

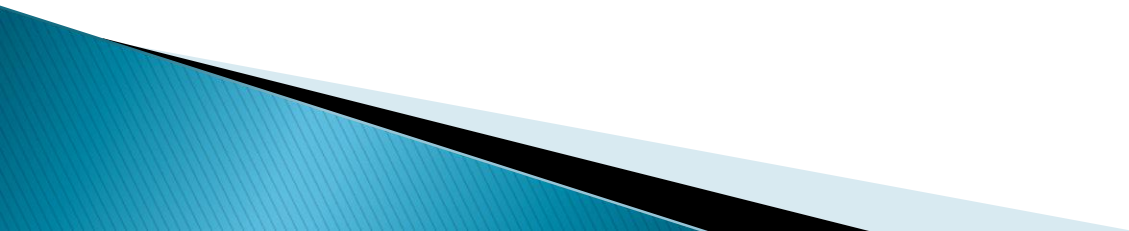
# Music Similarity Data Model

Avi Cohen  
Sagi marciano

# 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 their 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>}

...

}

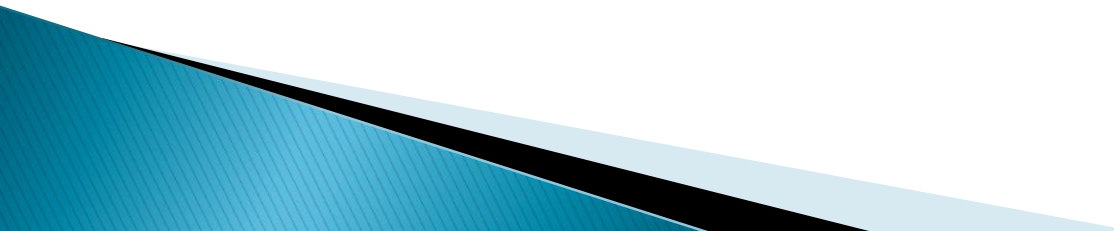


# Option 2:

```
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>}  
  ....  
}
```