Music Similarity Data Model

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Music Similarity

As part of final project, we create music recommendation system, for Tamaringa

Tamringa- platform that creates personalized stimulation and hearing for Alzheimer's patients and thus improves theur condition

Data base should contain…

Information about tracks:

Track name

Track id (MusicBrantz)

Artist name

Artist id (MusicBrantz)

Area

Year

Popularity

Tags[]

Information about users:

User id

User name

Origin (area)

Year of birth

Id of tracks that he like/know[]

Tags of tracks that he like/knoe[]

The information entered the Database

Xml/json (by year, by area) that contain data*

*(popularity from YouTube/Last.fm)

The information that coming out from Database

Tracks by year and by area with high : popularity

GetTrackByYearByArea(year, area)

Tracks by tags:

getTrackByTags(Tag)

What we thought so far…

Track
{
_track_id:
mbid:
Name:
Artist:
Artist_id:
Tags: {:<objectId4>,…}
Popolarty:
YouTube:
}

Option 1:

Collection: MusicBrantz
{
{<track1>}
{<track2>}
…

}

Option 2:

Collection Year1{
{<track1>}
{<track2>}
…
}

Collection Year2{
{<track1>}
{<track2>}
…
}

Collection Year3{
{<track1>}
{<track2>}
…
}

User:

User
{
User id
User name
Origin (area)
Year of birth
Id of tracks that he like/know[]
Tags of tracks that he like/knoe[]
}

Collection: Users

{

{<user1>}

{<user2>}

….

}