SAREGAMA Manual

Version 2.0

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Compiled By

Gray Matrix Solutions Pvt. Ltd.

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Overview:

This is basically a desktop application this can be download from Intel App Store. In this user can register with specific plans and then access 24 hour radio stations in 9 different languages and also listen various artist stations songs. In that user can add song to library and create their own playlist for the same. User can also search songs and share particular songs on Facebook and Twitter and dedicate particular song to their Facebook friends. Also, user can buy credits to download their favorite songs.

This Intel app is built using HTML5 technology. Code comprises of html, js, css and image files. The code folder is zipped and submitted to the encapsulator provided by Intel APPUP. This will in turn give a link from where we can download MSI file. This MSI then needs to be signed before uploading it to app store.

Flow of the project:

1. To enjoy this app, you can download it from Intel APP UP store and install it on your system.
2. In start, you will see a welcome screen.
3. If you are first time user, you need to register first.
4. You can subscribe to trail plan or premium plan during registration.
5. If you have voucher with you, you can avail voucher plan.
6. Click on? Icon on subscription screen to know in more details about each plan.
7. On registration, activation code will be sent to your email id.
8. When you login for first time it will ask for activation code.
9. Your account gets activated if you enter correct activation code and it takes you to the radio station screen.
10. Before loading stations page, we fetch information about stations, artist stations, current program schedules, trivias, banners, testimonials, user library, user playlists using ajax and store them in javascript array.
11. Stations are listed on left side.
12. On click of radio station we show the corresponding program schedules, station banner and station trivia.
13. There is a background process which regularly updates the program in an hr.
14. There is a continuous process in background which highlights the song which is being played currently.
15. Testimonials and Advertisement banners are changed from time to time.
16. For artist station, we show artist image, other artist with same language and its playlists.
17. Search text box is provided in header using which user can search song. Search keyword is based on song title or artist name or album title.
18. You can play the song, add/remove it from your library, share it with your friends on facebook or twitter, dedicate song on facebook or download the songs.
19. You need to buy credit for downloading song. 1 credit will be deducted for each download.

20. Facebook share means a message is posted on your facebook wall stating that I am listening to so and so song on saregama world space radio.
21. Similarly, twitter share means the message is sent as a tweet by the application.
22. You can dedicate song to your friends on facebook. In this case, you can select your friends on facebook to whom you want to dedicate the song and they will receive a message in their facebook inbox. For this feature you need to first enable your facebook account from my account tabs.
23. Buy credit page: Credit plans are listed. These plans are added by admin using cms. You can buy it using cheque or credit card.
24. If you are buying it using cheque the credits won't be reflected in your account until admin approves it using cms.
25. If you buy it using credit card, it will redirect you to payment gateway. Where you need to enter your credit card details and make the payment.
26. Library page: All the songs present in your library will be listed here. You can further sort them on basis of playlist. You can either create new playlist or add them in existing playlist.
27. My playlist page: you can add, edit, delete playlist. You can view songs in your playlist. You can sort songs in your playlist.
28. My Account: You can view your subscription information, credit balance, change username, email, password, add testimonial. You can also enable your facebook account. That is you actually bind your facebook with saregama account. Once you enable your facebook account, you can then use following 2 features :
    a. Dedicate song to friends on facebook which I have already explained.
    b. Facebook login : You can login with your facebook account next time whenever you want to login in app. Login with facebook button is provided on login page.
29. There is separate facebook and twitter share icon besides media player using which you can share currently playing song.
30. You can also change the skin/theme of the app using the link provided on top right corner.
31. You can view app in 2 modes : maximize mode and minimize mode. The second icon on top right corner can be used for switching mode.
32. Third icon is logout button
33. Fourth one can be used to close the app.

Technologies Used

1. CakePHP
2. JQUERY
3. HTML
4. Javascript
5. CSS
6. ICECAST Streaming Server

Web Server

Apache

Server version : Apache/2.2.15 (Unix)

Document Root : /var/www/html

Websites : http://worldspaceradio.saregama.com/ - Intel App Home Page

http://intel.saregama.com/srgm2/ - Intel app application

http://intel.saregama.com/srgm_mobile – Mobile Application Api

http://intel.saregama.com/srgm_bb10 – Blackberry 10 Application

MySQL

User Name : intel

Password : intel123

Databases : intel_saregama, srgm_mobile

Radio Server

IceCast Streaming Media Server

IceCast is free server software for streaming multimedia.

Version : 2.3.2

Location : /home/ice/

Access URL : http://radio.saregama.com

Admin URL : http://radio.saregama.com/admin /

Admin User : admin

Admin PWD : tune1n

The version installed is 2.3.2 downloaded from http://downloads.us.xiph.org/releases/icecast/icecast-2.3.2.tar.gz

_____How to set up starts here!!_____

Howto for setting up your own online internet radio station?

Here's a howto for setting up your own online internet radio station. This was done on a CentOS 6.2 platform but it's pretty much the same for others as well. Most of the installs are source compiles, yum has been used for some libraries you could use your favourite package manager on your server.

Config files and installation service are available on request. We will be refining this project over time adding much much more funtionality and software to the web player. for now enjoy this player here:

Prepare the server for greatness

yum -y install bzip2-devel ncurses-devel aspell pspell expat-devel gmp-devel freetype-devel flex-devel ruby-libs ruby gd-devel subversion libjpeg-devel libpng-devel gcc-c++ gcc-cpp curl-devel libxml2-devel libtool-ltdl-devel httpd-devel pcre-devel libc-client-devel unixODBC-devel postresql-devel net-snmp-devel libxslt-devel sqlite-devel readline-devel atop htop pspell-devel

cd /home/imtiaz/src/; wget http://space.dl.sourceforge.net/project/lame/lame/3.98.4/lame-3.98.4.tar.gz

tar -zxf lame-3.98.4.tar.gz

cd lame-3.98.4

./configure

make

make install

yum install libshout-devel, flac-devel, perl-devel, python-devel, libmp4v2-devel

add a user which will be used to run everything

useradd ice

passwd ice

start working on the streaming server setup as the user from above

su – ice

mkdir src

cd src

wget http://downloads.xiph.org/releases/icecast/icecast-2.3.2.tar.gz

wget http://www.centova.com/clientdist/ices/ices-cc-0.4.1.tar.gz

tar -zxf icecast-2.3.2.tar.gz

tar -zxf ices-cc-0.4.1.tar.gz

setup icecast

cd icecast-2.3.2

./configure –prefix=/home/ice/srv

make

make install

build a local copy of flac 1.1.2(or lower) as ices wont work with latest versions of flac

cd ..

wget http://downloads.sourceforge.net/project/flac/flac-src/flac-1.1.2-src/flac-1.1.2.tar.gz?r=http%3A%2F%2Fsourceforge.net%2Fprojects%2Fflac%2Ffiles%2Fflac-src%2Fflac-1.1.2-src%2F&ts=1338063039&use_mirror=space

tar -zxf flac-1.1.2.tar.gz

cd flac-1.1.2

./configure –prefix=$HOME/srv

make

make install

build ices

cd ../ices-cc-0.4.1

make distclean

./configure –prefix=/home/ice/srv –with-flac=/home/ice/srv

make

make install

work on the housekeeping

export PATH=/home/ice/srv/bin/:$PATH

cd srv

cd etc/

vi icecast.xml

cd

mkdir -p /home/ice/srv/var/log/icecast

chmod -R 755 /home/ice/srv/var

Launch icecast

/home/ice/srv/bin/icecast -c /home/ice/srv/etc/icecast.xml -b

(-b sends it to the background, icecast.xml will need to be editted for passwords etc.)

playlist setup and directory structure for music files and playlists

cd

mkdir media

cd media

mkdir pls

cd ~/srv/bin

vi mp3list

cd ~/media

cd music

##(remove spaces from name of songs)

find . -name '* *' | while read file; do target=`echo "$file" | sed 's/ /_/g'`; echo "Renaming '$file' to '$target'"; mv "$file" "$target"; done;

cd ~srv

cd bin

chmod 755 mp3list

##(generate the playlist)

./mp3list ~/media/music/1 1

(write the config file for the stream)

cd ~/srv/etc/

mkdir stubs

cd stubs

vi 1.conf

Launch ices

cd

srv/bin/ices -c srv/etc/stubs/1.conf

Create the webpage for the demo embedded player

su -

cd /var/www/vhosts/default/htdocs/

mkdir radio

cd radio

vi 1.htm

chmod 755 radio -R

That is it, your radio is online and you can tune in by going to the mountpoint you setup in the ices configuration you used. If you need assistance with this setup please mail us on R at NetBrix dot net. Lots of improvements on the way in the meanwhile enjoy this online radio channel

----------How to setup ends here!!

Icecast server is used to stream the mp3 files. It is installed in /home/ice/ folder. Station is created using CMS. When a new station is added, a 10 minute interval cron [/home/ice/srv/etc/templates/createStation.pm] creates all the configuration files for the station and starts the station.

Each stream will be called as a station. They are identified using their unique id. The stations can be accessed using http://radio.saregama.com/<station_id>

Each stations have two bitrates, one 128 Kbit stream for intel App. And one 64 Kbits stream for Mobile applications. To access 64 bit stations use http://radio.saregama.com/<station_id_64 >

The mp3 files are mounted at /home/ice/media/music/ which is also mounted at the document root [/var/www/html/intel/srgm2/music/] of the srgm2 web. This can be accessed from http://intel.saregama.com/srgm2/music/<ISRC>.mp3

The admin module can be found @ http://radio.saregama.com/admin

Username and password are admin and tune1n respectively. This is not being used anywhere except for troubleshooting purposes.

Ices

The version installed is 0.4 downloaded from http://downloads.us.xiph.org/releases/ices/ices-0.4.tar.gz

Crons

/home/ice/srv/etc/templates/createStation.pm

The above script is scheduled to run every 10 minute and checks whether a new station is added using CMS. If a new station found, it creates all the configuration files for the station and starts the station.

/home/ice/srv/etc/startup/startStopped.pm

The above script checks every 5 minutes whether any station has been stopped. If found one or more, shoots out the mail detailing the cause and starts the station.

/home/ice/srv/etc/crons/station_state_check.pm

The above script executes thrice a day and check the days for which the program songs is uploaded for and shoots out the mail.

/home/ice/srv/etc/playlist/all.sh

The above script executes @ 11:30 PM every day to update the playlist for standard stations.

/home/ice/srv/etc/playlist/artist.pm

The above script executes every hour to check whether any new playlist has been uploaded for the Artist stations. If new data found updates the playlist for that artist station.

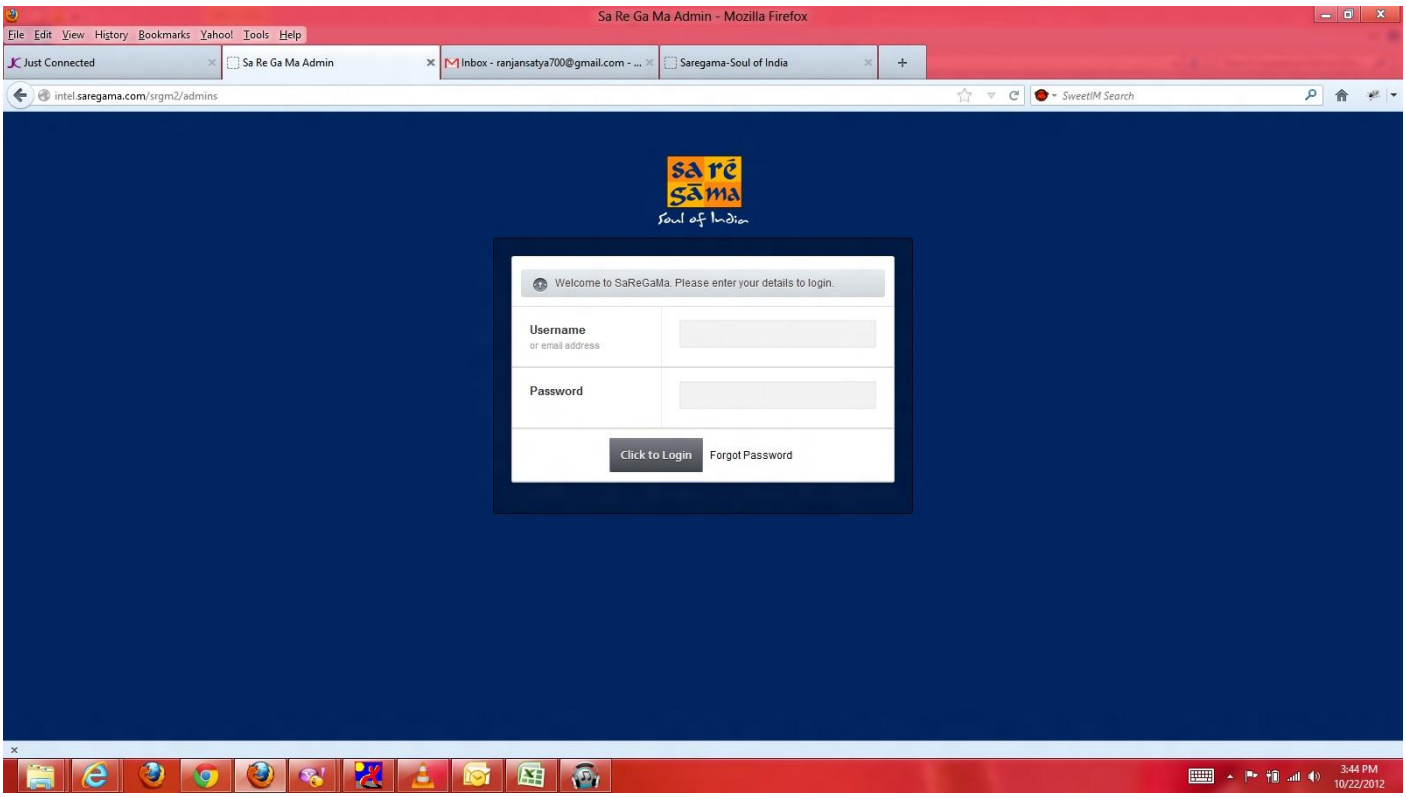
How to Login to Saregama Admin Section

The Link for Saregama Admin is:

http://intel.saregama.com/srgm2/admins

Username: admin

Password: graymatrix2013



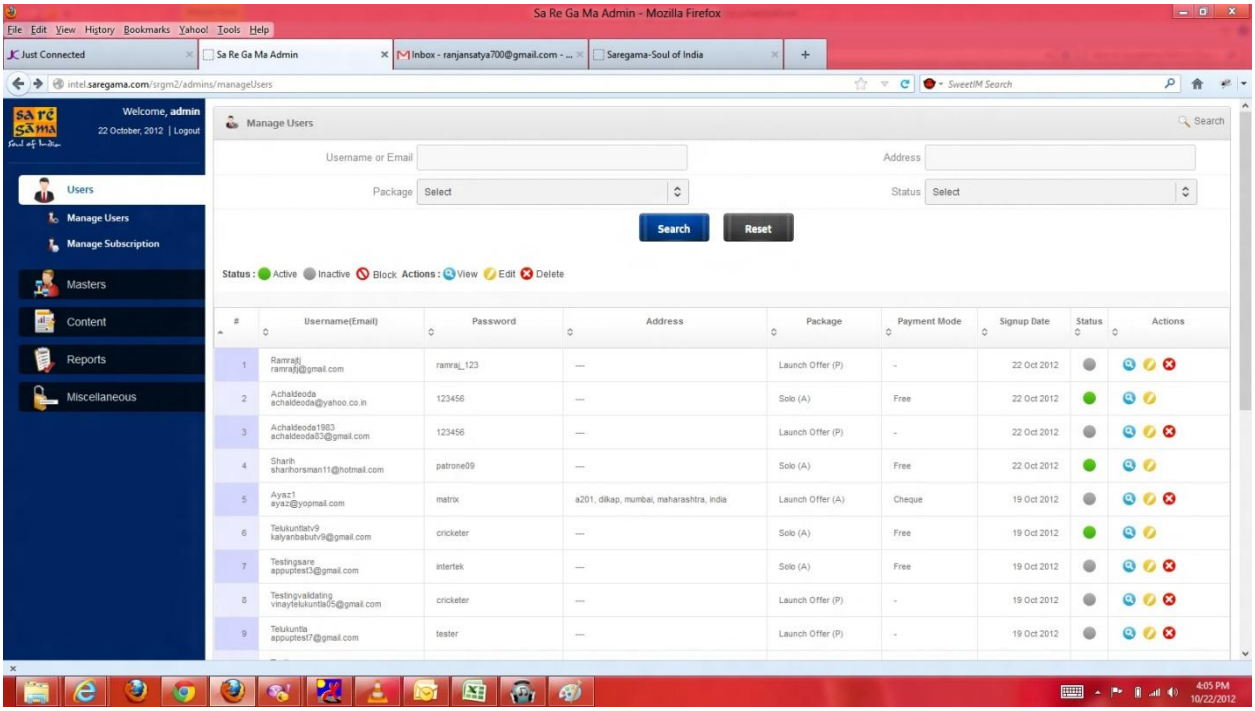
SaregamaAdmin Login Screen

Manage Users

Manage user's page:-

1. Where admin can search the user with particular criteria like with their username or email.
2. Where admin can edit or view users details

Path for this: Users ⇨ Manage Users



Manage Users

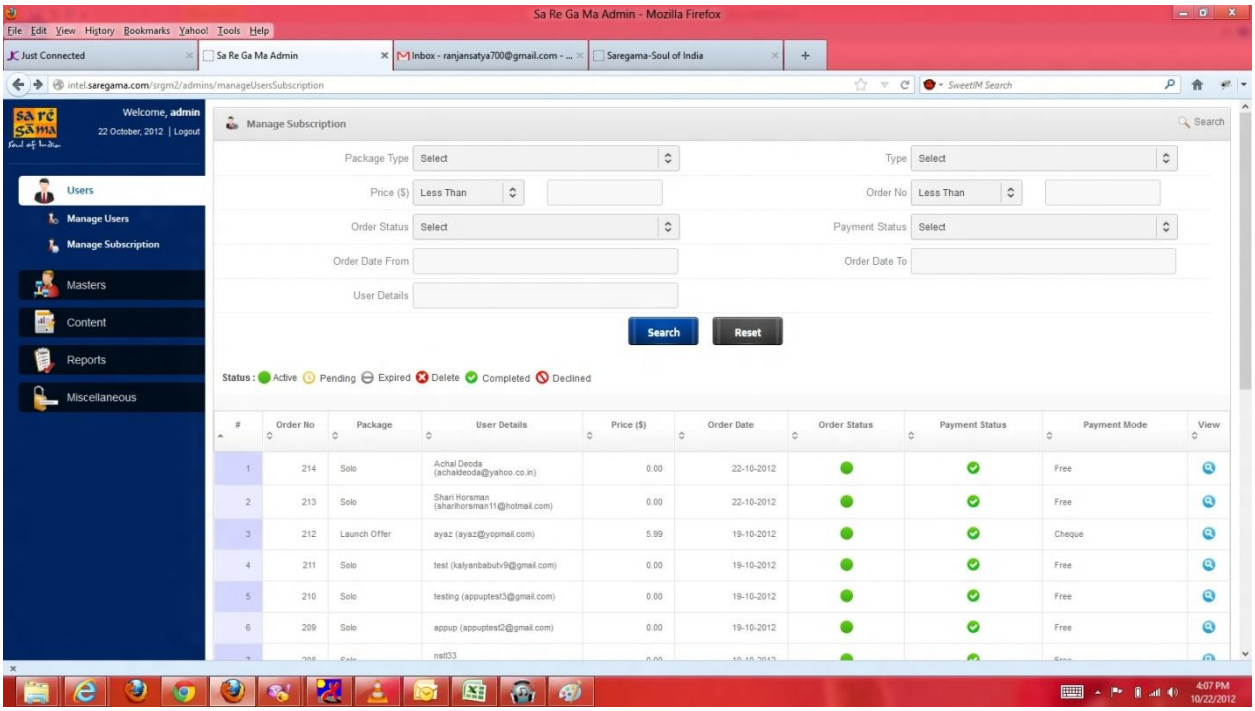
Manage Subscription

In manage subscription:-

1. Admin can search by package details or type.
2. New user's subscription status can be known
3. With the status of payment received the admin can change the status of user from pending to complete.

So when the cheque payment clears, admin can change the payment status as completed with completion date. Now user can access allthe features for that particular plan selected.

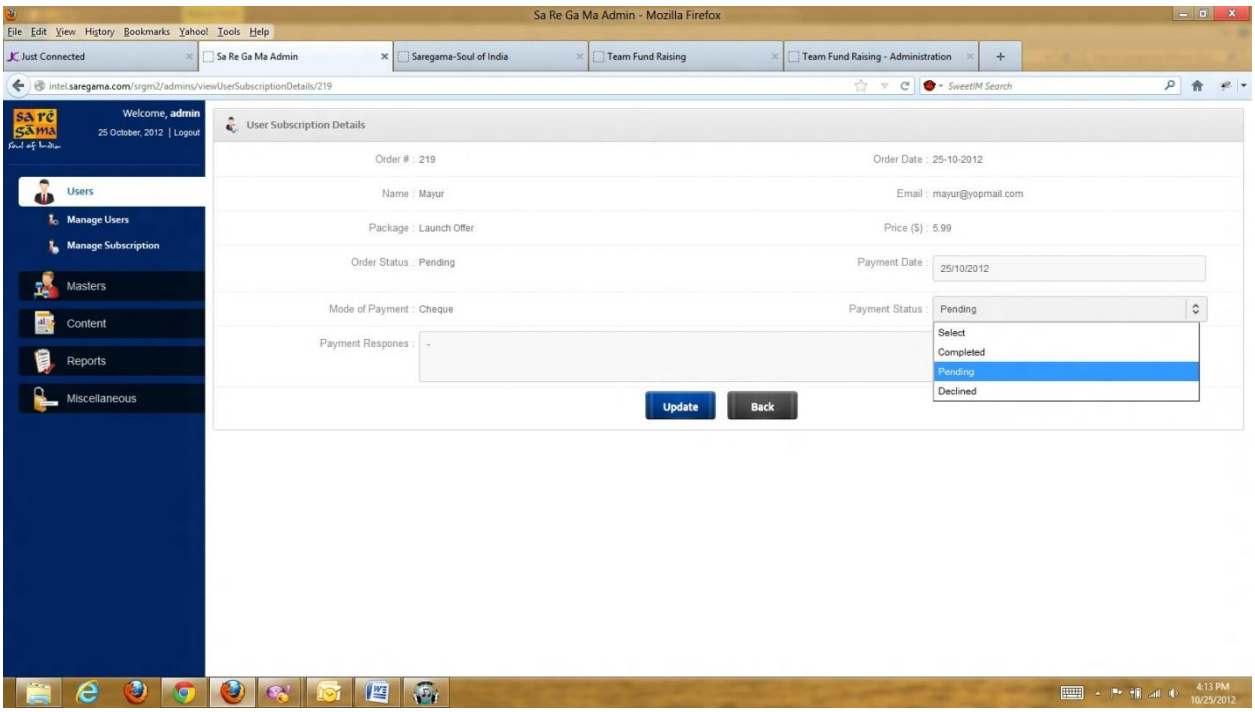
Path for this: Users ⇨ Manage Subscription



Manage Subscriptions

How to change user subscription status from pending to completed?

Click on view on the right most column under manage subscription then click on change payment status



User Subscription Details

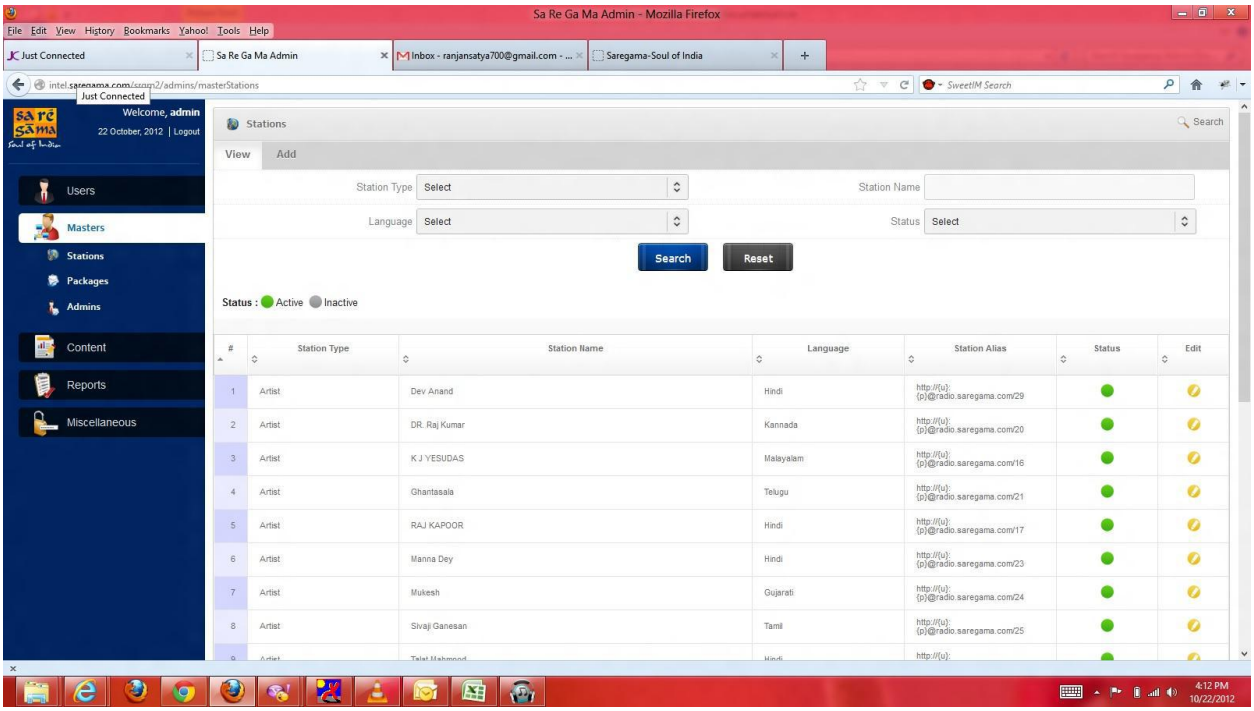
Note: Once the payment is received the admin will approve and users will be able to browse the site according to the plan that they selected.

Stations

In the stations section admin can view artist and standard stations. The stations can also be edited.

Note: While adding new stations though the alias should be a single word with no spaces.

Path for this: Masters ⇨ Station ⇨ Add Station



Add Station

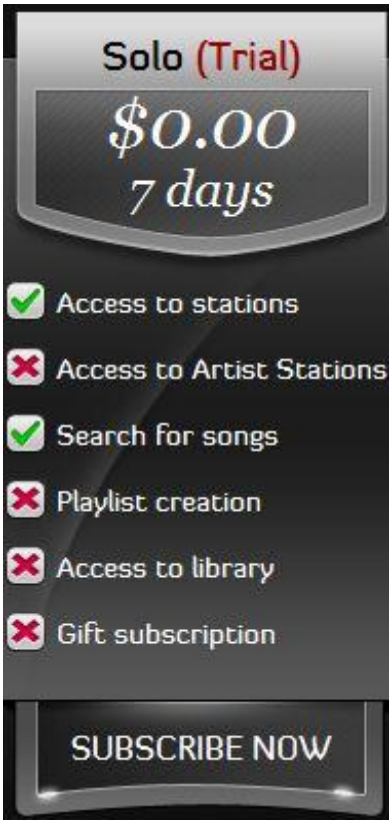
Packages

Packages in Saregama are of two types Solo plan and launch offer.

Solo Plan Features

1. Users who subscribe for the solo plan have access to various stations and can search for songs.
2. Butthese users do not have access to Artist station.
3. They cannot add songs to library or playlist.
4. They do not even have access to gift subscriptions

This is better viewed in the image below:-



Solo

Another package is launch offer, following are its details

Launch Offer Features

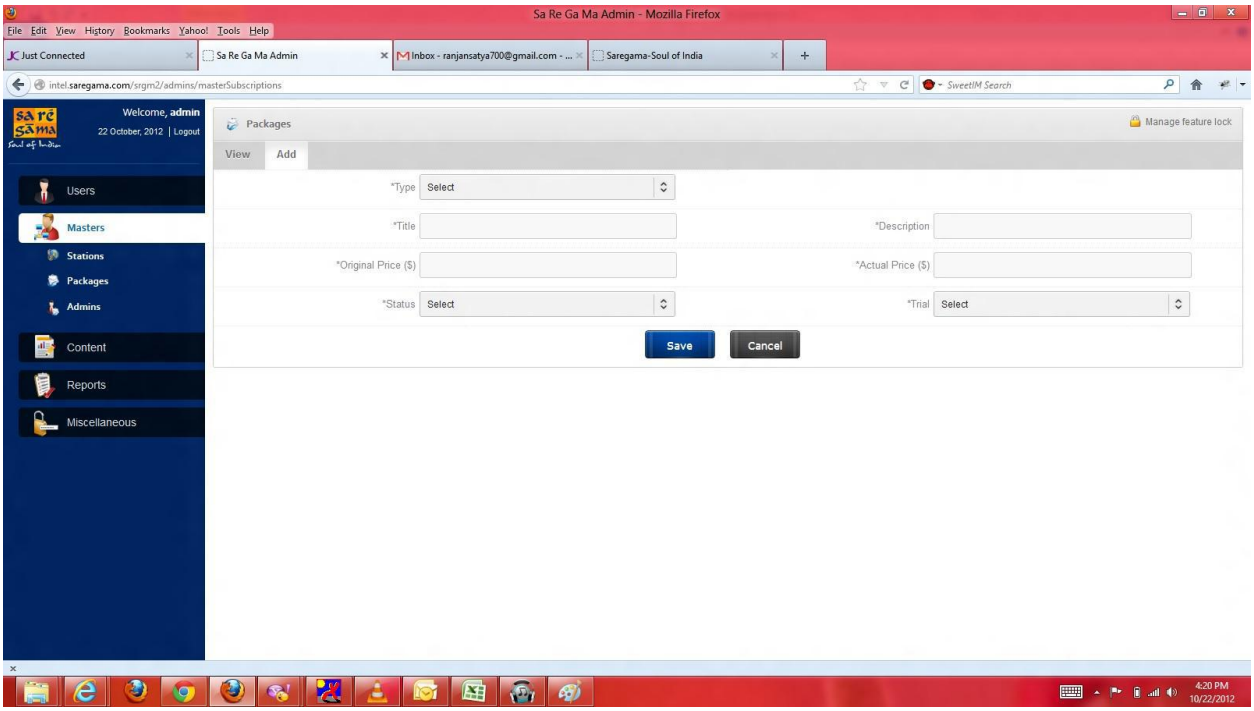
1. Users who subscribe for the Launch Offer have access to both artist and standard station.
2. They can search songs, as well as add songs to library and playlist.
3. But they do not have access to the Gift Subscription.

This is better viewed in the image below:-

Launch Offer

Add Package Screen

Path for this: Masters ⇨ Packages ⇨ Add Packages



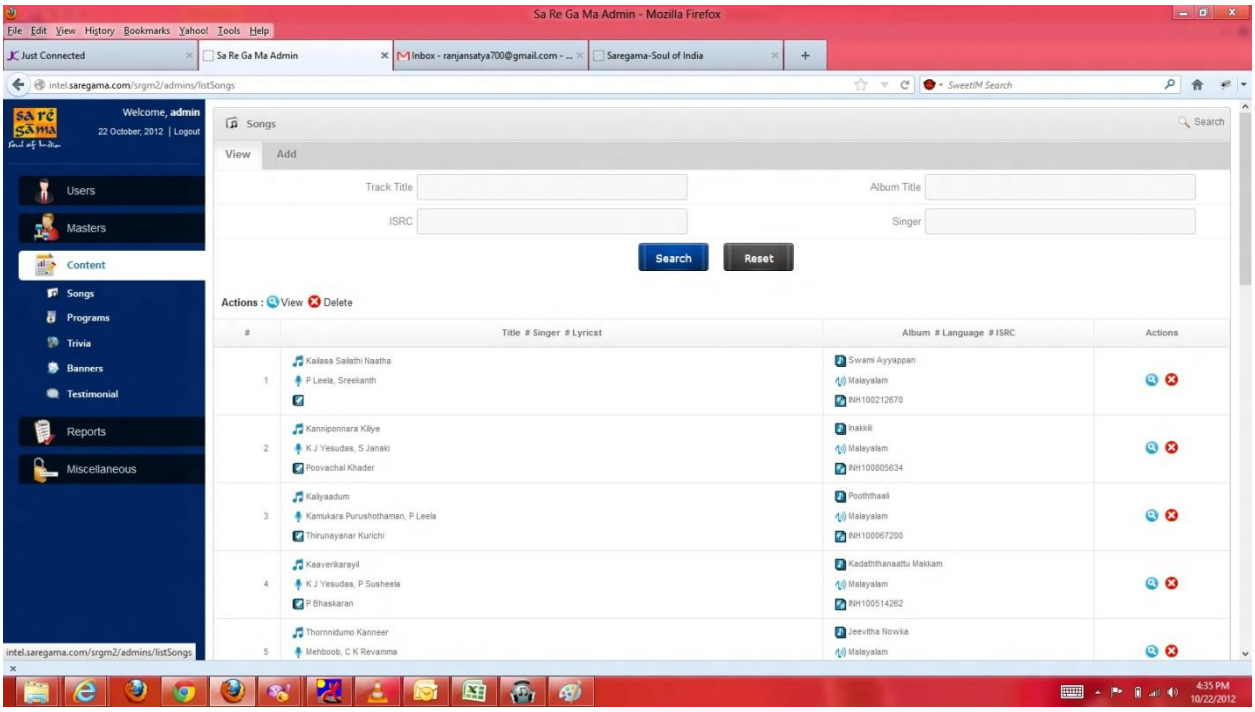
Add Package

Songs

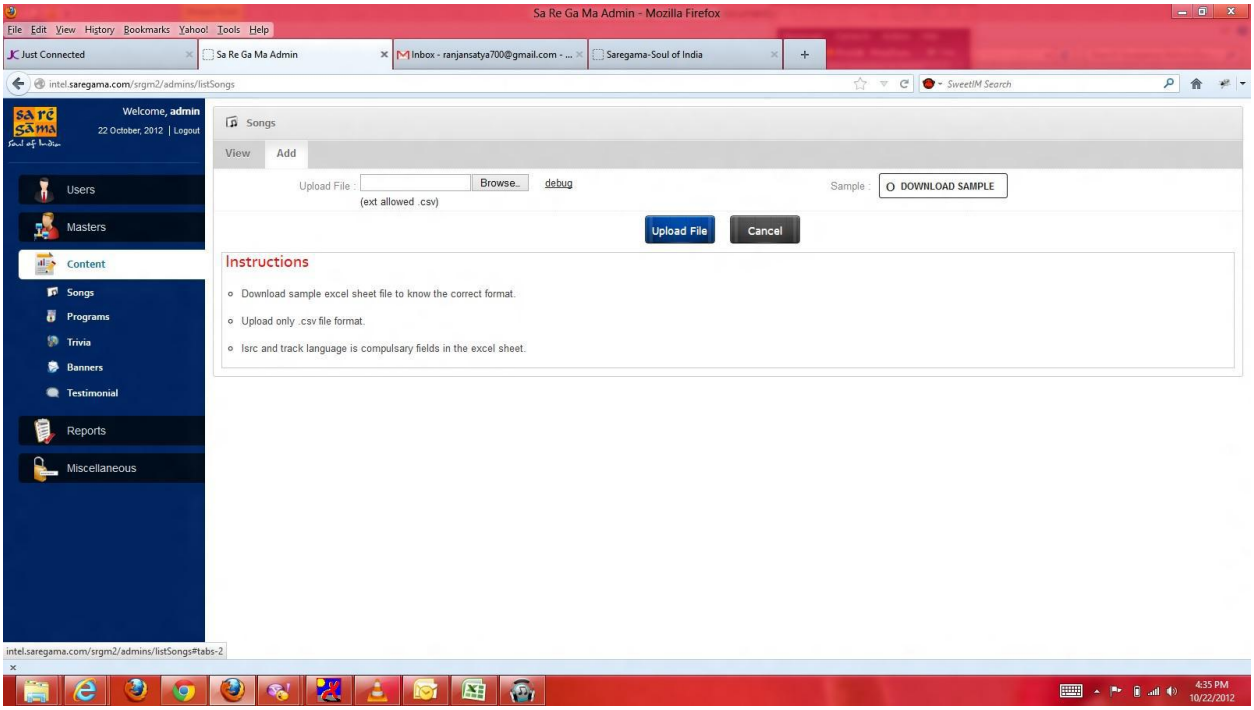
The songs column allows admin to search songs as per names of the artists and albums.
In the add songs field:

1. The file format should be .csv
2. There are 42 columns spanning the .csv file
3. The ISRC code, track title and track_language are compulsory fields.
4. In this field names should be the same ones that are provided in the sample file.
5. Special characters are not allowed.
6. Time format should be hh:mm:ss with the 24 hour format being applied.
7. ISRC should be uploaded on a physical location.

Path for this: Content ⇨ Songs ⇨ Add Songs



View Song list


Sa Re Ga Ma Admin - Mozilla Firefox
Welcome, admin
22 October, 2012 | Logout
Users
Masters
Content
Songs
Programs
Trivia
Banners
Testimonial
Reports
Miscellaneous
Songs
View
Add
Upload File :
Browse..
debug
(ext allowed .csv)
Sample :
DOWNLOAD SAMPLE
Upload File
Cancel
Instructions
Download sample excel sheet file to know the correct format.
Upload only .csv file format.
Isrc and track language is compulsary fields in the excel sheet.

Add Song

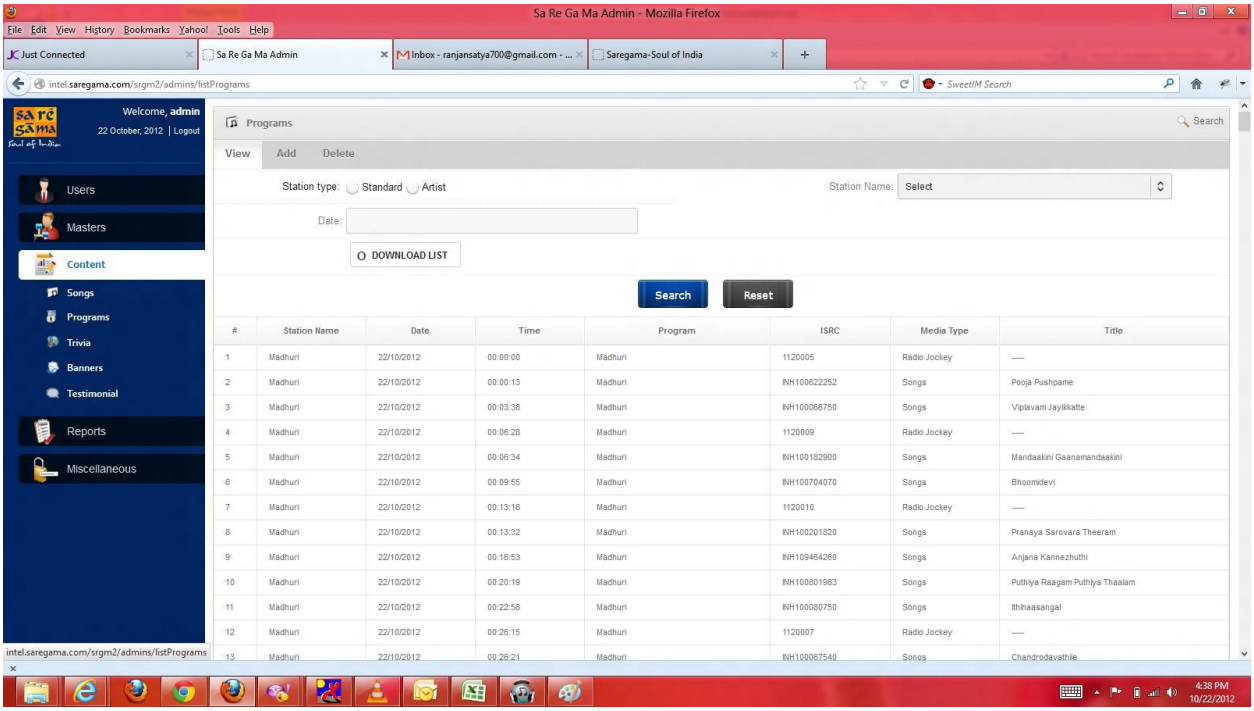
Programs

In the programs section admin can view station name, date, time, programs, ISRC no media type and titles.

Add Programs

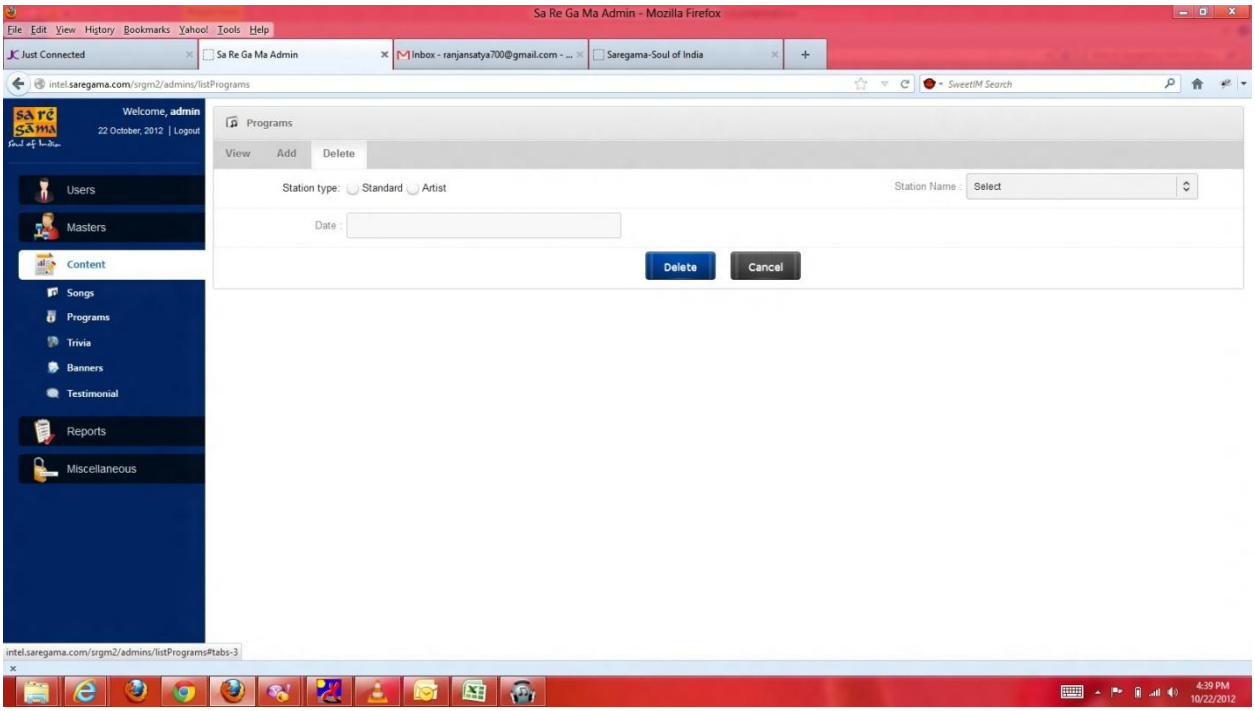
1. All columns in this field are compulsory.
2. Program ISRC Code is a compulsory field.
3. Type should be A,R& S only.
4. Time format should be hh:mm:ss with the 24HR being applied

Path for this: Content ⇨ Programs ⇨ Add Programs



ViewPrograms

Path for this: Content ⇨ Programs ⇨ Delete Programs

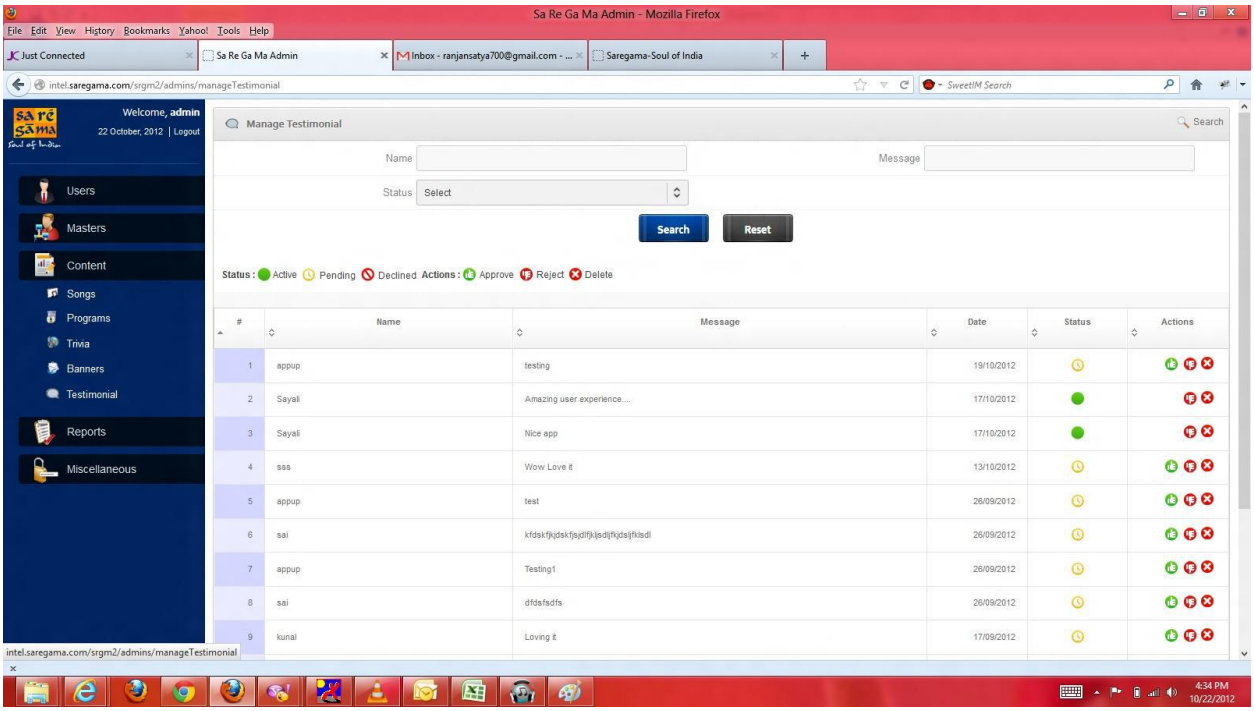


Delete Program

Manage Testimonials

Whenever users add testimonials from user site admin has to approve it for it to be displayed on the user site. Here admin can delete or reject the testimonial.

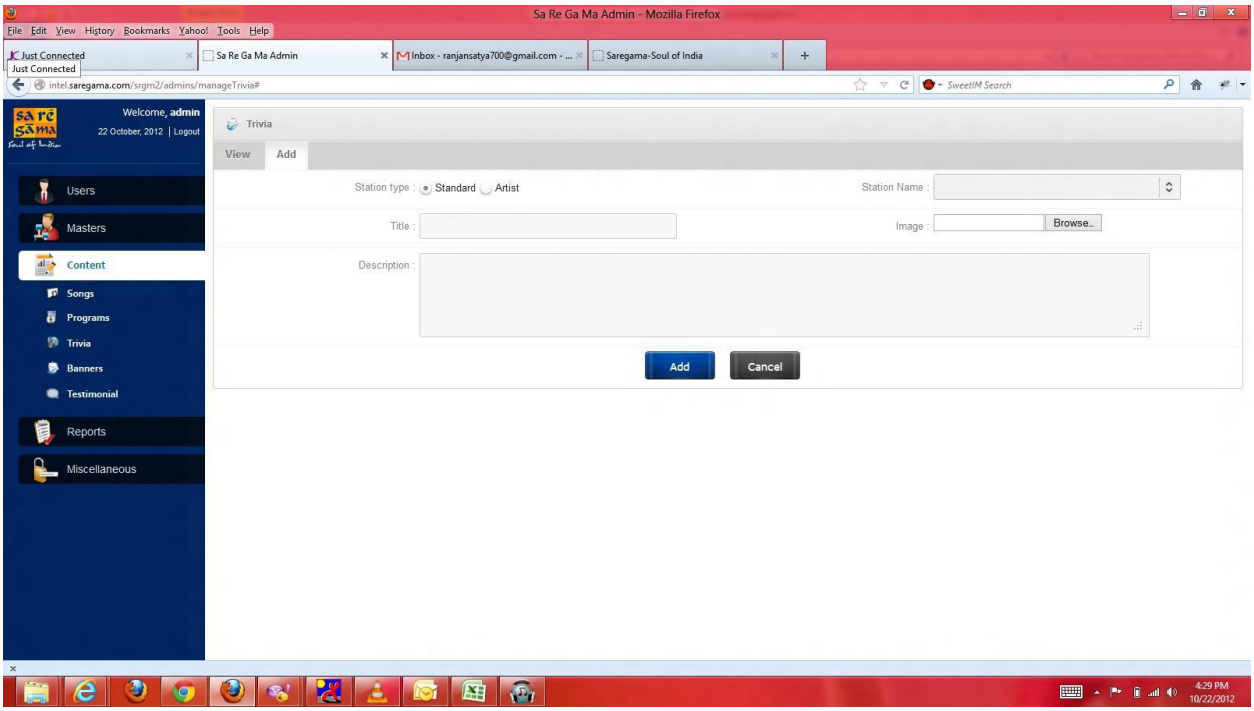
Path for this: Content ⇨ Testimonial



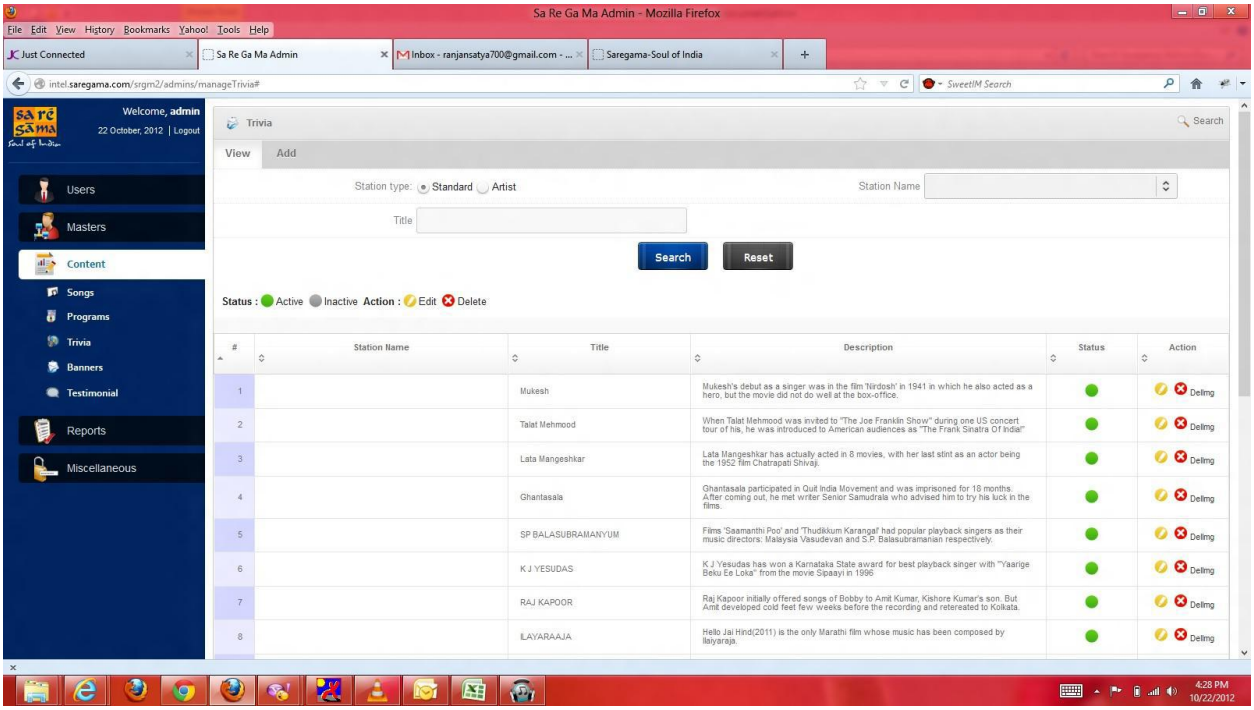
Manage Testimonial

Manage Trivia

This section allows you to manage search and add trivia.



Add TRIVIA



View Trivia

Manage Banners

Manage banners section allow admin to search for banners and add them to the system,

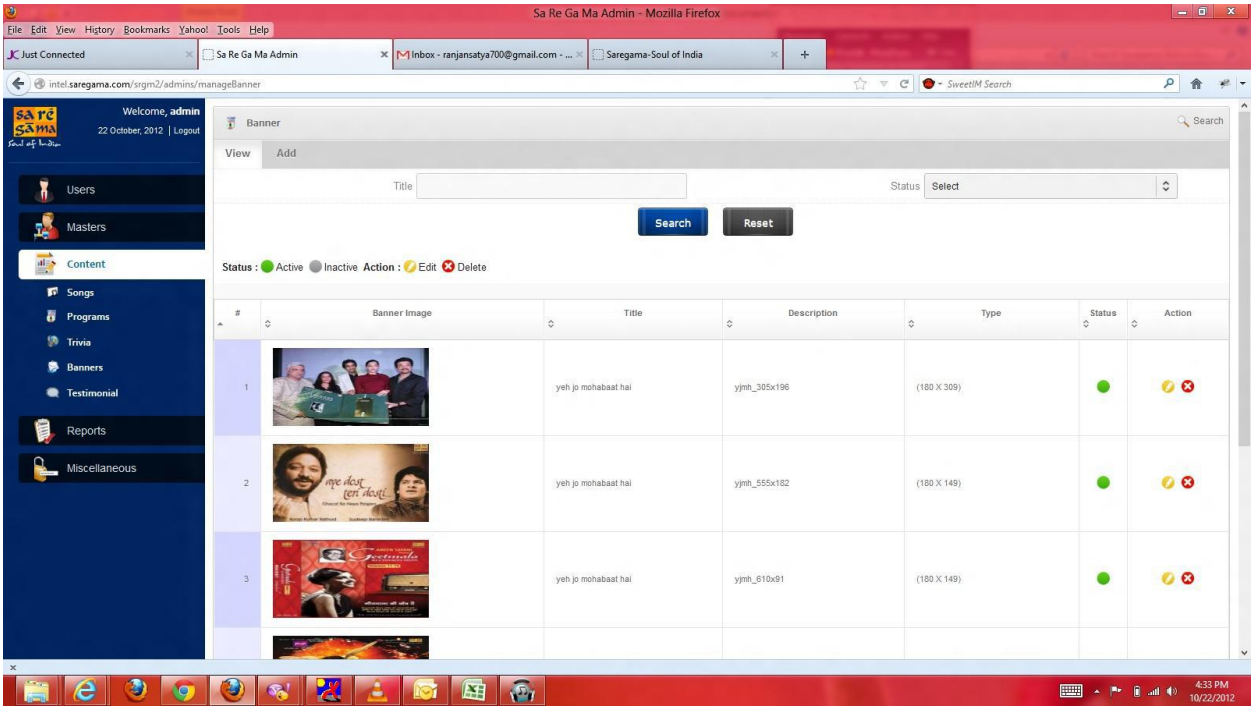
Note: While banners are added its description should not exceed 150 characters.

Banners added in the system must follow the following specifications

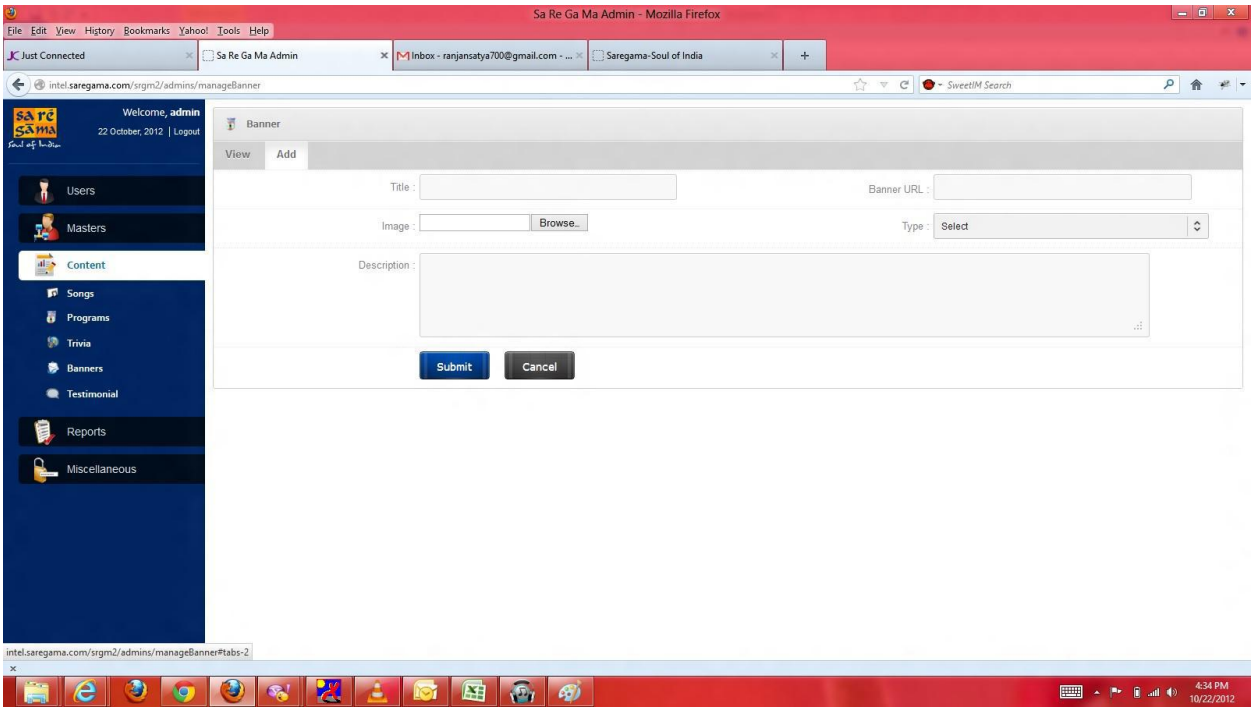
1. **Station art**– 470px width x 251px height
2. **Side bar 1st banner** - 215px width x 302px height
3. **Side bar 2nd banner** - 215px width x 149px height
4. **Artist station art** - 470px width x 613px height
5. **Artist Side bar banner** - 215px width x 613px height
6. **Trivia**- 60px width x 80px height.
7. **Artist Thumbnail**- 104px width x 104px height.

Path for this: Content ⇨ Banners ⇨ Add Banners

Note: Banner URL means if you upload banner like youtube for that banner if u put the banner url as http://www.youtube.com/then on click on that this link should open.



View Banners List 1



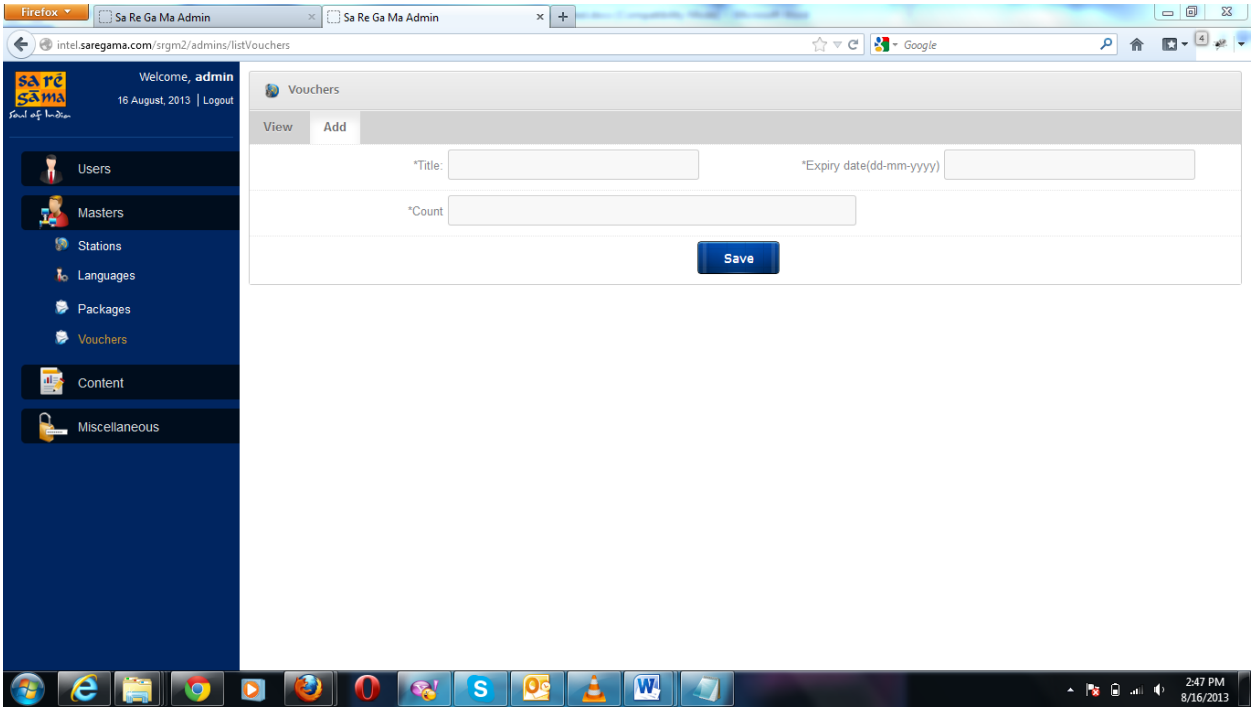
Add Banners

Manage Vouchers

In the SRGM we can add vouchers with their expiry date.

Admin can download all vouchers in .csv file format and the vouchers can be distributed.

Path for this: Masters ⇨ Vouchers ⇨ Add Vouchers



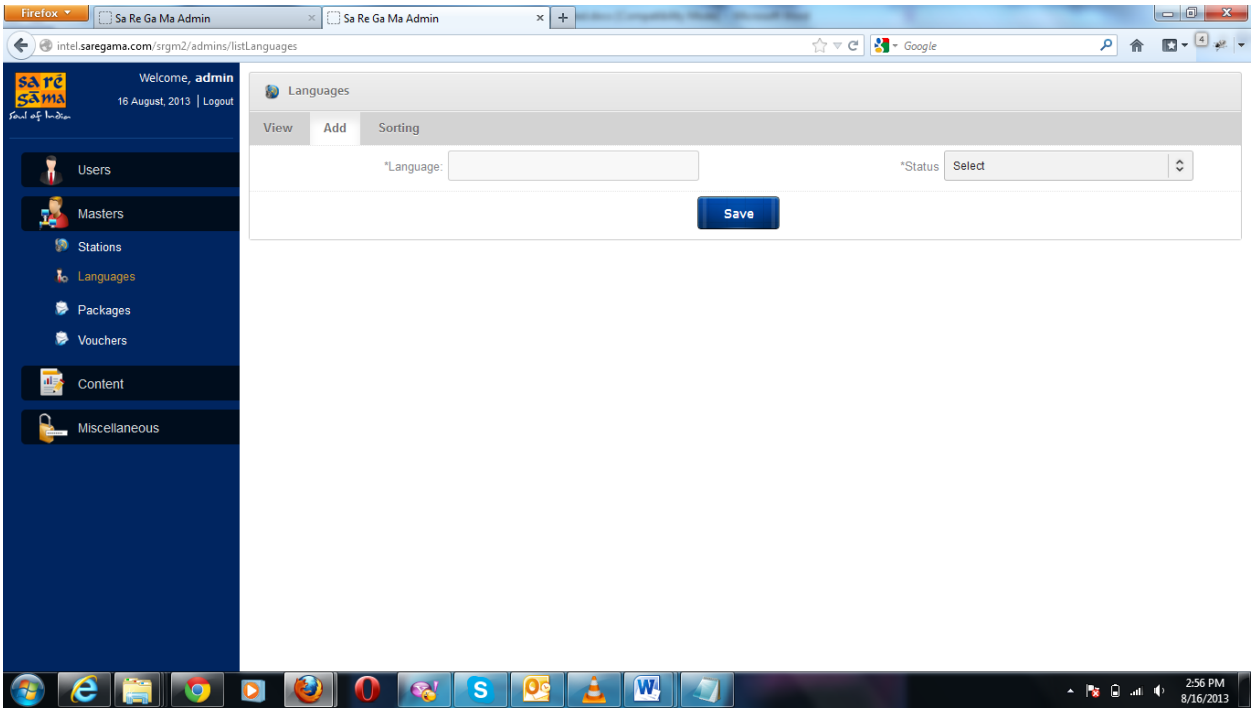
Languages

In SRGM we can add a new language and it will reflect while adding or editing a stations.

Admin can change the status of language from active to inactive state, which will then become

Admin can sort the languages.

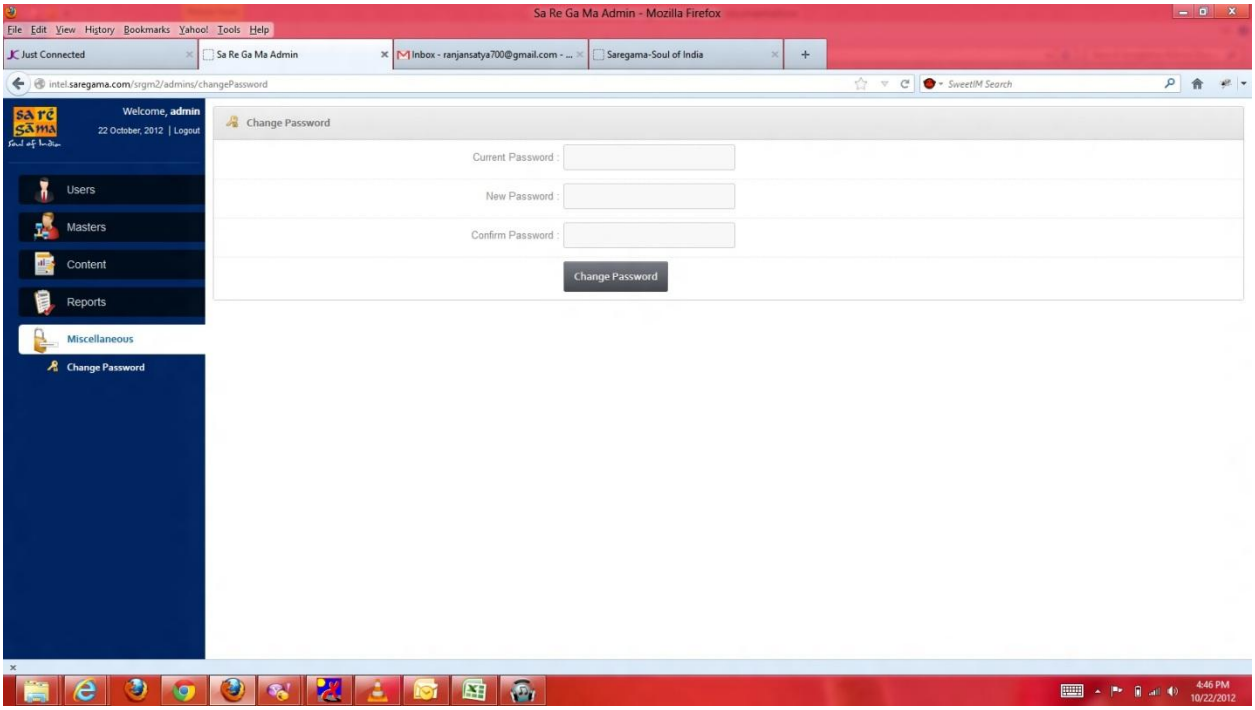
Path for this: Masters ⇨ Languages ⇨ Add Languages



Change Password

In this field admin can change their passwords at any time.

Path for this: Go to Miscellaneous ⇨ Change Password



Change Password

Reference API

Refer to excel file

SRGM_Refrence_Api.xlsx