Song Artists Near You!

CMSC 601 – Research Skills

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Introduction

* Music is something that we all like
* Some people like to obtain more "information"
* "Music Information Retrieval" is serving as an extensive area of Research

Image courtesy "minuet.dance.ohio-state.edu"

Aim

* To provide a Google Maps-powered interface where in a user can browse the location on the map
* By browsing the location the user can obtain a list of all artists residing near that location
* And hence further can obtain the list of songs performed by the artist and the lyrics

Image courtesy “newsfeed.kosmograd.com”

Why is it important?

* Most people are “visual learners”
* Currently text search allows searching for artists within a given city, with limitations
* Physical distance not used in search

Image Courtesy “art.com”

Examples

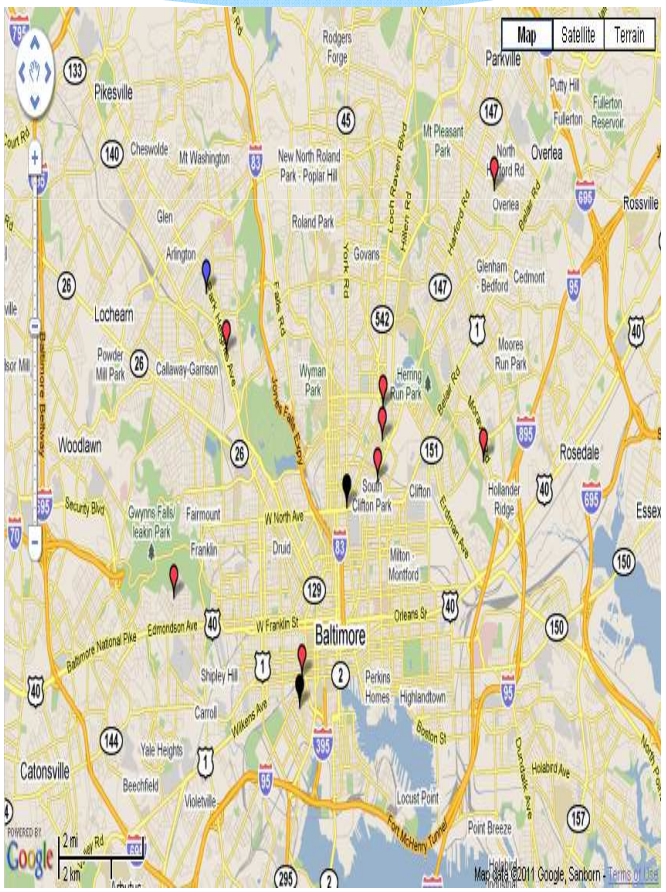
* Artists in “Baltimore” would miss artists in “Catonsville”
* Try to find artists from Liverpool, PA!
* It could help conference organizers and other event organizers .
* Enthusiast and Hobbyist

Image courtesy “musicteachermag.com”

Related Work

* Baltimore Crime Map "Baltimore Homicides." *The Baltimore Sun*. 27 Feb. 2011 http://essentials.baltimoresun.com/micro_sun/homicides

* Similar Idea but we deal with music artists rather than Homicides (more upbeat!)



Related Work

* Query by rhythm, An approach for song retrieval in music databases. [Chen et al 2008]

* Query by humming: musical information retrieval in an audio database .[Ghias et al 1995]

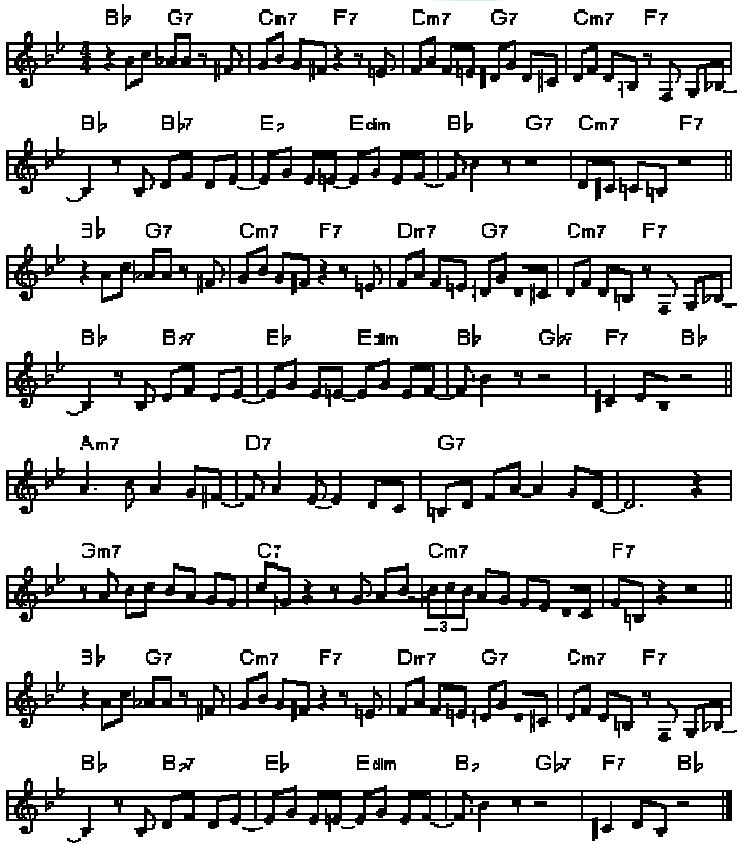
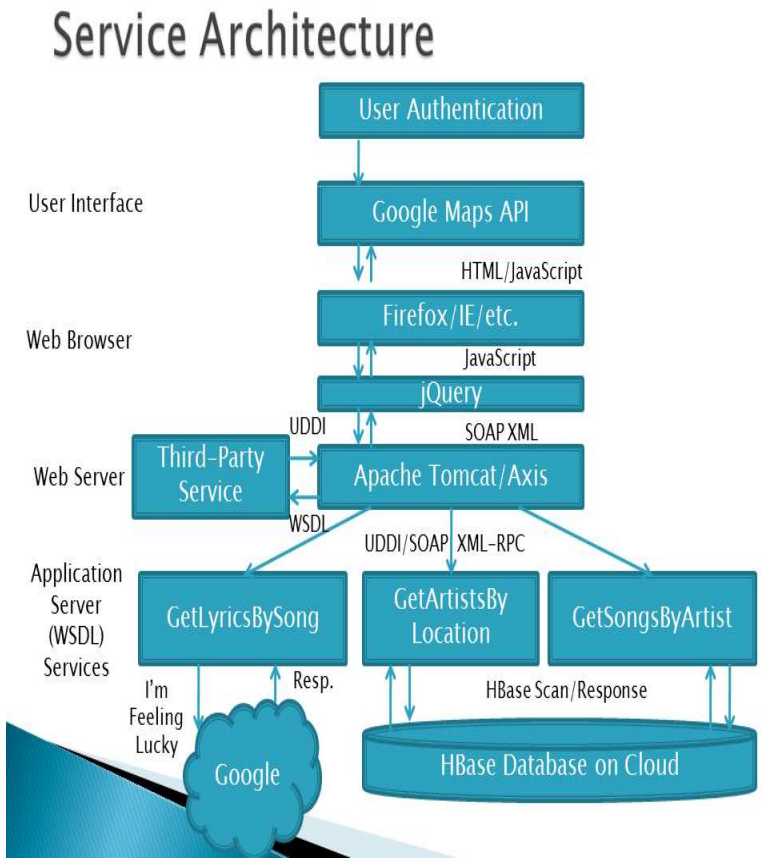


Image courtesy outsideshore.com

Approach

* To take advantages of the Service Oriented Computing Techniques
* Web-service Interfaces are defined
* Use of the “Million Song Data set”



Advantages

* Use of Service oriented techniques allows to design web-services

* Which can be further used by “third party users” to build a composition of services from ours (ex : Travelocity)

Image courtesy “goinggreenorg.com”

Methods of Evaluation

* To what extent the content is right ?
* Can be deduced from our own knowledge
* Based on the existing information on the artist

Image courtesy “eclickperformance.com”

Questions??