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Database Project

URL: <http://cs336-64.rutgers.edu>

Our Application

This web application implements a simple social network focused on music that supports functionalities for adding friends and liking various artists and songs. Users can add and edit their profile, view the profiles of and friend other users, send messages to other users, look up and like artists, and look up basic usage statistics of the site.

We handle actions by using get and post requests with php, along with keeping track of the current user within a given session. For example, when a profile is viewed, a get request is sent for the requesting user's profile. If this user matches the current logged in user as defined by the session, then extra fields are displayed such as the message box and friends requests.

Snapshots

The **user profile** contains all of the user info such as profile picture, education and possible employment information, as well as the list of songs and artists liked by the user, interests, friends, and relationship status (if applicable). Private to the logged in user only are the message box and any friendship requests from other users.

The screenshot shows a web browser displaying the 'Music Box' user profile for Jenny Shi. The page has a light blue header with the title 'Music Box' and a subtitle 'A social music site for everyone!'. Below the header is a navigation bar with links: 'Logout', 'Log out as jennyshi', and a search bar. The main content area is divided into two columns. The left column contains the user's profile information, including a profile picture of Jenny Shi, her name 'Jenny Shi', her username 'jennyshi', gender 'Female', birthday '11/02/90', address '500 Windward Trail, Alpharetta, GA, USA', email 'jenny.shi@rutgers.edu', education 'Rutgers University', school 'Rutgers University', address 'Piscataway, NJ, USA', degree 'Computer Science', and attendance 'Attended from 2010-09-10 and 2014-01-01'. The right column contains sections for 'Employment(s)', 'Songs I like', 'Artists I like', 'Interests', and 'Friends'. The 'Employment(s)' section lists 'Employer: Rutgers NJAS', 'Address: New Brunswick, NJ, USA', 'Position: Lab Consultant', 'Salary: \$0/hr', and 'From: 2013-01-21 until present'. The 'Songs I like' section lists 'Follow Me', 'Madness', 'Survival', and 'Wind Up'. The 'Artists I like' section lists 'Jesse' and 'Shirley Mankin'. The 'Interests' section lists 'Cooking', 'Reading', 'Languages', 'Photography', 'Golfing', 'Hill', 'Golfing', and 'Traveling'. The 'Friends' section lists 'ekamp', 'jennyshi', 'vickibum79', 'pennedindent', 'lynn', 'shirleyshirley', and 'shirleyshirley'.


Music Box
A social music site for everyone!

[Logout](#)
Log out as jennyshi

Search user: _____ [Submit]

[[Top Songs & Artists](#) | [Search for Artists](#) | [Site Info and Facts](#) | [Edit my profile](#)]

Jenny Shi



Username: jennyshi
Gender: Female
Birthday: 11/02/90
Address: 500 Windward Trail, Alpharetta, GA, USA
Email: jenny.shi@rutgers.edu

Education
School: Rutgers University
Address: Piscataway, NJ, USA
Degree: Computer Science
Attended from 2010-09-10 and 2014-01-01

Employment(s)
Employer: Rutgers NJAS
Address: New Brunswick, NJ, USA
Position: Lab Consultant
Salary: \$0/hr
From: 2013-01-21 until present

Songs I like

- Follow Me
- Madness
- Survival
- Wind Up

Artists I like

- Jesse
- Shirley Mankin

Interests

- Cooking
- Reading
- Languages
- Photography
- Golfing
- Hill
- Golfing
- Traveling

Friends

- ekamp
- jennyshi
- vickibum79
- pennedindent
- lynn
- shirleyshirley
- shirleyshirley

Friends

- ekamp
- ksun92
- vickishen23
- premedstudent
- hna
- thebesthostever
- thetorturedone
- jhu
- iheartchina
- shuphuo

Relationship Status: soulmate with Ho Wa Chong (premedstudent)

Message Box

From: thebesthostever

Subject: Princeton Chinese Theater

Time: 2012-11-25 05:43:30

Content: Hey Jenny, I sent you an invitation for the Princeton Chinese Theater show this week, Thurs Sat, Sun, and Sat 1pm.

From: vickishen23

Subject: mademoiselle 1981

Time: 2012-11-25 15:58:32

Content: Hello AgentH, can you recommend me some Chinese music?

From: ksun92

Subject: unacademyhack!

Time: 2012-12-10 01:28:09

Content: Hi guys, it is so nice to see back!! D

Friend requests

- whyart92
☐ accept ☐ ignore

To search for another **user's page**, just type in their username in the search box. A list of mutual friend is displayed under the user's friends list. If the logged in user is not already friends with the searched user, there is an option to him/her as a friend.

Kathy Sun



Username: ksun92

Gender: Female

Birthday: 1992-06-13

Address: 25 Sunflower Rd, Lawrence, KS, USA

Email: kathy@rulingtheworld.com

Education

School: Princeton University

Address: Princeton, NJ, USA

Degree: Public Policy

Attended from 2010-09-15 until 2014-05-15

Employment(s)

Employer: iPartners Residential Assoc

Address: Shanghai, China

Position: Benevolent Dictator

Salary: \$33/hr

From 2012-06-01 until present

Friends

- jennpeare
- vickishen23
- sbubeck
- premedstudent
- thebesthostever
- thetorturedone

Mutual Friends

- vickishen23
- premedstudent
- thebesthostever
- thetorturedone

Relationship Status: it is complicated with Cody Abbey (iheartchina)

The **edit profile** link is located on the current user's profile page, where the logged in user can change their user/education/employment information, as well as add more employment and interests to their profile. Changes are instantaneous.

Edit Profile

* - required field

User Information

First name:

Last name:

Birthday: *

Email:

Address:

Gender: *

Profile Picture URL:

Education

School: *

Start date:

End date:

Degree: *

Employment

Employer: *

Address:


Position:

Salary (per hour):

Start date:

To search for **artists**, simply type the name into the artist search box. The result page will display the artist information, such as their picture, a short biography, and their songs and the albums. Users have the option of liking the artist and the songs, and once they like something, the like button will not display to avoid duplicates.

Jason Mraz



Friends that like this artist: 68464829

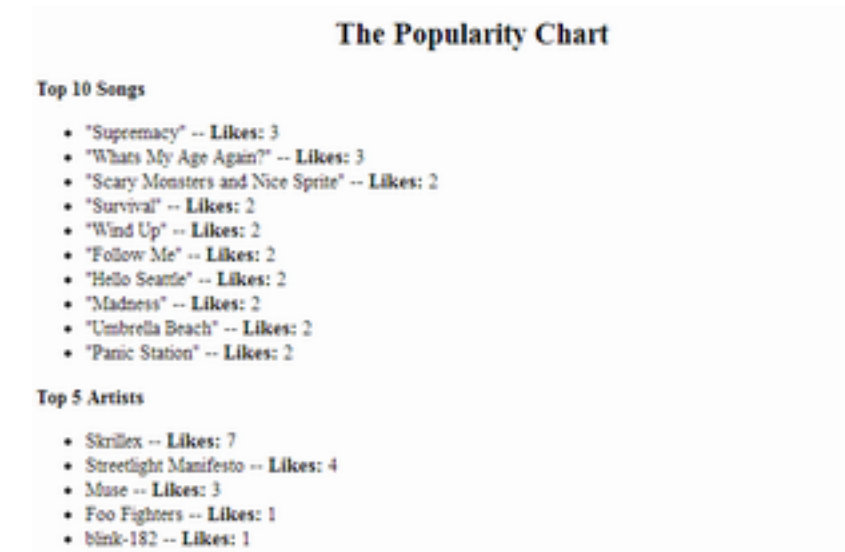
Artist Bio: Jason Mraz (born June 23, 1977 in Mechanicsville, Virginia) is a Grammy winning American singer-songwriter. Mraz's stylistic influences include reggae, pop, rock, folk, jazz, and hip hop. Mraz released his debut album, *Waiting for the Sky to Fade* in 2002 but it was not until the release of his second album, *Mr. A-Z* that Mraz achieved commercial success. The album peaked at number five on the *Billboard* Hot 200 and sold over one hundred thousand copies in the US.

Most popular song :

Album: We Sing. We Dance. We Steal Things.
Year: 2008

Song Name: Make It Mine
Genre: Pop Rock
Length: 3m 15

Our site has a **top songs/artists** list that automatically updates with each 'like' on songs and artists.
(Users can only like an artist once)



This page displays **random facts** about the users and music in our database, as well as more complicated queries involving joints of multiple tables.

Sample Facts about our users

Number of:

Average songs liked: 0.4286

Likes a certain artist and goes to a certain school

Artist: School:

Some things we did not implement

- List all songs/list songs by attribute: songs are listed by artist in the corresponding artist page.
 - This makes it so the songs are more easily accessed and seen.
- List all of the users under 30 employed at a company,
 - Company's did not store enough data to warrant their own page so all the data was migrated to the user profile. Because of this, this query didn't have a good place to put in the site.
- List all users in a certain town/state: addresses are stored as a string so there was no simple way to extract this data.
 - In order to fix this we would have to add more columns to the db for each field for every user.

- For the other few sample queries that we did not implement on the site, the main reason was because our data sample was not large enough to make the queries meaningful (e.g. list user(s) with the largest song list).