Songaa

Project Specification

Version 0.0
April 3, 2013

Presented by:
Navnit Bhaktwarti

Songaa - Project Specification

Introduction

This is android based mobile app project for songs social network. The app will be free for user to share their songs with friend, upload their favorite songs, comment on friend uploaded song, attach any image to the song, and make more user friendly feature on song social network. Current assignment is to build the login and New Feed screen.

Scope and Out of Scope

Scope

1. Build the solution architecture of project as given in architecture diagram.
2. Build a flow of the screen as given below in process flow diagram.
3. Build login screen to authenticate user and open the launch screen. Also register the users.
4. Processes to auto authenticate user existing logged in users and redirect to open the launch screen.
5. Build a launch screen to display the records from the database.
6. Functionality to play and stream the song simultaneously.
7. Multi-threading functionality to download the image/song, or communicate with application/database server on background threads and display on the UI thread.
8. Implement RESTful service to communicate between the client and the application server
9. Implement process of logging, error handling and commenting the code; and follow proper coding standard
10. Develop all required databases, table, SP, functions and view. Also preload the data into database to view on launch screen.

Out of Scope

1. Build screen to upload/store the song/image to the database.
2. Build screens for global navigation buttons.
3. Build any database administration process
4. Build any inner navigation of the screen. For ex; action button on the popup window and similar.
5. Setup and maintain application server & database server.

Assumptions

1. The songs/image records will preload in database to display on launch screen.
2. Temporary the default sets of information will be display for new register users because data insert/upload screen is not linked with database.
3. Delivery would be complete functioning code and database script.
4. Database server is mysql and app coding in Java language.

Process Flow Diagram

A. When user click on the app launch icon, app will launch and open the login screen if user is not successfully logged in before or sign-out from the app.

B. If user is already successfully logged in before and not forcefully signed out then the launch icon click opens directly the launch screen.

C. The new users also register from Login screen by entering their email id, and password and use the app.

Requirement Specifications

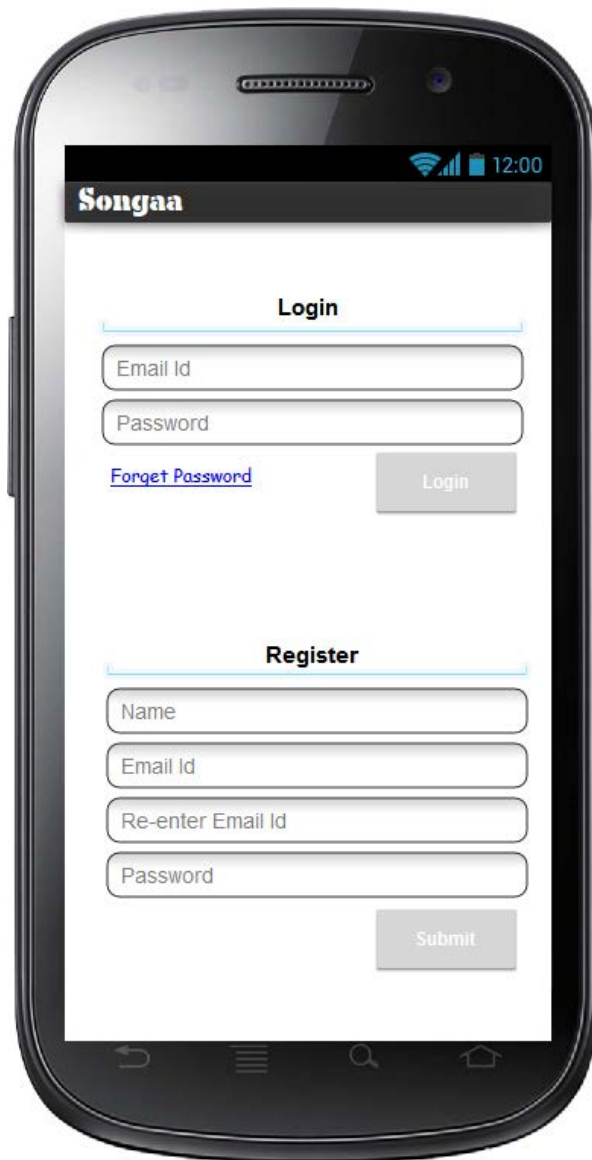Launch Icon

Songaa - Project Specification

This is app launch icon button screen where users click and open the app. The app authenticates the user and open the login or launch screen.

Business Rule:

1) Launch icon click should open the "Login" screen if user wasn't successfully logged-in to the app before.
2) Launch icon click should open the "Login" screen if user forcefully signed-out from app and re-open the app.
3) Launch icon click should open the "Launch" screen if user was successfully logged in before and not signed-out from the app.

Login Screen

Songaa - Project Specification

The login screen is divided into 2 parts;

A. Login Section: Registered users enter the login credential - email id & password, and click on Login button. On button click, app will encrypt the credential and mobile identity number; and transfer that to the server (or application tier) services to authenticate. The server decrypts the information and validate. After successful validation, server will store the mobile identity number to the database for that user and return back with the status (success/fail) flag.

B. Register Section: The process of this section is same as login section. Only unregistered users enter name, email id, and password. App should alert user if the email-id mismatch between email id and re-enter email id textbox; and don't send information to server until success validation. Once name, email id, and password get validated at client side; and Submit

button clicked, the app encrypt the information (email id, password and mobile identity number) and transfer to the server, and start loading the launch screen. The server decrypts the information and store in database.

Business Rules:
1) Email id validation should be client side
2) Password should be between 5 and 20 character; and alphanumeric and symbols
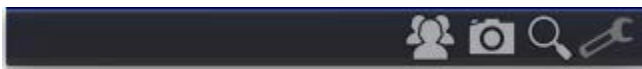3) The validation error should show at top of the screen

Launch Screen

Songaa - Project Specification

This is app home screen or launch screen. The top panel of screen is global navigation panel; after that favorite carousal, user panel, and news feed.

1. Global Navigation Panel

Songaa - Project Specification

This panel sticks always at the top of the screens and uses to navigate other screen – friend list, camera, search, and singed-out.
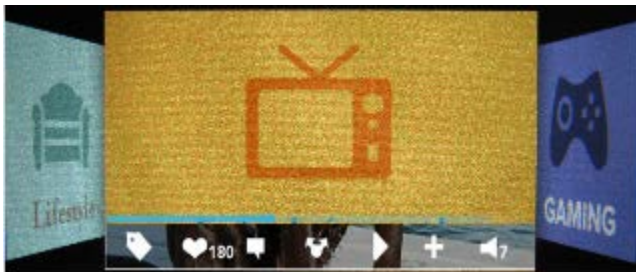
Currently all navigation button should open the blank page with screen name as shown below.

2. Favorite

This section populates user favorite song list. User scrolls the list as show below carousal (from left to right and vice versa) and play, share, tag and do other action on it.

A. List Carousal

The section show one favorite song image at center with all navigation buttons and highlight the next and previous in list as shown. User touch scroll left to right to go Next song image which

highlighted, and right to left for Previous song. On left to right or right to left scroll, the next in list song image should highlight at left and right.

For first song image in list, the left highlight area should be blank and similarly for last song image the right highlight area should be blank.

Please refer below Navigation topic for navigation button explanation.
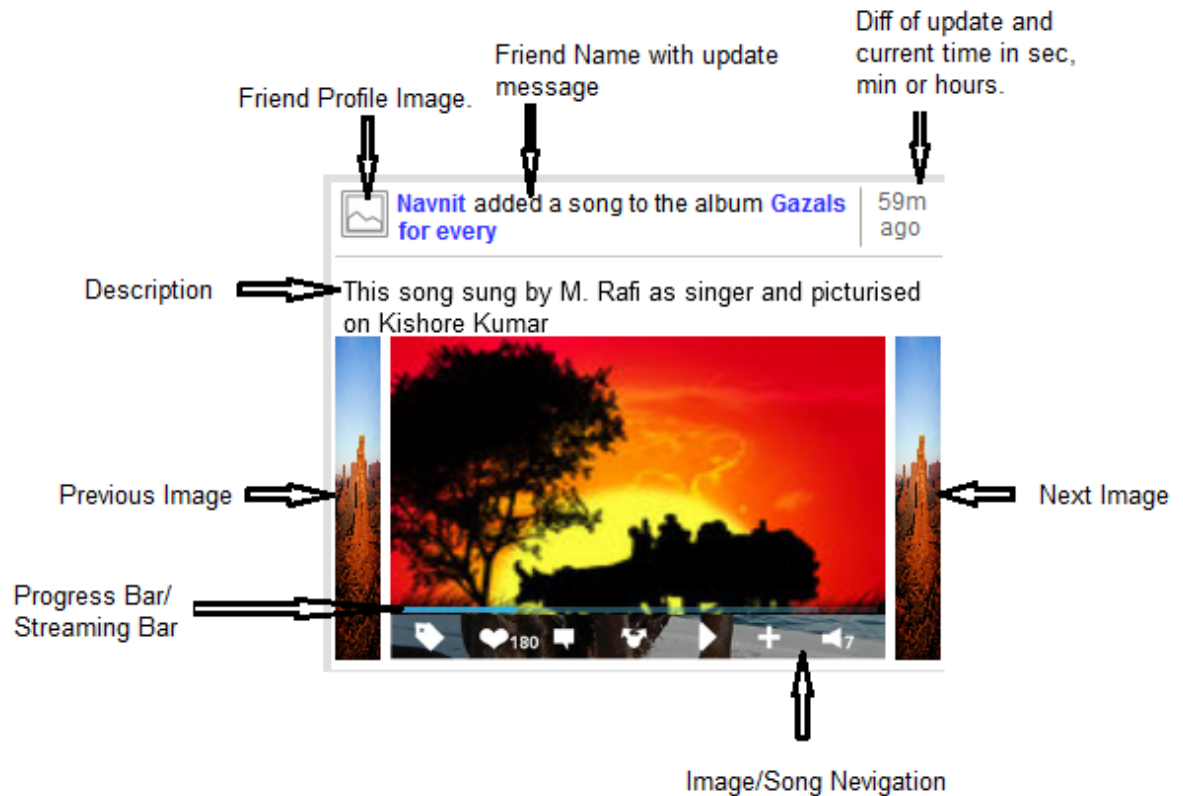
B. User Panel

For left to right, this panel displays user profile image, user name, new friend request icon and

new message icon. If profile image is not available for user, display the default image .

The new friend request icon shows the count of people requested to add in friend list. After click on image, it will pop-up small box and show the name of friend request.

The message icon shows the count of new comment received on user's songs. After click on image, it will pop-up small box and list of comment and song name.

C. News Feed

The section will display friend's update. The updates on the album, or add song, or add comment to any friend's friend song; also if user got tag by someone and so one. This feature would be similar to the other social network New Feeds section.

This section group all **day** updates of **particular** friend in one section. For example;

Friend-A upload the 5 songs in an interval of 10 minutes. Then all 5 songs will populate in one section with horizontal carousal, as shown above.

Suppose if Friend B comment on 2 songs of Friend-A, then both comment would display in one News Feed section.

If Friend-B comments on Friend-A songs, and also Friend-B comment on Friend-C songs within a day then both will come in 2 differnt section of News Feed panel; with update message like –

-   Friend-B comment on the xxxxx song of Friend-A
-   Friend-B comment on the aaaa song of Friend C

The image navigation attach to the bottom of center image. Please refer below Navigation section for details;
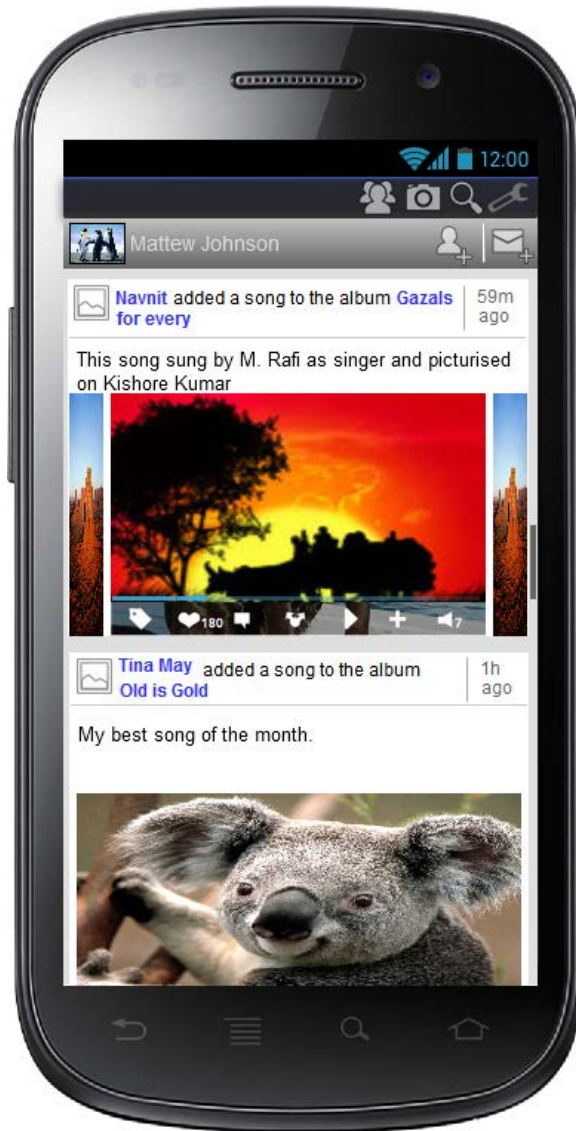
Navigation

From left to right the navigaitons are;

1. Tag: To tag the song to other friend.
2. Live/Love: Like the song
3. Comment: Comment on the song
4. Add to favorite: Add the song to the user favorite list
5. Play the song
6. Plus sign – to download/add the song in mobile device
7. Volume – Increase and decrease the voice

Launch Screen – Scroll

The scroll of the launch screen will move up the Favorite panel and freeze the User panel just after the Global panel as shown below. The news feed scroll normally.

Songaa - Project Specification

Business Rules:

1) After click on play button, song should play and stream simultaneously
2) While playing of one song, user click to play another song; the first song should stop and play the new song
3) Song image should fit properly on proportion and resize automatically on display.
4) Show default image if song doesn't have associated image.

Fees, payments, and service terms

[List all fees, payments, and service terms that relate to this service offering.]

Total Development Time	Total Payment	Service Terms	Payment Schedule	Primary Contact at Songaa

Accurate information

[Provide detailed standards by which your company compiles information about and for your customer.]

Privacy statement

[Specify the privacy policies your company follows and the standard by which you expect your customer to operate.]

Ownership

[Provide a statement that details what your company owns and what the customer owns after the service is delivered.]

Disclaimer

[Use this section to limit your liability for the services and product(s) you provided. This section covers your business, product use, and service agreement.

List the standards by which your company offers its services and whether your company or your customer reserves the right to alter the agreement. Also state if changes are allowed, and if so, when changes are allowed and what must take place to facilitate those changes.]

Indemnity

[In this section include statements that release your company from harm. Provide your company's statement of security against loss, damage, or injury.]