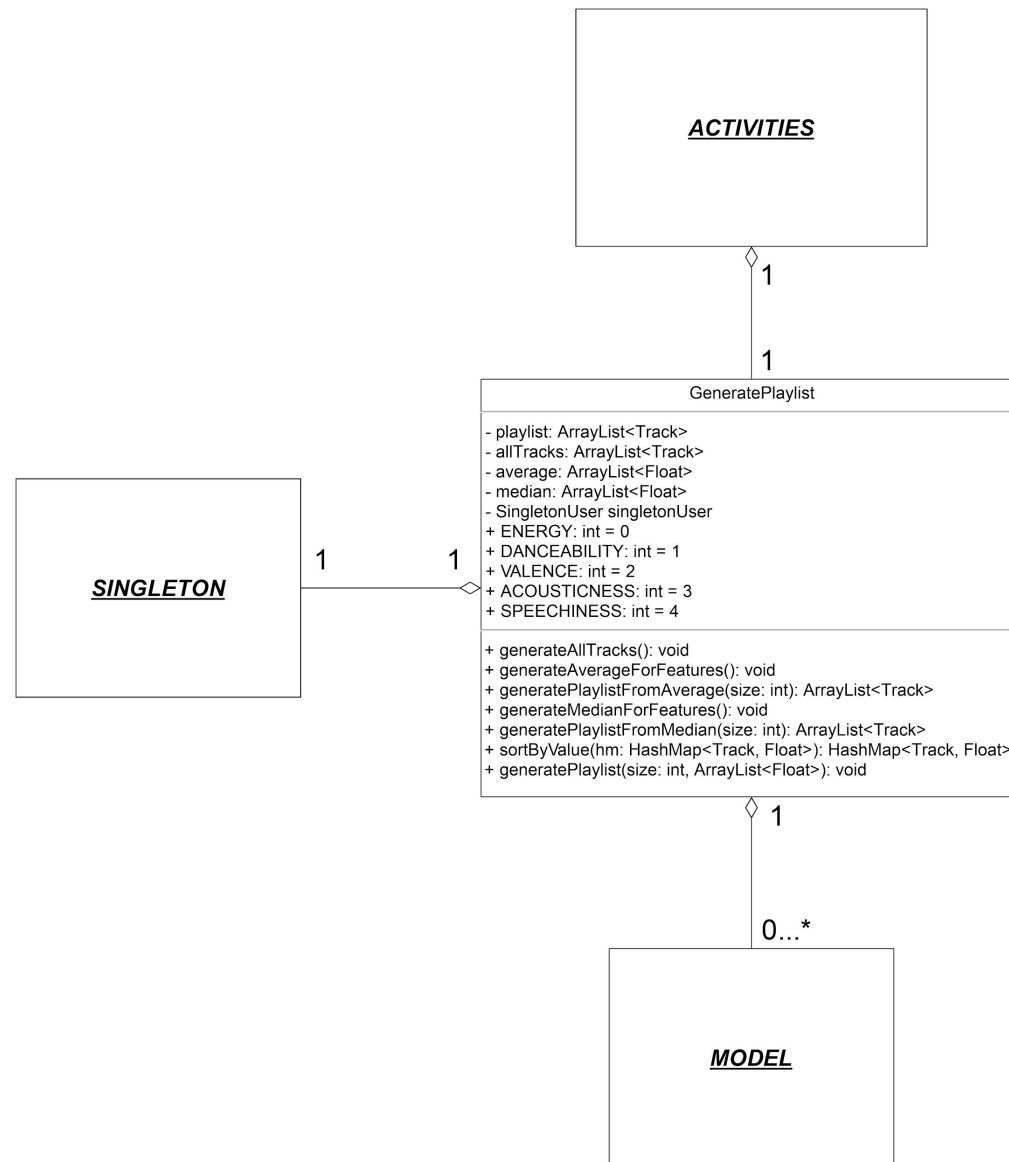
Speechiness:

Speechiness detects the presence of spoken words in a track.
❖ > 0.66: Entirely of spoken word
❖ 0.33 – 0.66: Contain both

Valence:

A measure from 0.0 to 1.0 describing the musical positiveness conveyed by a track. Tracks with high valence sound more positive (e.g. happy, cheerful, euphoric),

Algorithmes



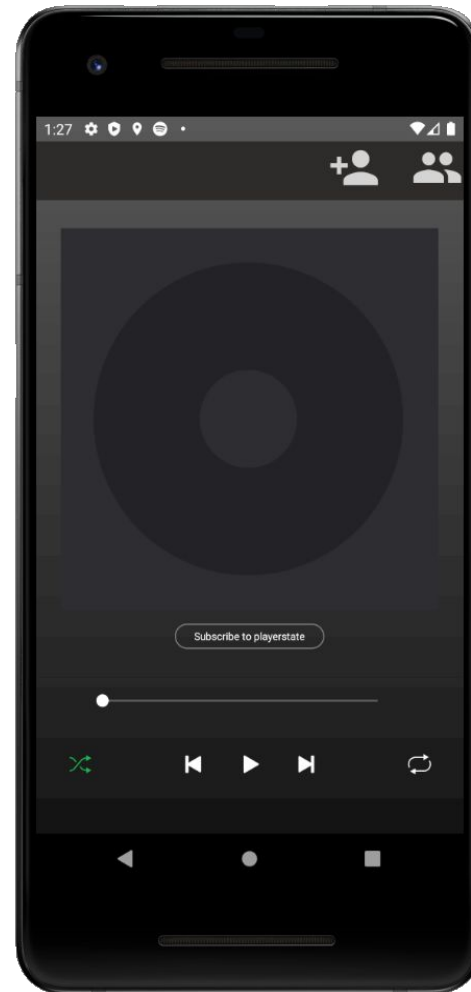
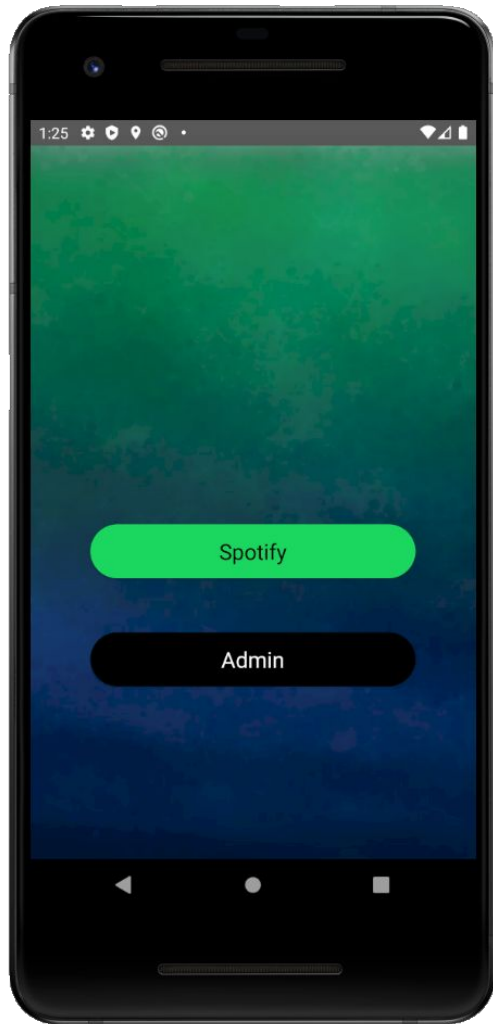
Conclusion

Points à améliorer/rajouter:

- Les algorithmes
- Fonctionnalités administrateur
- Récupérations de playlist via Deezer
- Étudier le comportement des utilisateurs (passe un morceau, aime la playlist ...)

***Merci pour votre
attention.***

Avancement



Algorithmes

```
D/testplaylist: Track 0 : Soleil noir  
D/testplaylist: Track 1 : Ciel noir  
D/testplaylist: Track 2 : Always Remember Us This Way  
D/testplaylist: Track 3 : Eye of the Tiger  
D/testplaylist: Track 4 : Kid  
D/testplaylist: Track 5 : Oh Mama  
D/testplaylist: Track 6 : Côte Ouest  
D/testplaylist: Track 7 : Tainted Love  
D/testplaylist: Track 8 : Lullaby  
D/testplaylist: Track 9 : bad guy
```

Playlist générée par l'algorithme utilisant les moyennes des descripteurs

```
D/testplaylist: Track 0 : Eye of the Tiger  
D/testplaylist: Track 1 : Birds  
D/testplaylist: Track 2 : Lullaby  
D/testplaylist: Track 3 : Kid  
D/testplaylist: Track 4 : Oh Mama  
D/testplaylist: Track 5 : Always Remember Us This Way  
D/testplaylist: Track 6 : I Love Rock 'n' Roll  
D/testplaylist: Track 7 : Love On The Brain  
D/testplaylist: Track 8 : Soleil noir  
D/testplaylist: Track 9 : No Woman No Cry
```

Playlist générée par l'algorithme utilisant les médianes des descripteurs