A Content-based System for Music Recommendation and Visualization of User Preferences Working on Semantic Notions



http://musrec.upf.edu/avatar/ http://mtg.upf.edu/project/musicalavatar

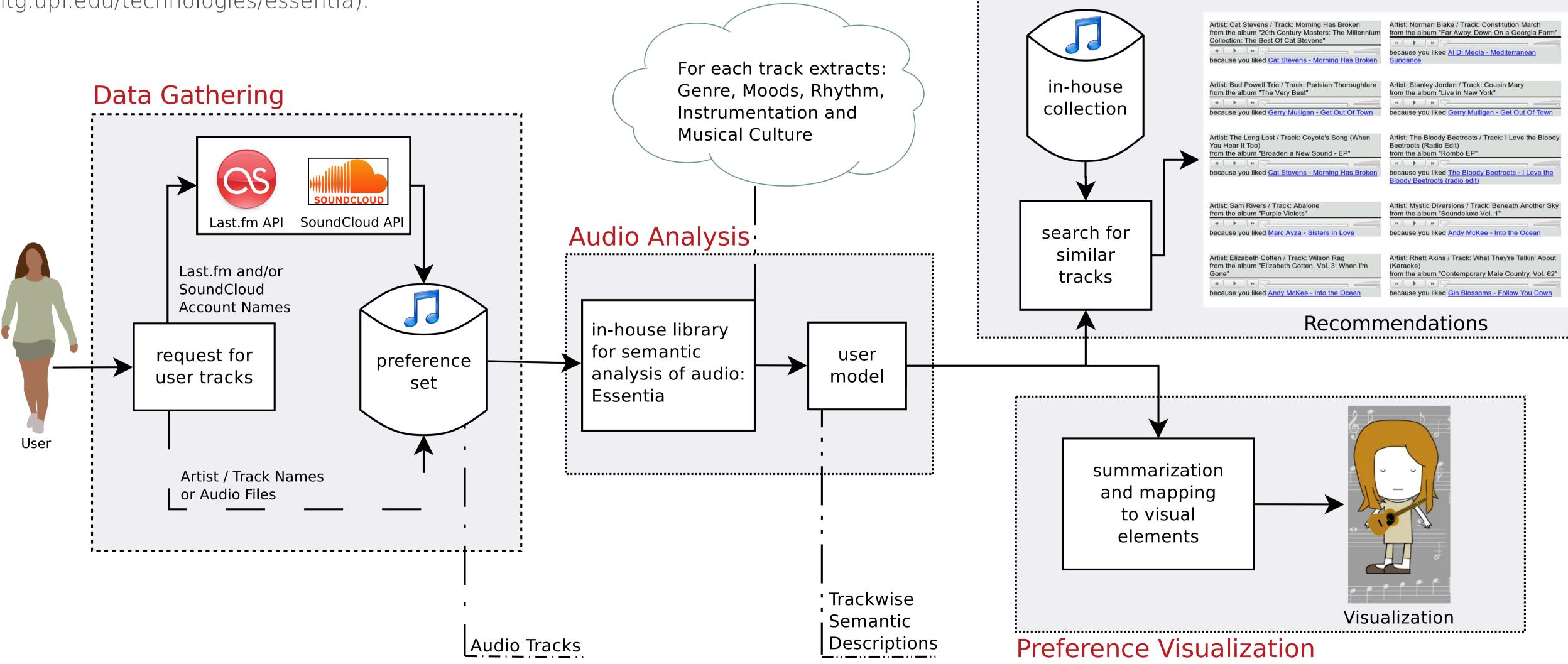
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- Works on audio examples of tracks preferred by a user (a preference set).
- Collects preference examples from user accounts on popular online music services.
- Alternatively works on preferred music tracks explicitly given by a user.
- Retrieves audio for each track and automatically computes a semantic description of musical preferences based on raw audio information (http://mtg.upf.edu/technologies/essentia).
- Generates a visual representation of the user preferences in form of a cartoony Musical Avatar.

Recommendation

• Provides music recommendations based on a semantic music similarity measure between the preference set and the available universe of music.





^[2] Bogdanov, D., Haro, M., Fuhrmann, F., Gómez, E., Herrera, P. (2010). Content-based music recommendation based on user preference examples.

The 4th ACM Conference on Recommender Systems. Workshop on Music Recommendation and Discovery (Womrad 2010).

