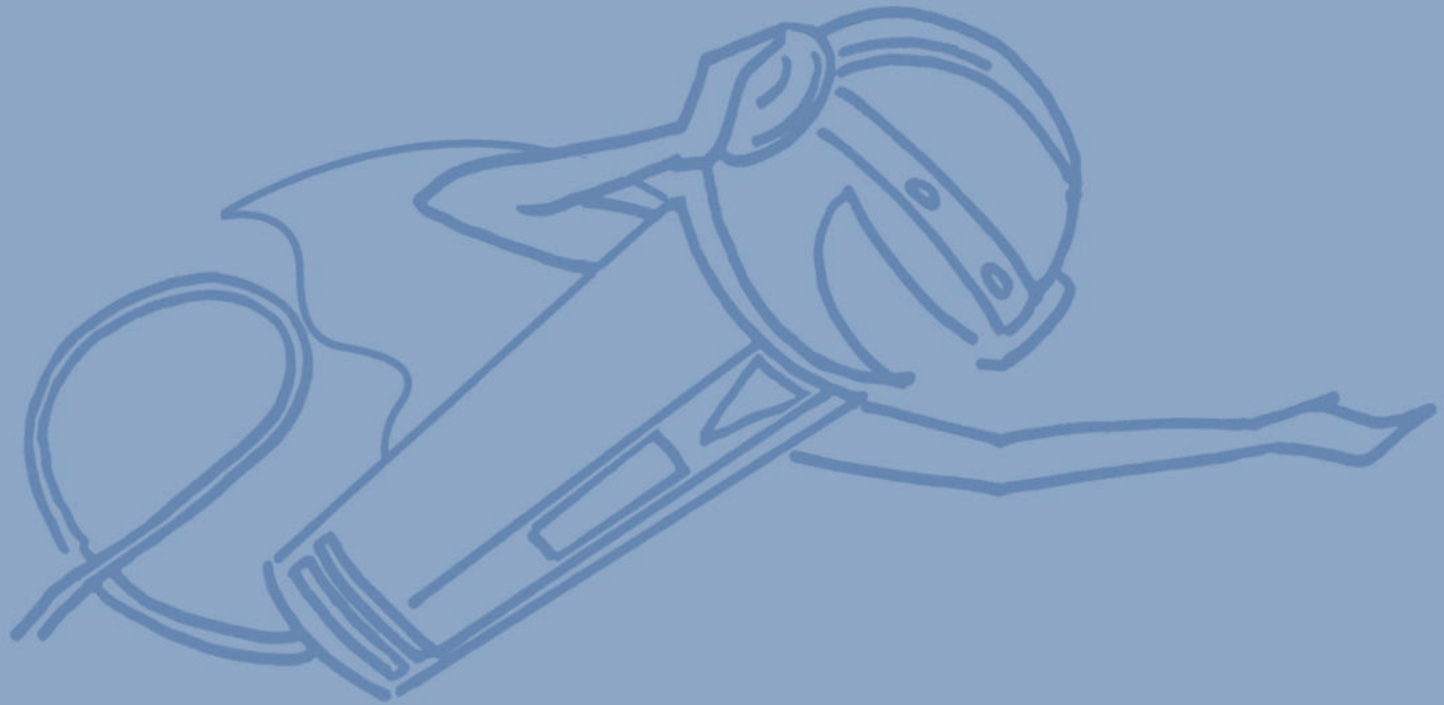
Summer project

@ Sensibol Audio Technologies Pvt. Ltd.,

S RAMPRASAD 126330011 Interaction Design



SensiBel
Audio Technologies

SensiBOL
Audio Technologies

Usability tests

Usability tests > Problems

Usability tests > Problems > Solution Prototypes

Usability tests > Problems > Solution Prototypes > Final solution

Think aloud testing

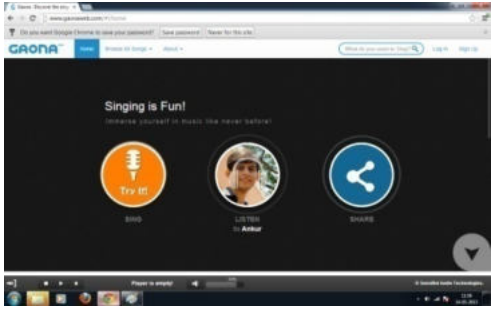
Insights from 20 users (12 male, 8 female)

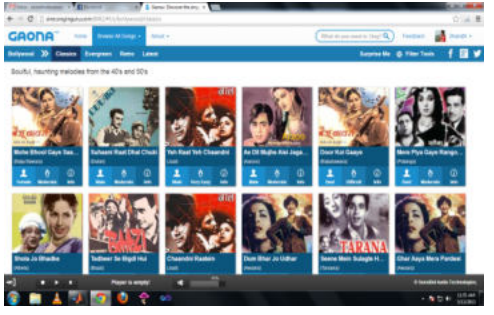
Key questions

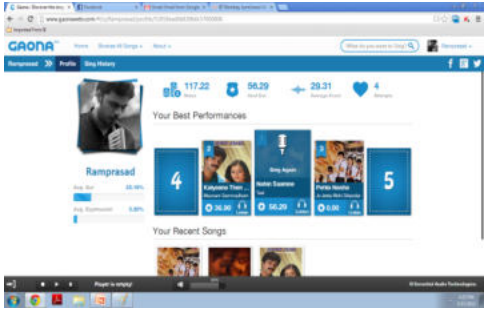
- Are they able to understand Gaona's intent and the general working of the site ?
- Are they able to understand the introductory slides?
- Are they able to try and understand the "demo" song and in the process configure their mike comfortably?
- Are they able to login without any difficulty?
- Are they able to choose a song from the list?
- Are they able to sing and understand the "sing along" interface?
- Are they able to "listen" to their own recording and others' recording?

The flow expected

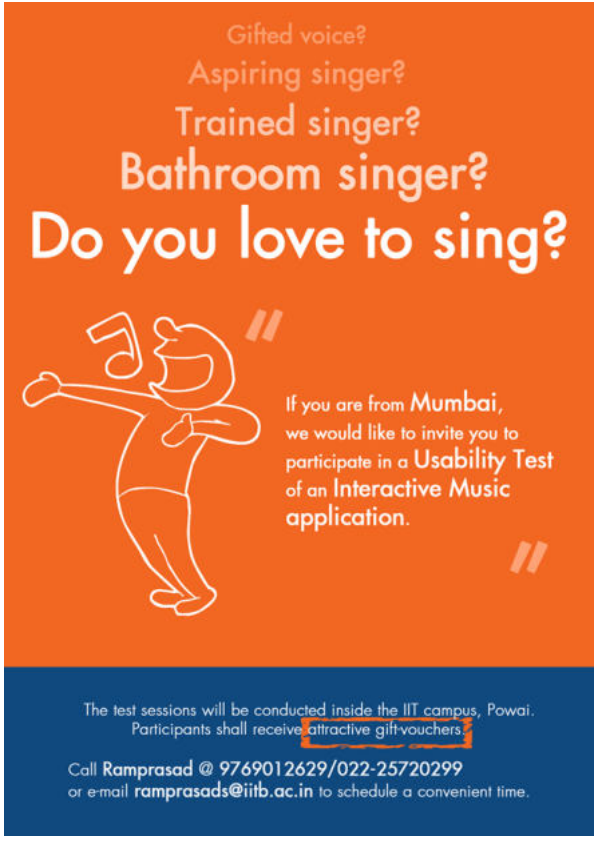
- Open home page
- Open “try it” and understand the working of the site
- Configuring the mike and giving the “demo song”
- Browse the songs and choosing using the filter options
- Try singing song and trying to understand the UI of the “sing along” mode.
- Trying to listen to the mix with their voice.







The invite

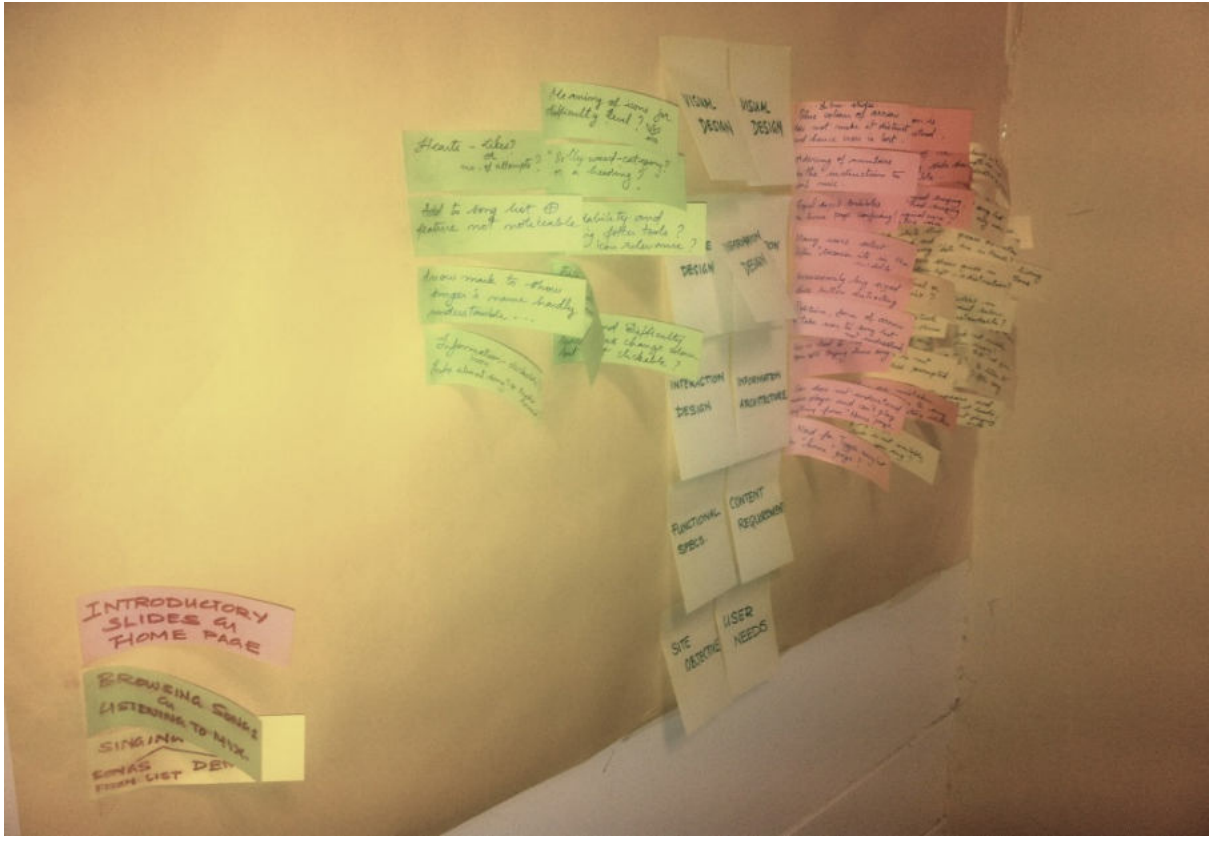

Gifted voice?
Aspiring singer?
Trained singer?
Bathroom singer?
Do you love to sing?
If you are from Mumbai, we would like to invite you to participate in a Usability Test of an Interactive Music application.
The test sessions will be conducted inside the IIT campus, Powai.
Participants shall receive attractive gift-vouchers.
Call Ramprasad @ 9769012629/022-25720299
or e-mail ramprasads@iitb.ac.in to schedule a convenient time.

Method

The method for the study included the following elements:

- Usability test instrument was pilot-tested with one participant and revised prior to use.
- Sessions were conducted during a week period from May 10th to 17th,2013.
- Usability test sessions averaged approximately 30 minutes.
- Participants were asked to perform a think aloud protocol in which they described their thoughts as they completed each task.
- Empirical data was recorded by note-taking and in some cases audio-taping.
- Data collection was suspended when redundancy of data was reached(when around 20 users' tests were done).
- Data analysis involved the identification of patterns of usage and common difficulties faced by the users because of inefficient design.

Compiling and prioritizing problems



Compiling and prioritizing problems

3 major problem areas in the user experience

- Microphone Configuration Process.
- Singing Karaoke Interface.
- Home page.

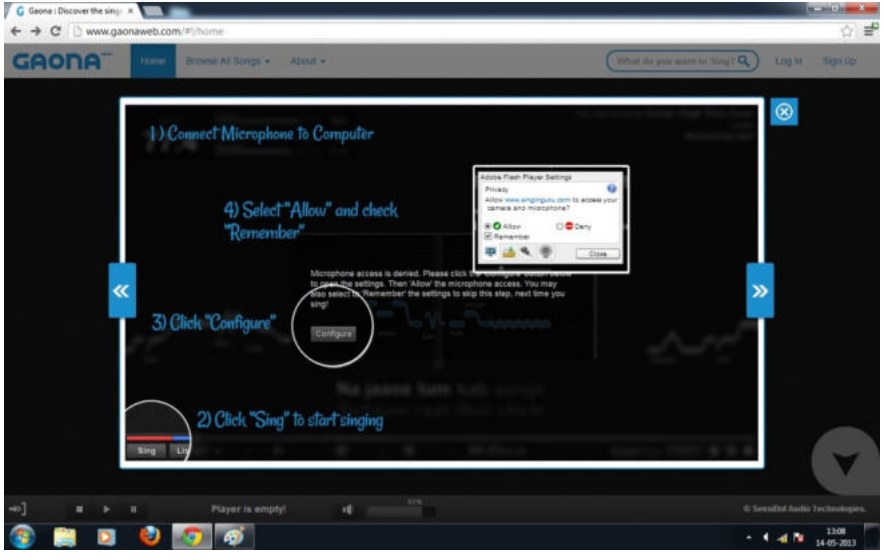
These three areas were mainly chosen because they demanded a complete redesign in the way they work and look to allow efficient user interaction.

Redesigning

“Microphone Configuration Process”

“Microphone Configuration Process”

The microphone configuration process included more than two lines of instructions that actually led many of the users close the dialogue box and proceed to singing without checking the microphone status.



Solution scenario

Microphone access
denied !

click here ..... CONFIGURE

Select ‘Allow’

Select ‘Remember’

then ‘Close’

Default
Microphone (IDT High Definition Audio CODEC)

Select your microphone

say 'I love singing'

click DONE to start singing

Redesigning

“Singing Karaoke interface”

Gaona : Discover the singe
www.gaonaweb.com/#!/sing/Aashiyan/5162b9b1bbe1010dc4000003
Do you want Google Chrome to save your password?
Save password
Never for this site
GAONA
Home
Songs
Singers
About
barfi
Feedback
Log In
Sign Up
84.4
High Score
26
Attempts
Aashiyan
Barfi
Nikhil Paul George
Score
0.0
ख्वाबों
के
तिनकों
से
चल
बनाएं
आशियां
इत्ती सी
हंसी
इत्ती
सी
इत्ता सा
खूशी
टूकडा
चांद
का
इत्ती सी हंसी
Free Download
Download Manager
Loading
YouTube
Cancel
Submit
00:21/02:05
GAONA
English
the ski final prese...
Microsoft PowerP...
Gaona : Discover t...
19:21
03-06-2013

Insights and ideas from the usability tests

During “Demo song”

1. Message appearing at the right time
   a. to inform the user to click “sing” and to not wait till it loads fully.
   b. to “sing along” for that particular singer – Kishore Kumar
   c. to inform user when he tries to “seek or pause”.

2. Once the “demo” song is over, users should be given clearer choices and be lead to pages according to their selection.

3. Removing the continuously changing “clue bar” to remove distractions and adding say, a mascot, which emotes based on the performance as well as helps when the user is clueless.

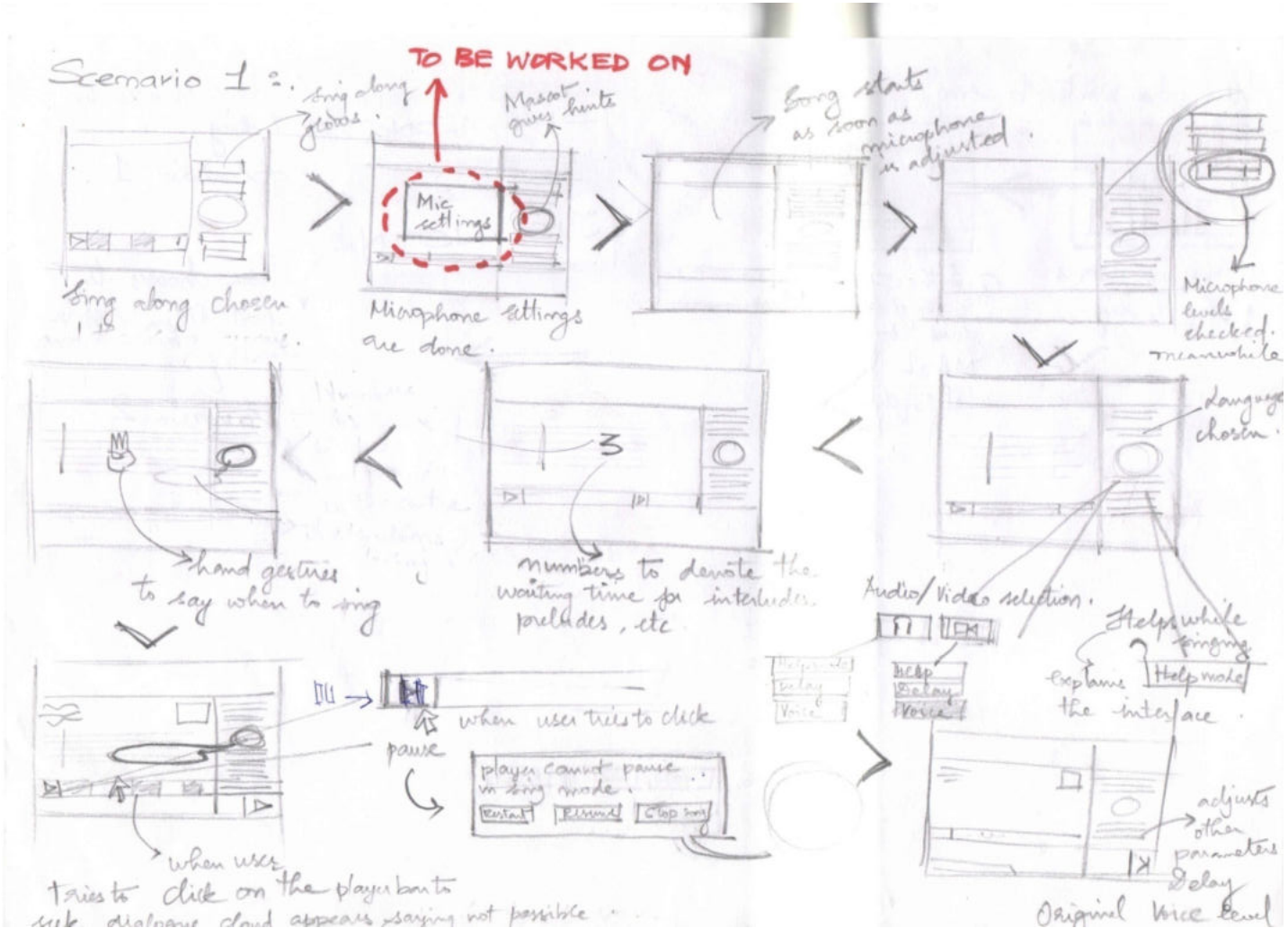
4. Work on the UI of the controls, buttons (small controls and miscommunications to be checked), positioning elements etc.

5. Displaying lyrics only when needed.

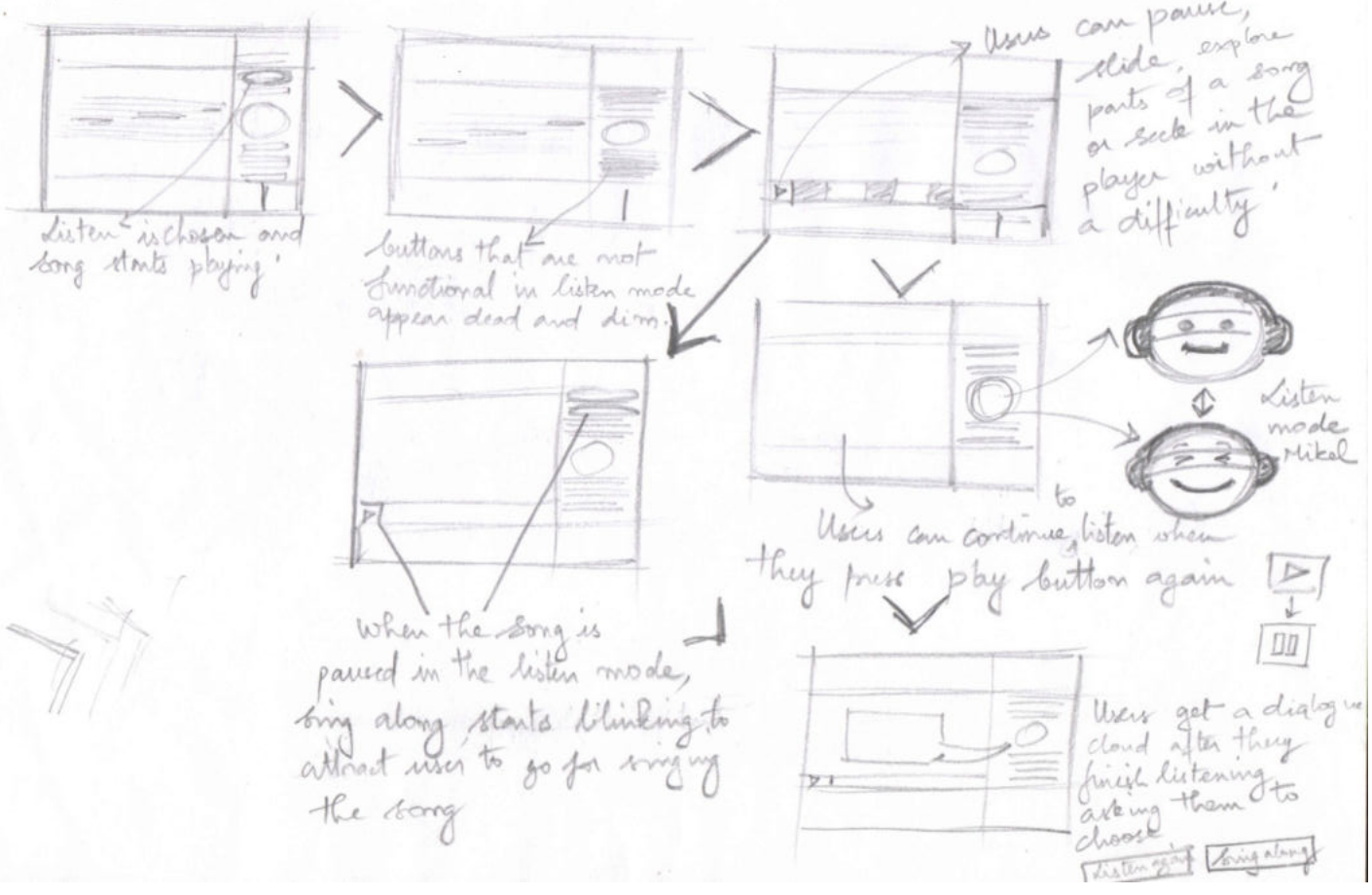
for “SKI Interface”

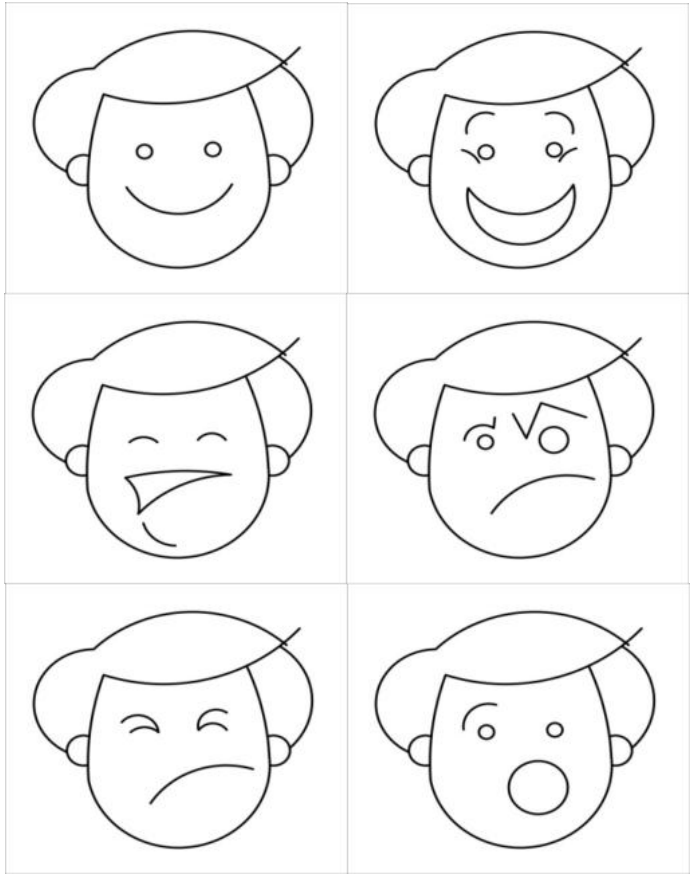
1. Less text and more visuals (configuring the mic. & comments).
2. Terminology issues that confuse some of the users – octave, delay, vocals level, listen mix, *antras*, *mukhdas* etc.,
3. Correcting the delay on the screen using the delay slider can be made more understandable.
4. Too many colours on the seek bar makes the interface more complex and therefore a maximum of two colours shall help for the same purpose.
5. Transposition Option

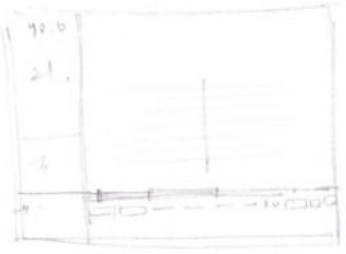
The Solution process and Iterations

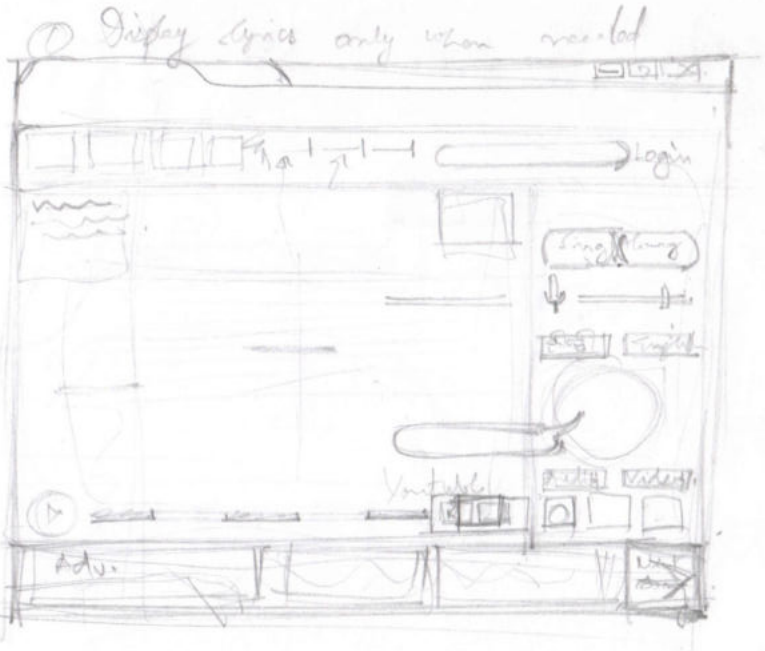

Scenario 1 :
TO BE WORKED ON
sing along goods.
Mascot gives hints
Mic settings
Sing along chosen
Microphone settings are done.
Song starts as soon as microphone is adjusted.
Microphone levels checked.
Language chosen.
3
numbers to denote the waiting time for interludes, preludes, etc
hand gestures to say when to sing
Audio/Video selection.
Help while singing
Help mode
explains the interface.
when user tries to click pause
player cannot pause in sing mode.
Restart
Rewind
Stop sing
when user tries to click on the player bar to
adjusts other parameters
Delay
Original Voice Level

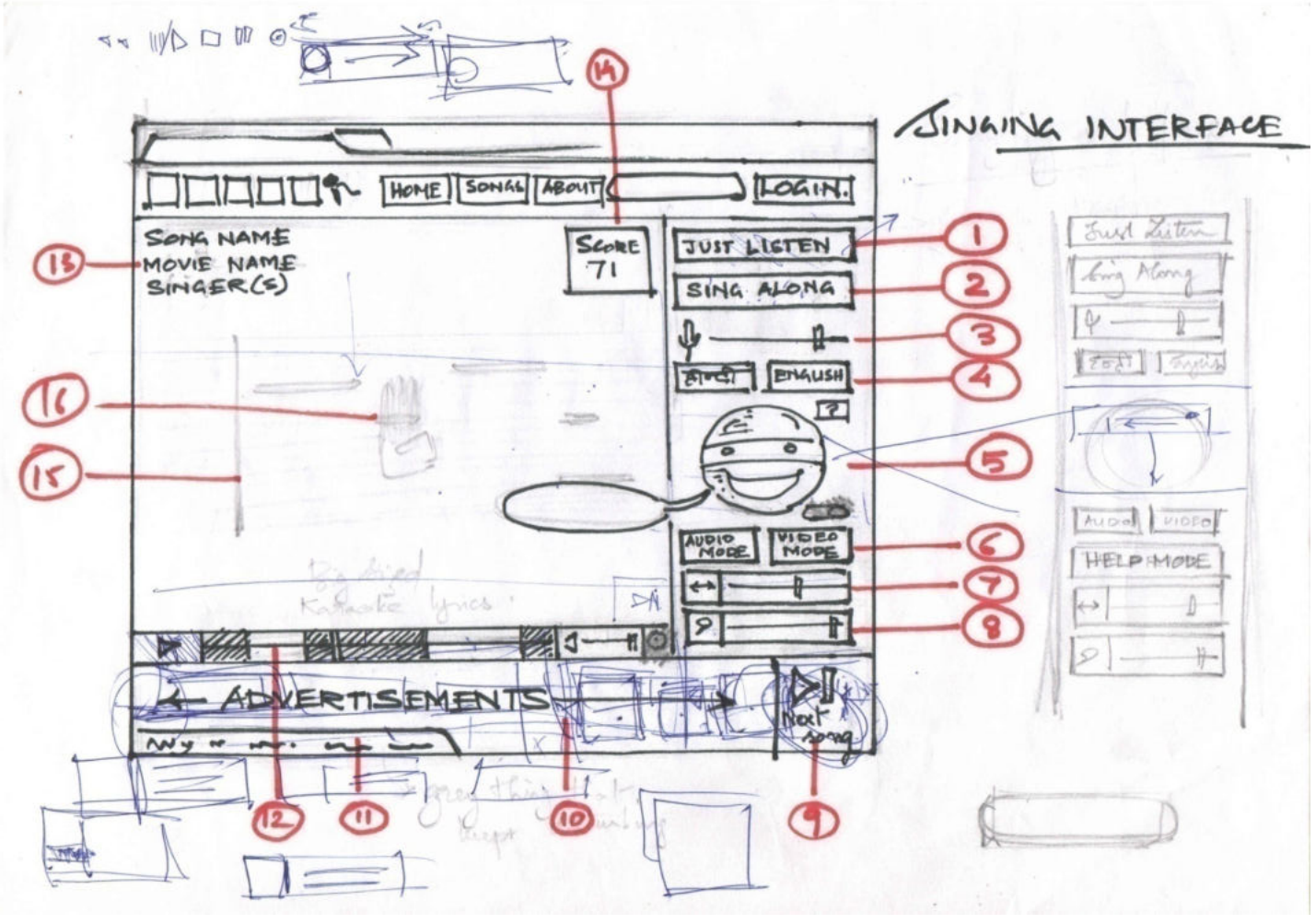
Scenario 2

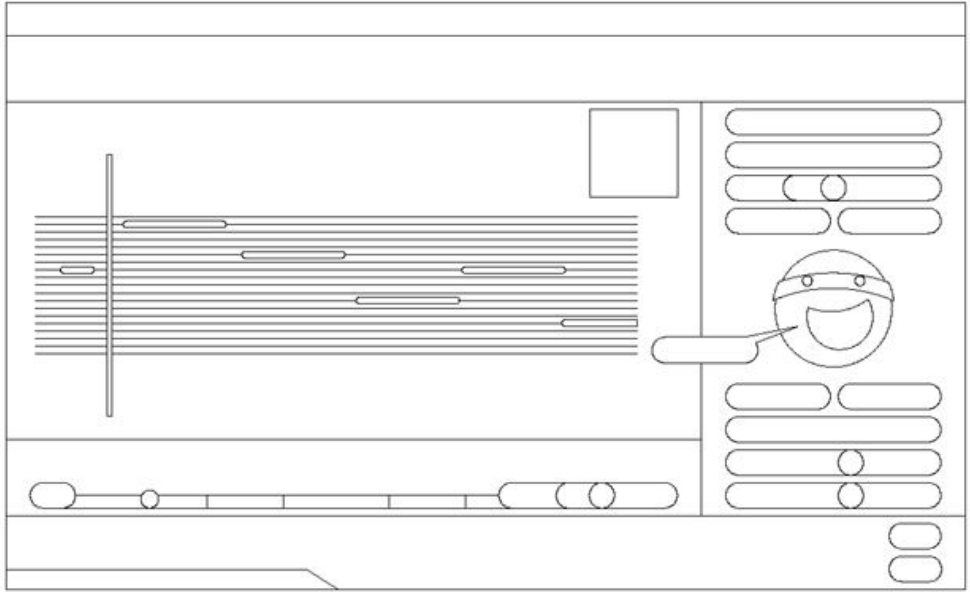

'Listen' is chosen and song starts playing'
buttons that are not functional in listen mode appear dead and dim.
Users can pause, slide, explore parts of a song or seek in the player without a difficulty'
Listen mode Mikal
to
Users can continue listening when they press play button again
When the song is paused in the listen mode, sing along starts blinking to attract users to go for singing the song
Users get a dialogue cloud after they finish listening asking them to choose
Listen again
Sing along

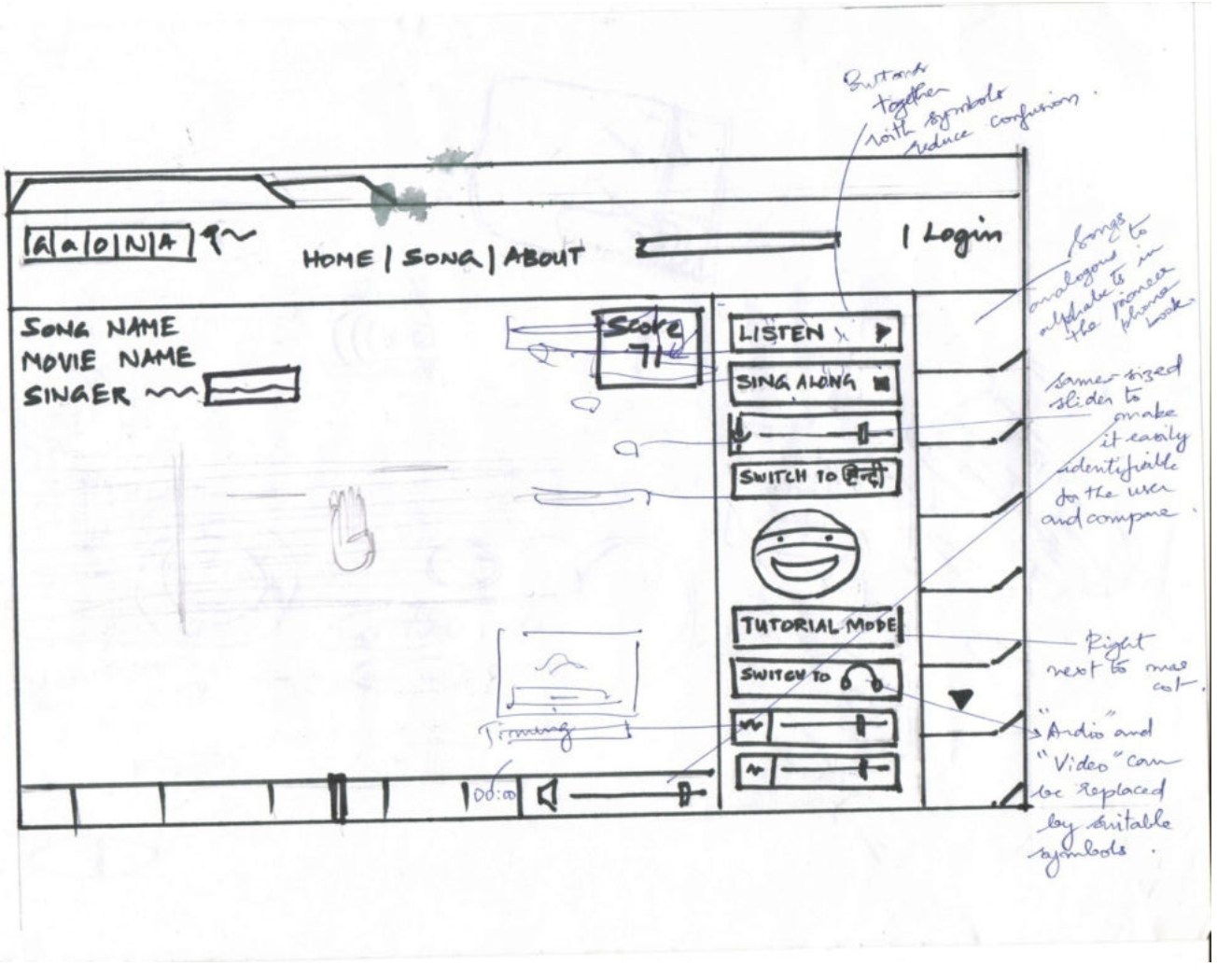


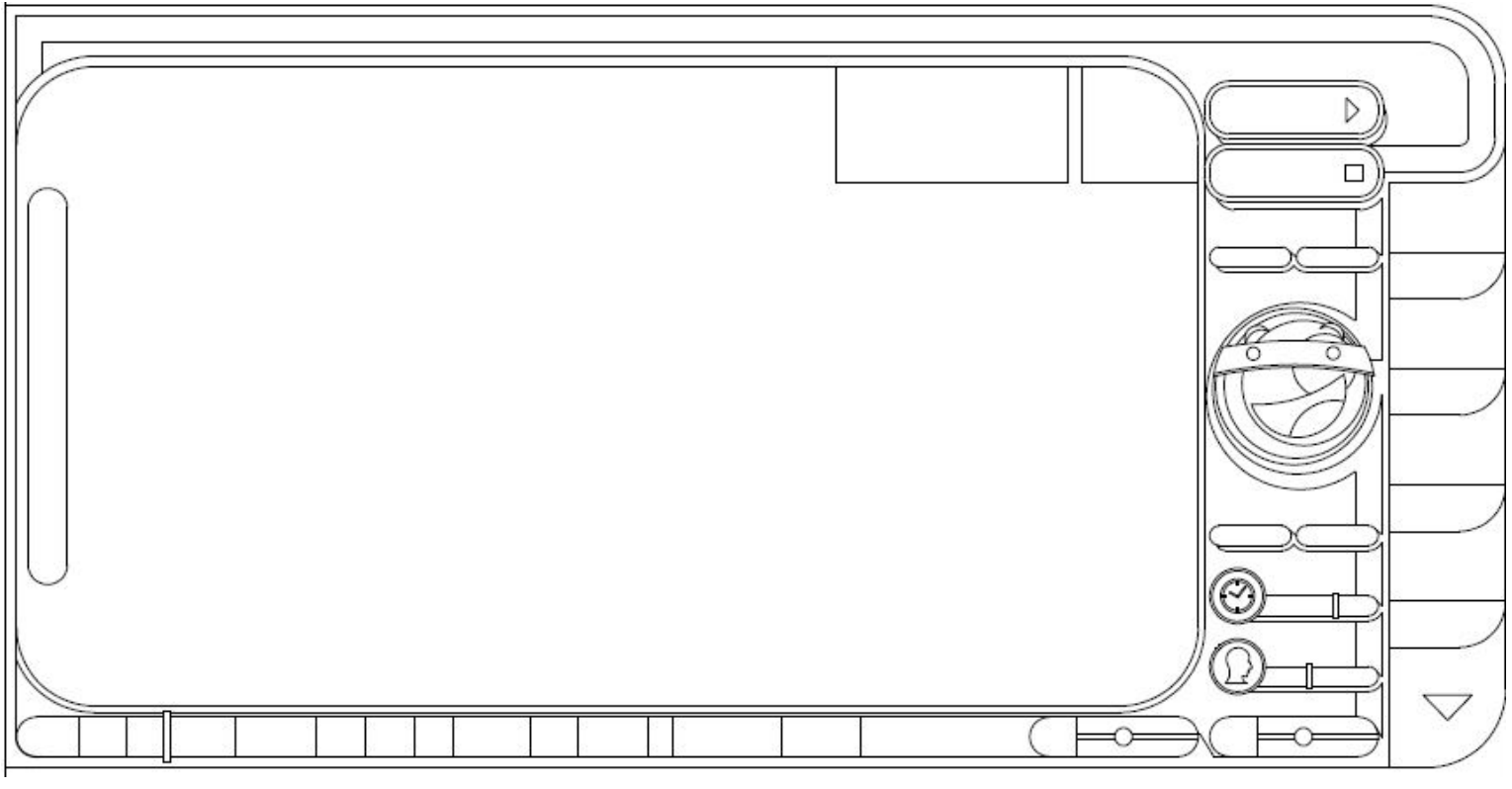


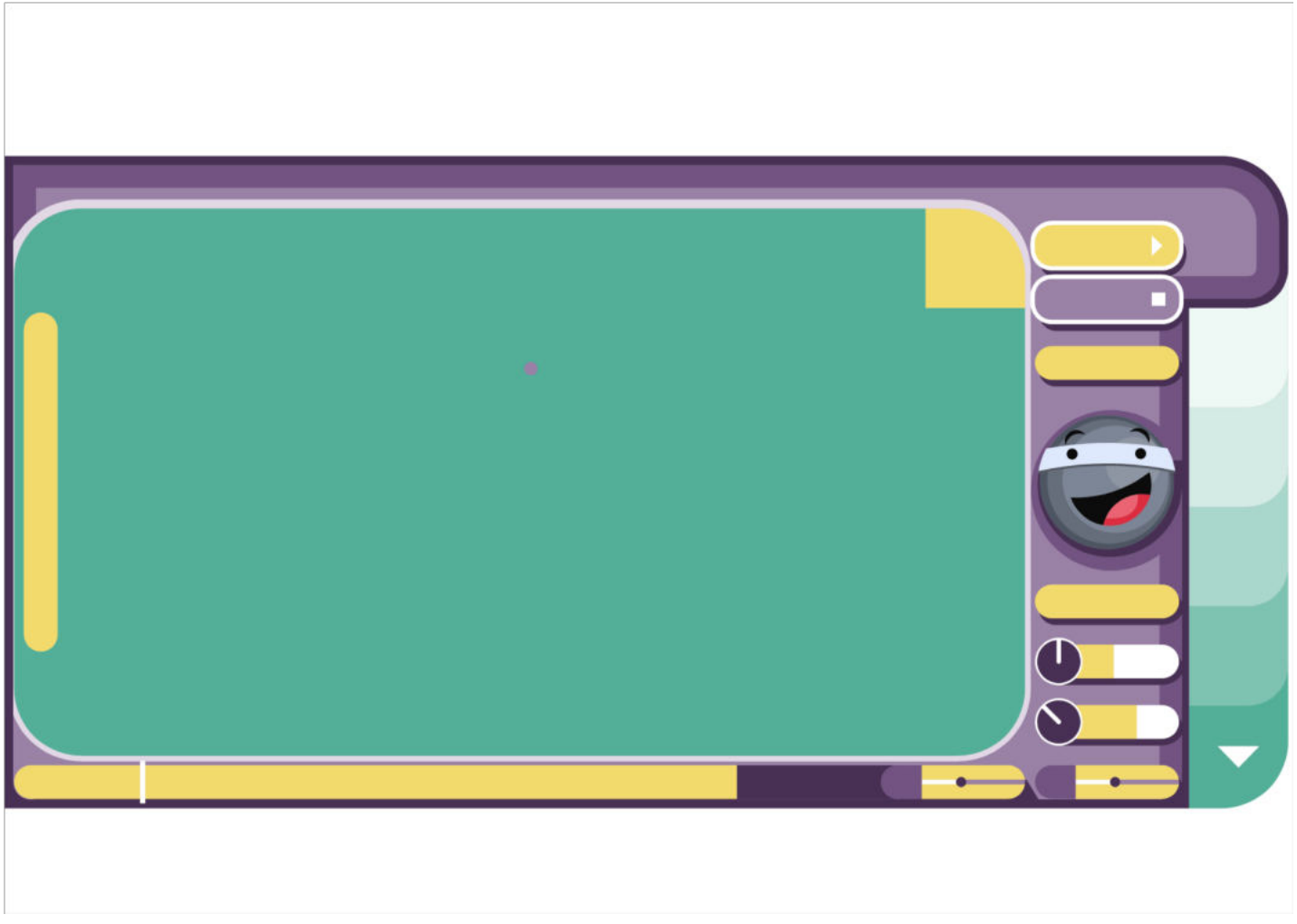

Display Lyrics only when needed
Login
Adv.

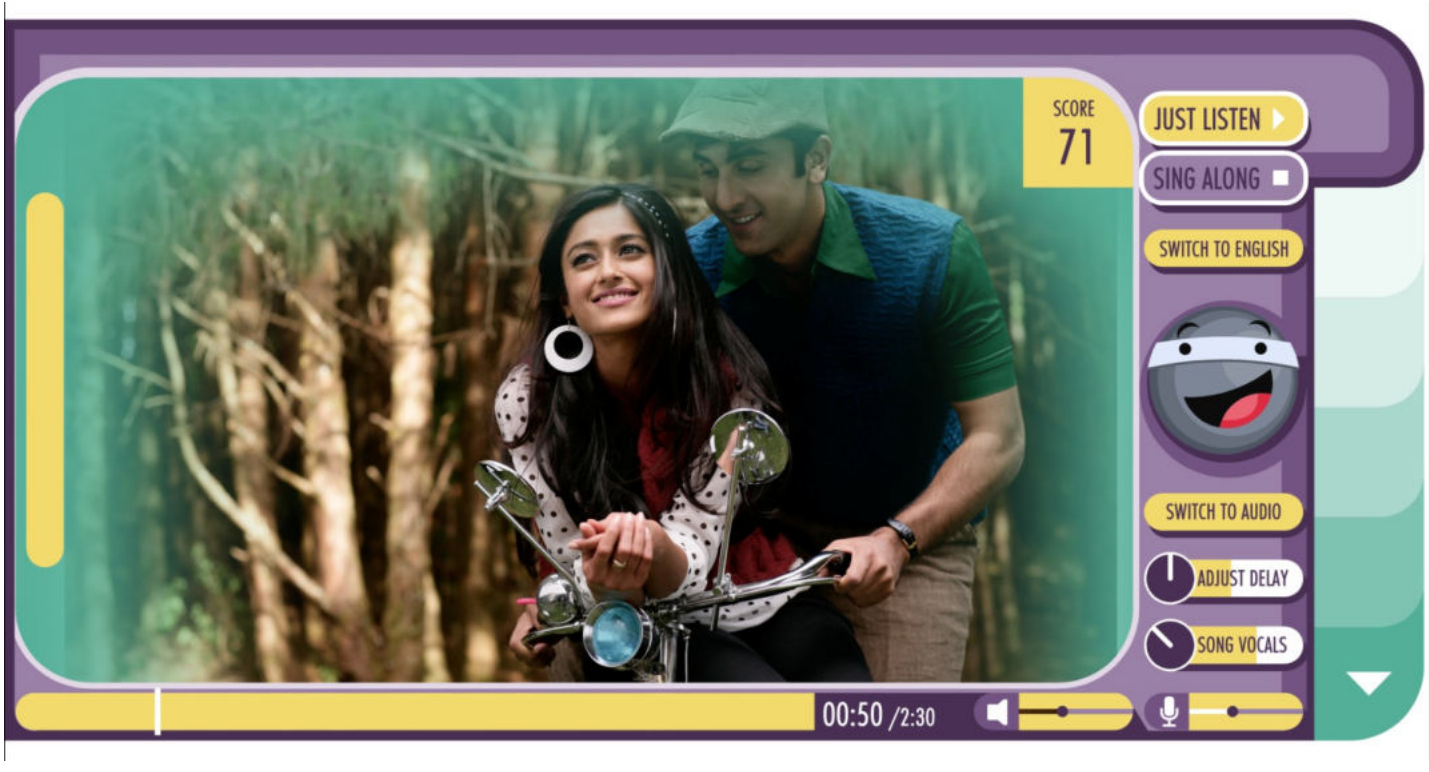

SINGING INTERFACE
HOME
SONGS
ABOUT
LOGIN
SONG NAME
MOVIE NAME
SINGER(S)
SCORE
71
JUST LISTEN
SING ALONG
ENGLISH
AUDIO MODE
VIDEO MODE
ADVERTISEMENTS
Next song
HELP MODE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

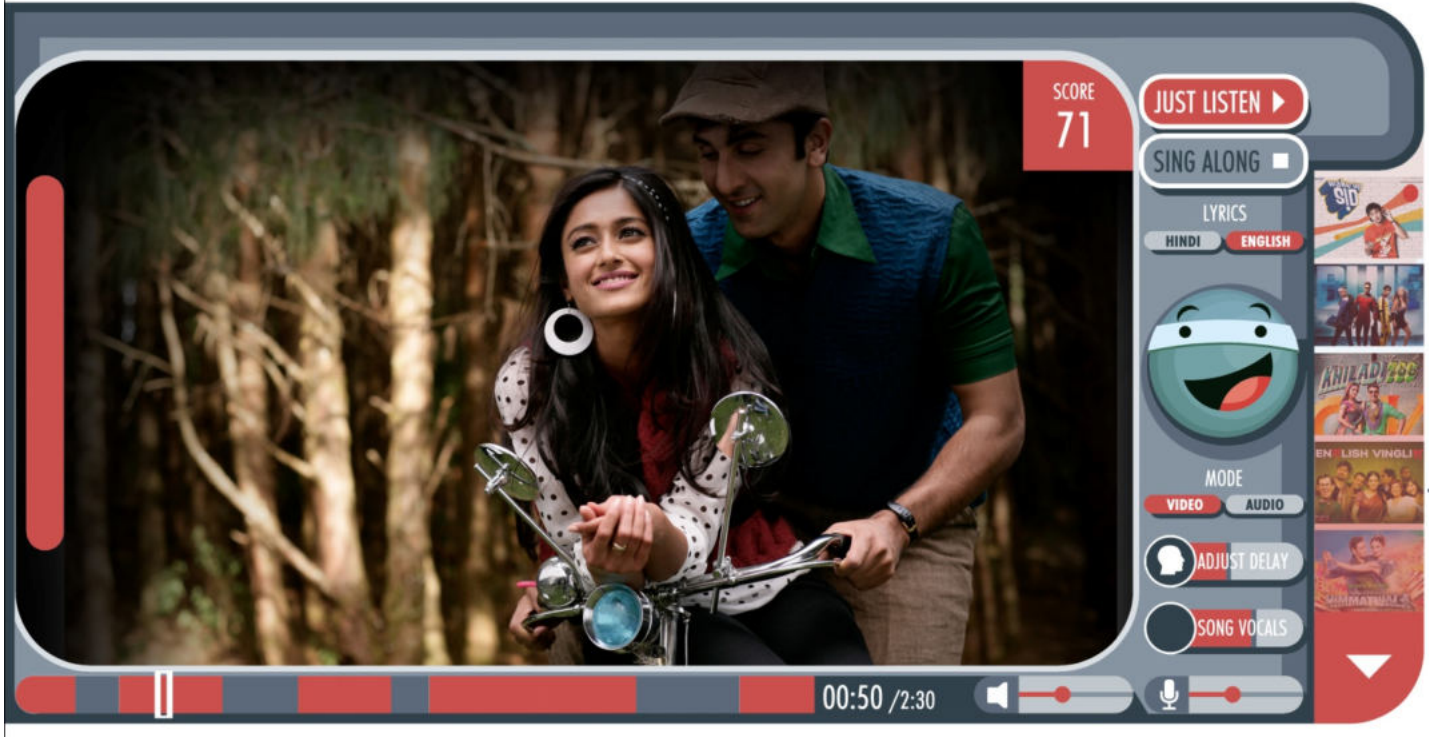



Buttons together with symbols reduce confusion.
AAONA
HOME | SONG | ABOUT
| Login
SONG NAME
MOVIE NAME
SINGER
Score
LISTEN
SING ALONG
SWITCH TO हिन्दी
TUTORIAL MODE
SWITCH TO
Timing
00:00
songs to analogous alphabets in the pioneer phrase book
same sized slider to make it easily identifiable for the user and compare.
Right next to mute cut.
"Audio" and "Video" can be replaced by suitable symbols.

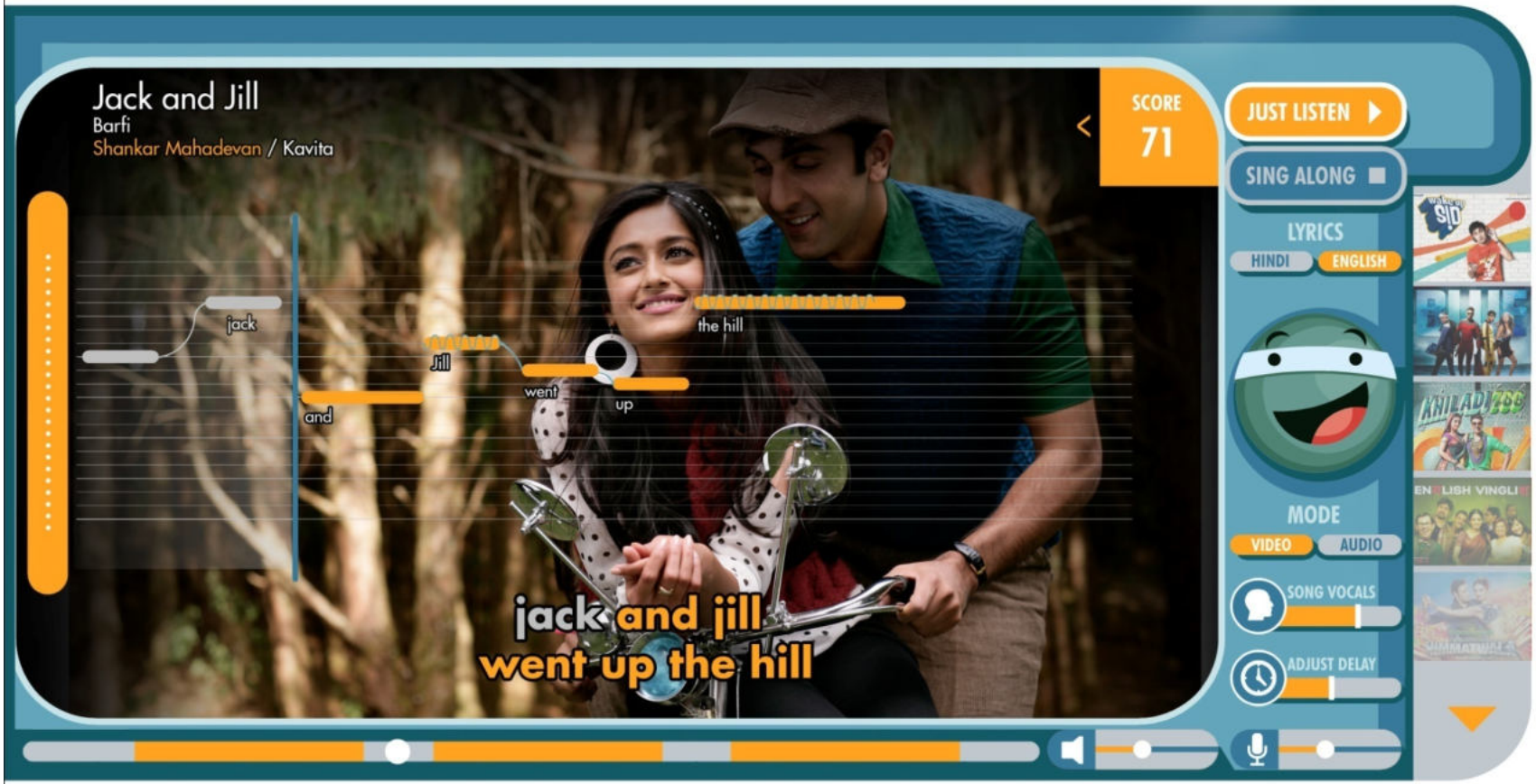





SCORE
71
JUST LISTEN
SING ALONG
SWITCH TO ENGLISH
SWITCH TO AUDIO
ADJUST DELAY
SONG VOCALS
00:50 /2:30


SCORE
71
JUST LISTEN
SING ALONG
LYRICS
HINDI
ENGLISH
MODE
VIDEO
AUDIO
ADJUST DELAY
SONG VOCALS
00:50 /2:30

The final one…


Jack and Jill
Barfi
Shankar Mahadevan / Kavita
SCORE
71
JUST LISTEN
SING ALONG
LYRICS
HINDI
ENGLISH
MODE
VIDEO
AUDIO
SONG VOCALS
ADJUST DELAY
jack
and
Jill
went
up
the hill
jack and jill
went up the hill

How it works!

Gaona : Discover the singe

www.gaonaweb.com/#!/s/bollywood/classics

GAONA alpha

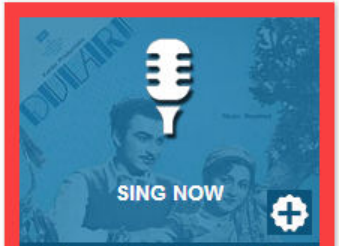
Home | Songs | Singers | About | What do you want to Sing? | Feedback | Log In | Sign Up

Bollywood | Classics | Evergreen | Retro | Latest | Surprise Me | Filter Tools

Soulful, haunting melodies from the 40's and 50's

Mohe Bhool Gaye Saa...
(Baiju Bawara)
Female | Moderate | Info

Awara Hoon
(Awaara)
Male | Easy | Info



Suhaani Raat Dhal Chuki
(Dulari)
Male | Moderate | Info

Yeh Raat Yeh Chaandni
(Jaal)
Male | Very Easy | Info

Ae Dil Mujhe Aisi Jaga...
(Aarzoo)
Male | Moderate | Info

Door Koi Gaaye
(Baijubawara)
Duet | Difficult | Info

Shola Jo Bhadke
(Albela)
Duet | Easy | Info

Tadbeer Se Bigdi Hui
(Baazi)
Female | Easy | Info

Mere Piya Gaye Rango...
(Patanga)
Duet | Moderate | Info

Ghar Aaya Mera Pardesi
(Awaara)
Female | Moderate | Info

00:00 00:00 80%

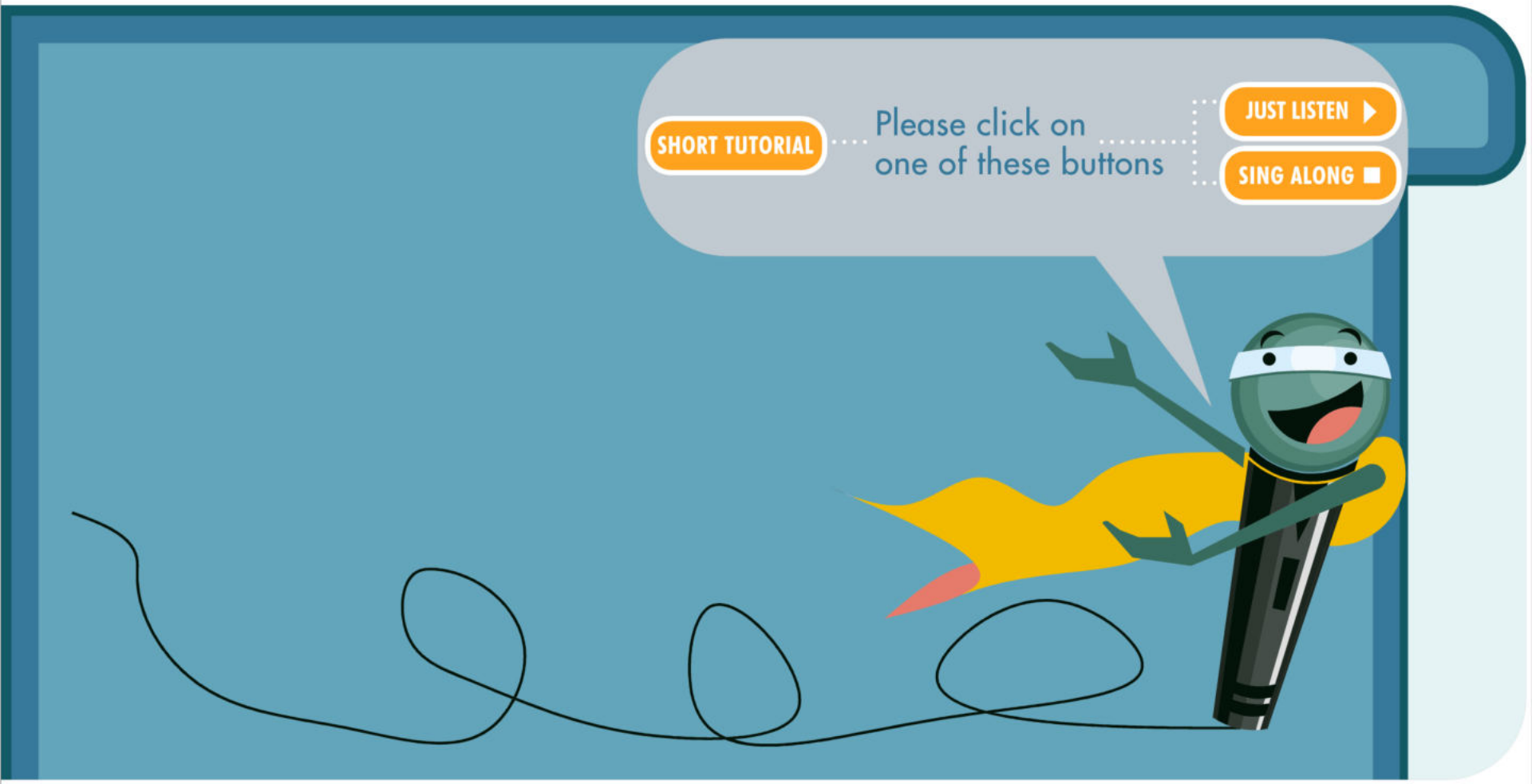
Player is empty!

© SensiBol Audio Technologies.

www.gaonaweb.com/#!/sing/Suhaani Raat Dhal Chuki/506bbea71765f517b800007b

the ski final prese... | Inbox (3,068) - ra... | Gaona : Discover t... | 5.png @ 12.5% (fi...

18:14
03-06-2013


SHORT TUTORIAL
Please click on
one of these buttons
JUST LISTEN
SING ALONG

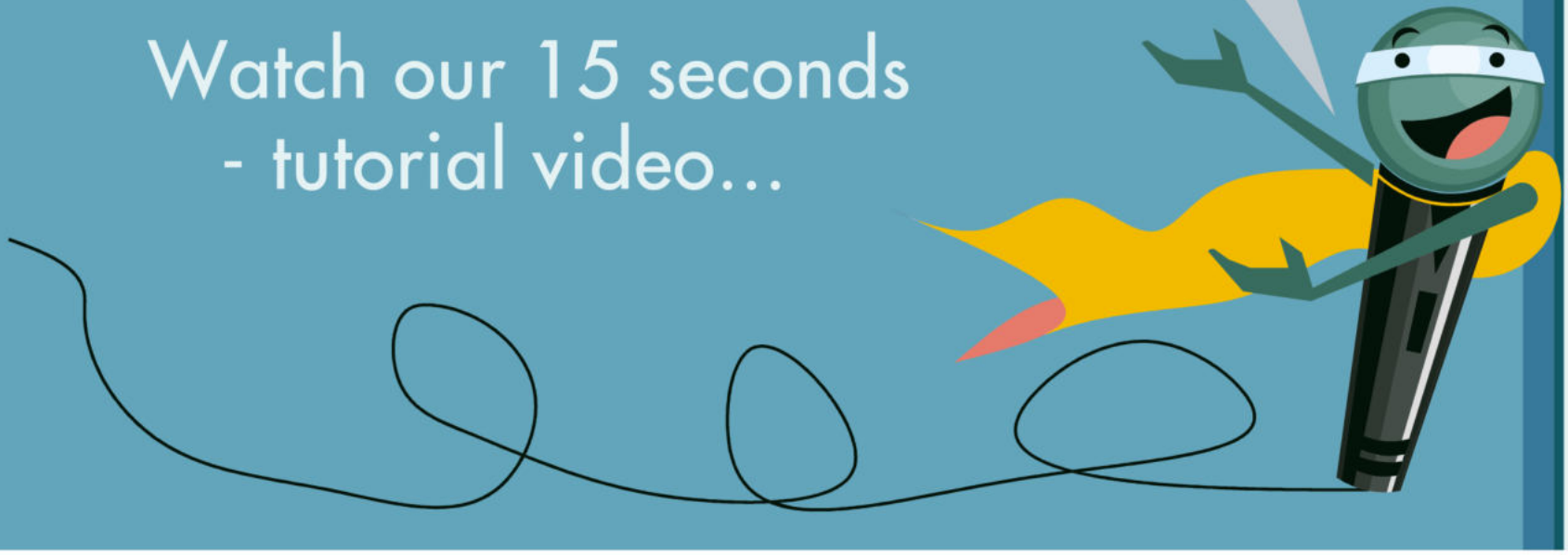
SHORT TUTORIAL

Please click on one of these buttons

JUST LISTEN

SING ALONG

Watch our 15 seconds - tutorial video...



SHORT TUTORIAL

Please click on one of these buttons

JUST LISTEN

SING ALONG

Just listen to song before singing...

SHORT TUTORIAL

Please click on one of these buttons

JUST LISTEN

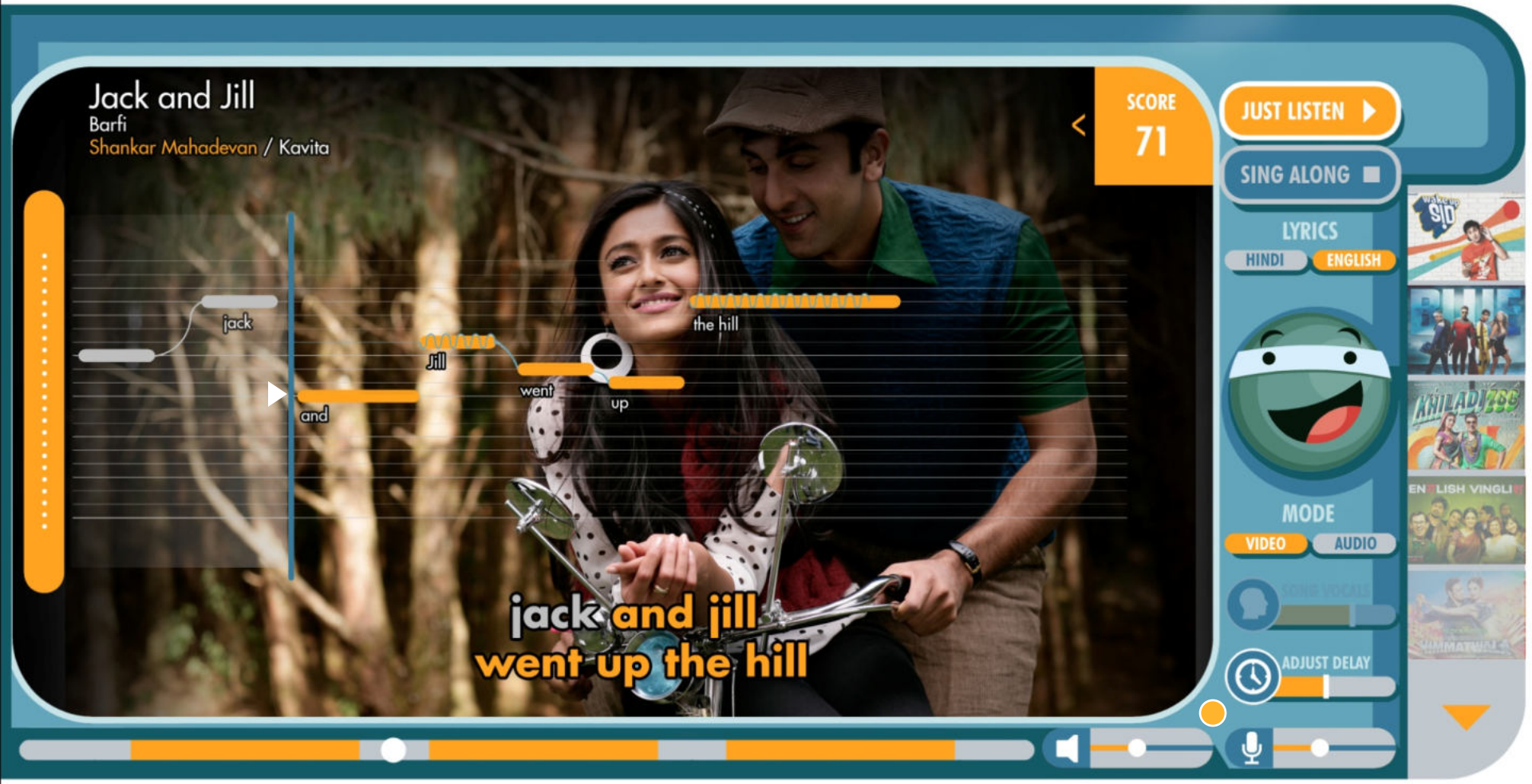
SING ALONG

go on...

Gaana

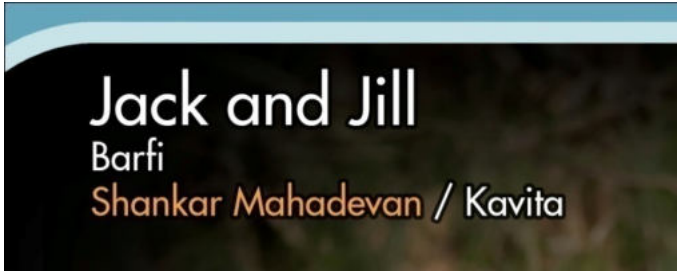
bring out the singer in you...

please use your headphones
when you sing....


Jack and Jill
Barfi
Shankar Mahadevan / Kavita
SCORE
71
JUST LISTEN
SING ALONG
LYRICS
HINDI
ENGLISH
MODE
VIDEO
AUDIO
ADJUST DELAY
jack
and
Jill
went
up
the hill
jack and jill
went up the hill

Jack and Jill
Barfi
Shankar Mahadevan / Kavita
SCORE
71
JUST LISTEN
SING ALONG
LYRICS
HINDI
ENGLISH
jack
and
Jill
went
up
the hill
10
MODE
VIDEO
AUDIO
SONG VOCALS
ADJUST DELAY
jack and jill
went up the hill

The seconds during interludes, preludes appear on the right with small font size except for 3, 2, 1, 0 which are larger for alerting the singer to sing.



Text size difference and colour difference used to highlight appropriate content.

Hence bigger font size for the song's name.

The original singer's name for whom the user will be singing is highlighted in the same orange color used in the other parts of the interface.

When the cursor is dragged near the buttons, the letters alone glow in orange while the button still remains blue to show that it is not yet activated.

On clicking, the button turns yellow and the letters turn brighter, that is, white.

When one button is clicked on, the function of the other button is automatically terminated and left dormant - dull blue.

When the cursor is dragged near the buttons, the letters alone glow in orange while the button still remains blue to show that it is not yet activated.

On clicking, the button turns yellow and the letters turn brighter, that is, white.

When one button is clicked on, the function of the other button is automatically terminated and left dormant - dull blue.

When the cursor is dragged near the buttons, the letters alone glow in orange while the button still remains blue to show that it is not yet activated.

On clicking, the button turns yellow and the letters turn brighter, that is, white.

When one button is clicked on, the function of the other button is automatically terminated and left dormant - dull blue.

When the cursor is dragged near the buttons, the letters alone glow in orange while the button still remains blue to show that it is not yet activated.

On clicking, the button turns yellow and the letters turn brighter, that is, white.

When one button is clicked on, the function of the other button is automatically terminated and left dormant - dull blue.

When the cursor is dragged near the buttons, the letters alone glow in orange while the button still remains blue to show that it is not yet activated.

On clicking, the button turns yellow and the letters turn brighter, that is, white.

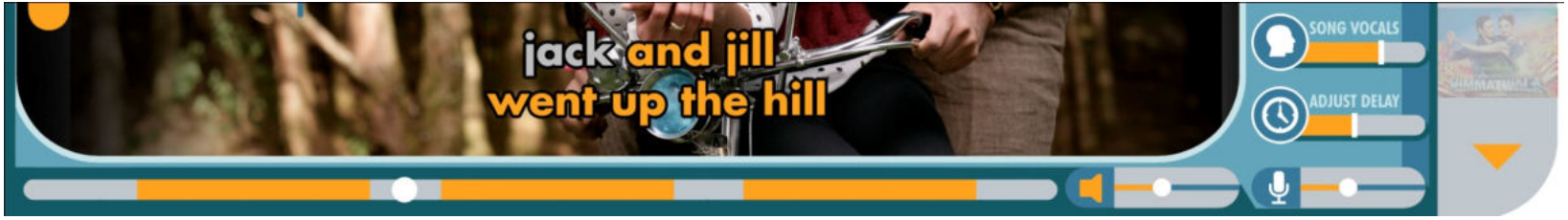
When one button is clicked on, the function of the other button is automatically terminated and left dormant - dull blue.

Same applies to video and audio mode buttons too.

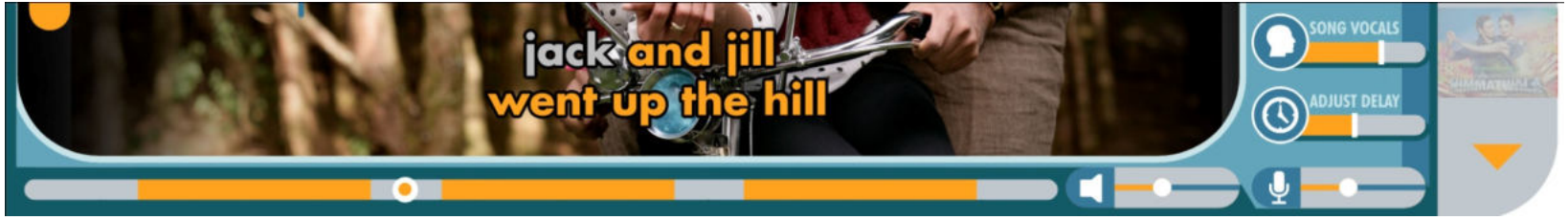
LYRICS
HINDI
ENGLISH
MODE
VIDEO
AUDIO

The question mark icon helps the user to get an overlay on the whole interface which explains every component in short crisp words.

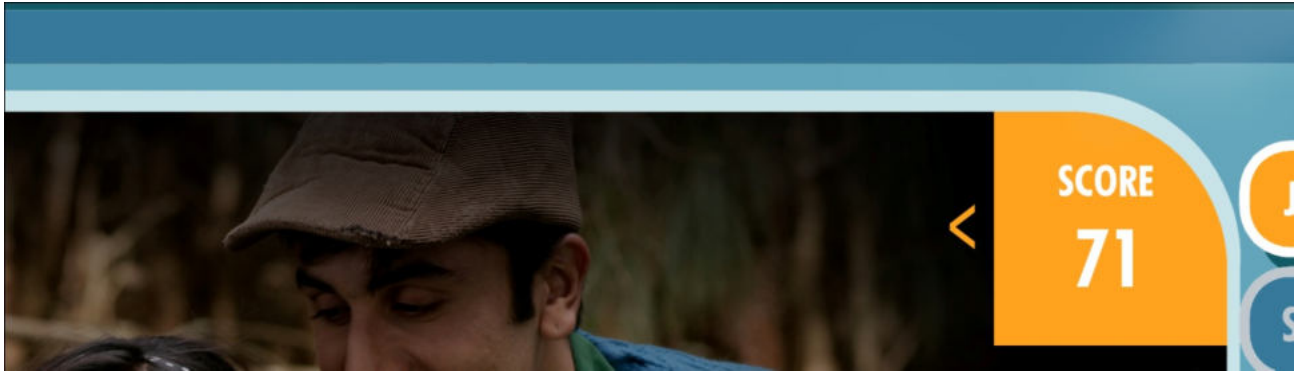
Whenever the cursor is dragged near one of the 4 sliders in the interface or the slider is clicked on and operated, the icon of that particular slider starts to glow.

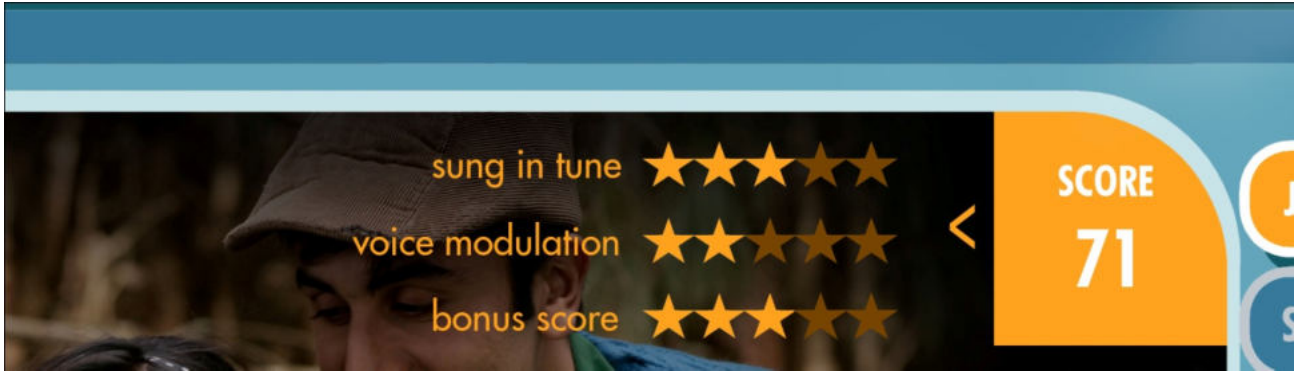


Whenever the cursor is dragged near one of the 4 sliders in the interface or the slider is clicked on and operated, the icon of that particular slider starts to glow.



A yellow dot or glow on the slider of the seek bar below the main video screen shows an active seek slider. Again, it gets activated by clicking or just leaving the cursor near it.


SCORE
71



To facilitate on the spot recognition and understanding, a symbolic way of showing bright and dull dots can give a visual image of how well the marks in the two/three categories are. Also simple colloquial terminology replaces technical ones.

The song vocals slider becomes dull and dormant when the video mode is chosen and is totally unclickable in the video mode.

A slight blue overlay is given to make sure the slider doesn't disappear totally and maintains symmetry in the interface.

The song vocals slider becomes dull and dormant when the video mode is chosen and is totally unclickable in the video mode.

A slight blue overlay is given to make sure the slider doesn't disappear totally and maintains symmetry in the interface.

Congratulations !

SING AGAIN

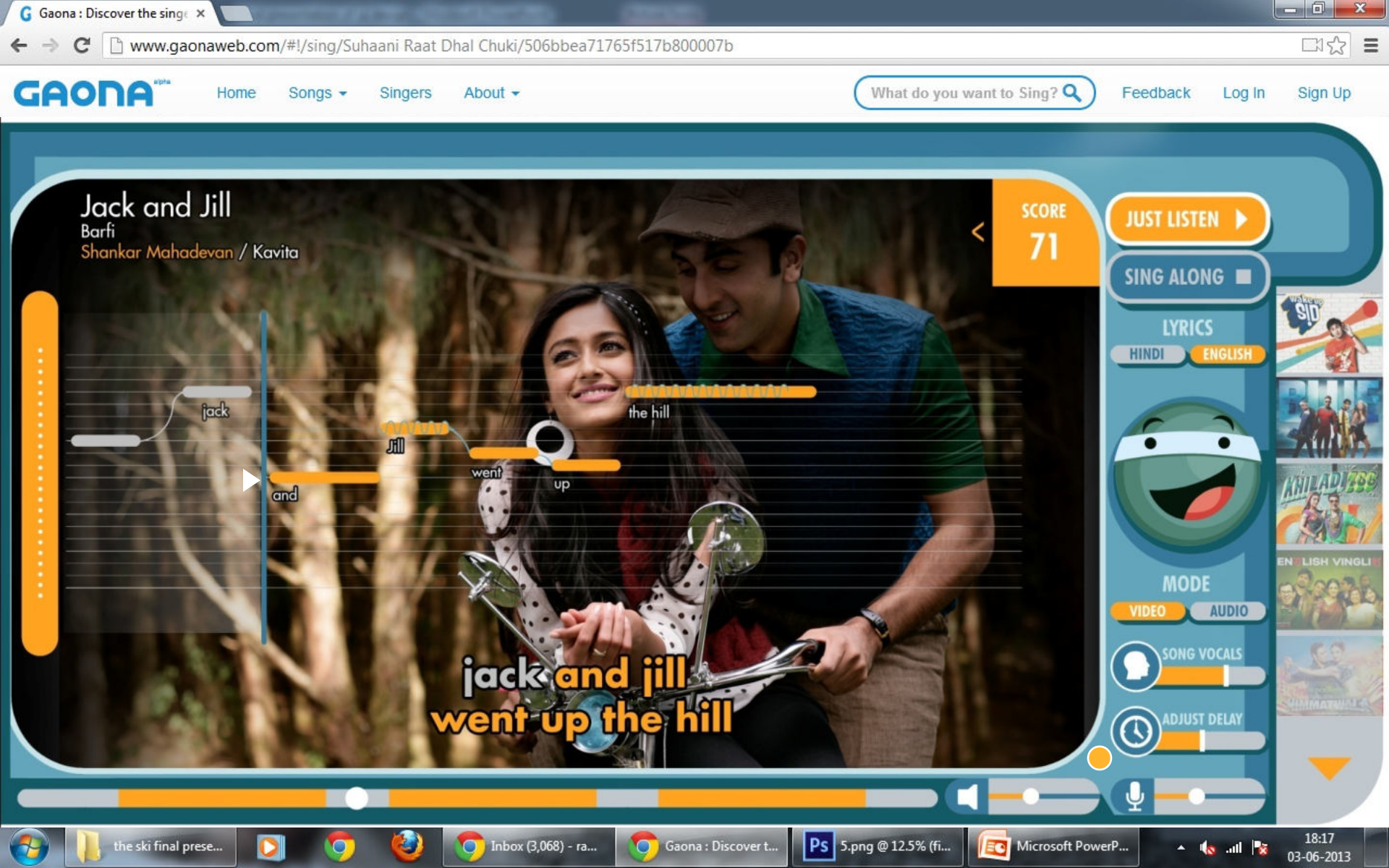
MORE SONGS

Your score is 71/100

YOUR RECORDING

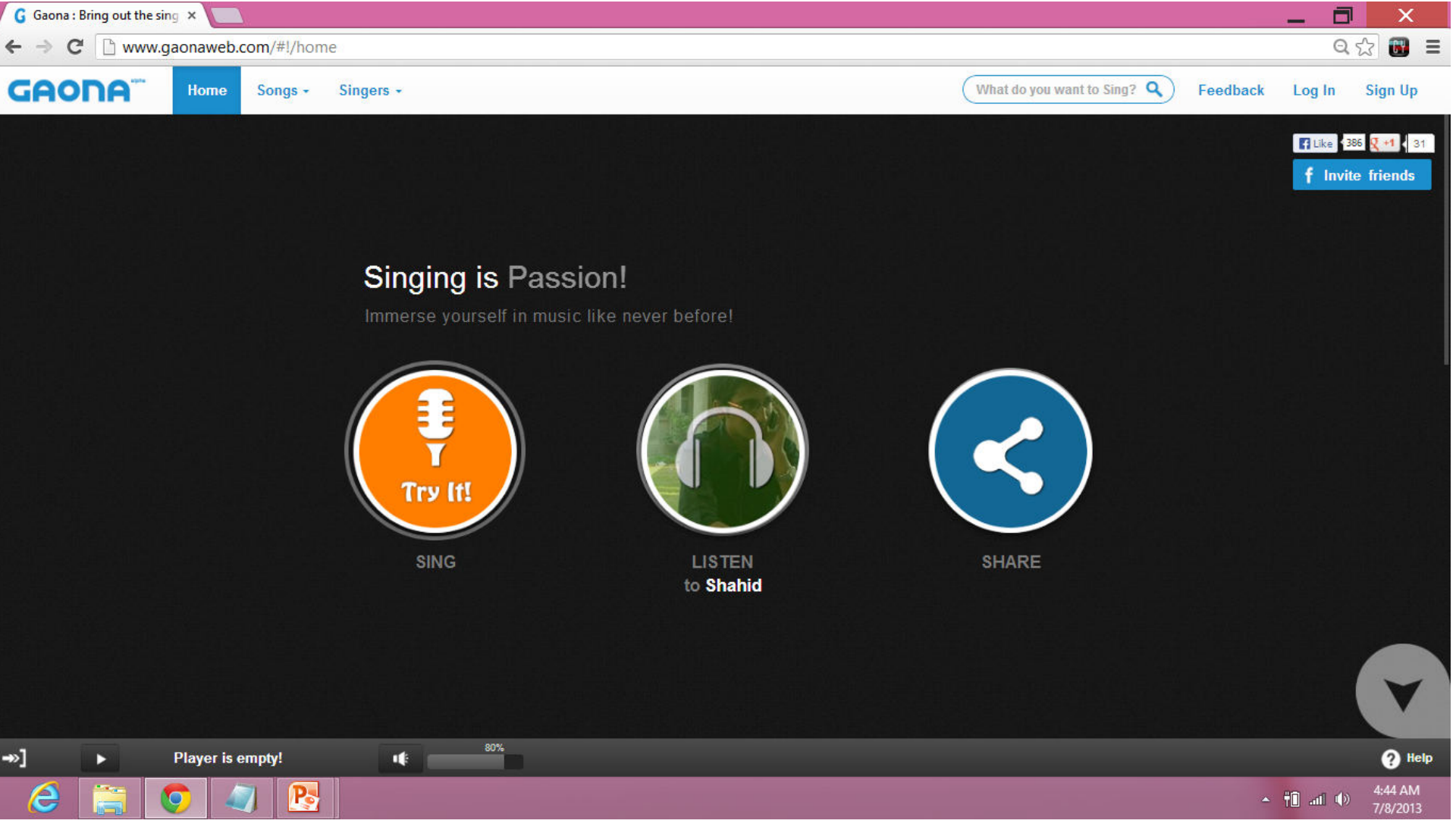
SHARE/SAVE

Gaona : Discover the singe
www.gaonaweb.com/#!/sing/Aashiyan/5162b9b1bbe1010dc4000003
Do you want Google Chrome to save your password?
Save password
Never for this site
GAONA
Home
Songs
Singers
About
barfi
Feedback
Log In
Sign Up
84.4
High Score
26
Attempts
Aashiyan
Barfi
Nikhil Paul George
Score
0.0
ख्वाबों
के
तिनकों
से
चल
बनाएं
आशियां
इत्ती सी
हंसी
इत्ती
सी
इत्ता सा
खूशी
टूकडा
चांद
का
इत्ती सी हंसी
Free Download
Download Manager
Loading
YouTube
Cancel
Submit
00:21/02:05
GAONA
English
the ski final prese...
Microsoft PowerP...
Gaona : Discover t...
19:21
03-06-2013


Gaona : Discover the singe
www.gaonaweb.com/#!/sing/Suhaani Raat Dhal Chuki/506bbea71765f517b800007b
GAONA alpha
Home
Songs
Singers
About
What do you want to Sing?
Feedback
Log In
Sign Up
Jack and Jill
Barfi
Shankar Mahadevan / Kavita
SCORE
71
JUST LISTEN
SING ALONG
LYRICS
HINDI
ENGLISH
MODE
VIDEO
AUDIO
SONG VOCALS
ADJUST DELAY
jack
and
Jill
went
up
the hill
jack and jill
went up the hill
the ski final prese...
Inbox (3,068) - ra...
Gaona : Discover t...
5.png @ 12.5% (fi...
Microsoft PowerP...
18:17
03-06-2013

Jack and Jill
Barfi
Shankar Mahadevan / Kavita
SCORE
71
JUST LISTEN
SING ALONG
LYRICS
HINDI
ENGLISH
jack
and
Jill
went
up
the hill
ADJUST DELAY
MODE
VIDEO
AUDIO
SONG VOCALS
ADJUST DELAY
jack and jill
went up the hill
GAANA

Redesigning
“Home Page”


Gaona : Bring out the sing
www.gaonaweb.com/#!/home
GAONA
Home
Songs
Singers
What do you want to Sing?
Feedback
Log In
Sign Up
Like 386 +1 31
Invite friends
Singing is Passion!
Immerse yourself in music like never before!
Try It!
SING
LISTEN
to Shahid
SHARE
Player is empty!
80%
Help
4:44 AM
7/8/2013

weeklyTopSingers

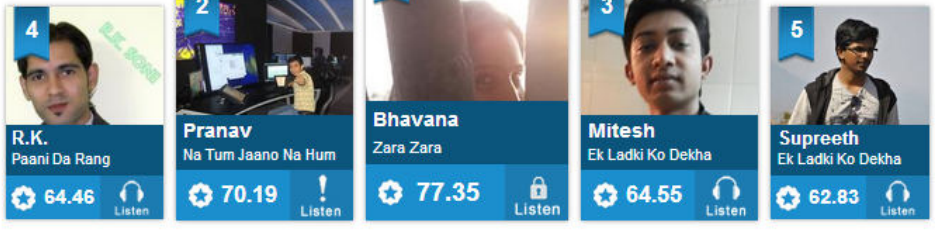
www.gaonaweb.com/#!/weeklyTopSingers

GAONA alpha

Home | Songs | Singers | What do you want to Sing? | Feedback | Log In | Sign Up

Leader boards | Top Singers | Popular Singers | Frequent Singers | Recent Singers | Like 386 +1 31

Top Singers (Jul 7 - Jul 14)



Pehla Nasha	Call Me Maybe	Just The Way Y...	Kuchh To Log K...	Na Tum Jaano N...	Jaane Jaan Dho...	Agar Tum Mil Jao	Pehli Nazar	Kal Ho Na Ho
61.12	60.85	60.02	48.97	43.90	32.05	18.89	16.30	3.05

Like 386 people like this.

FAQ | Privacy Policy | Terms | @Facebook | @Twitter

© SensiBol Audio Technologies.

Player is empty! 80% Help

4:46 AM
7/8/2013

Gaona : Discover the singe

www.gaonaweb.com/#!/s/bollywood/classics

GAONA alpha

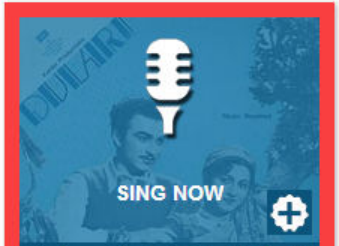
Home | Songs | Singers | About | What do you want to Sing? | Feedback | Log In | Sign Up

Bollywood | Classics | Evergreen | Retro | Latest | Surprise Me | Filter Tools

Soulful, haunting melodies from the 40's and 50's

Mohe Bhool Gaye Saa...
(Baiju Bawara)
Female | Moderate | Info

Awara Hoon
(Awaara)
Male | Easy | Info



Suhaani Raat Dhal Chuki
(Dulari)
Male | Moderate | Info

Yeh Raat Yeh Chaandni
(Jaal)
Male | Very Easy | Info

Ae Dil Mujhe Aisi Jaga...
(Aarzoo)
Male | Moderate | Info

Door Koi Gaaye
(Baijubawara)
Duet | Difficult | Info

Shola Jo Bhadke
(Albela)
Duet | Easy | Info

Tadbeer Se Bigdi Hui
(Baazi)
Female | Easy | Info

Mere Piya Gaye Rango...
(Patanga)
Duet | Moderate | Info

Ghar Aaya Mera Pardesi
(Awaara)
Female | Moderate | Info

00:00 00:00 80%

Player is empty!

© SensiBol Audio Technologies.

www.gaonaweb.com/#!/sing/Suhaani Raat Dhal Chuki/506bbea71765f517b800007b

the ski final prese... | Inbox (3,068) - ra... | Gaona : Discover t... | 5.png @ 12.5% (fi...

18:14
03-06-2013

Solution Screen shots

Gaana songs singers what do you want to sing? sign up sign in

Listen to this week's top singers

songs singers what do you want to sing? sign up sign in

Listen to this week's top singers

Gaana songs singers what do you want to sing? sign up sign in

Listen to this week's top singers

songs
singers
what do you want to sing?
sign up
sign in
sing
share
listen
Listen to this week's top singers

Listen to this week's top singers

Featured songs

Listen to this week's top singers

Featured songs

Gaana songs singers what do you want to sing? sign up sign in

Featured songs

Fiqrana...hum..

wake up Sid...

balma

cocktail party

balma

New releases

English..Vinglish

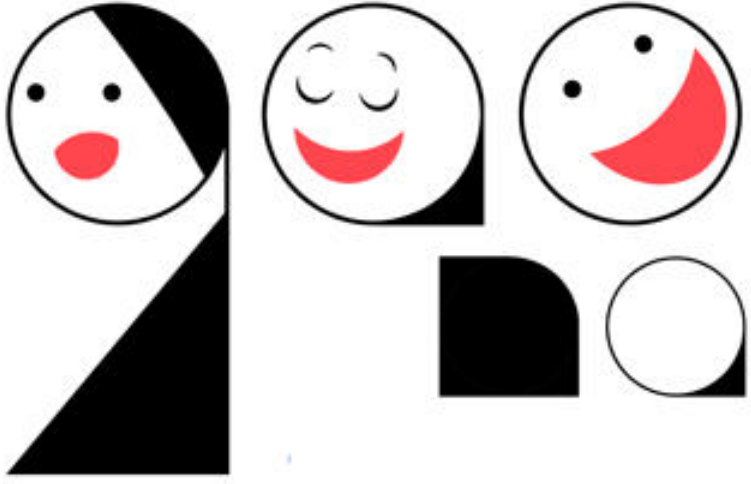
Himmatwala.

chiggy wiggy

tere bina...

chiggy wiggy

add songs here by cllicking "+"

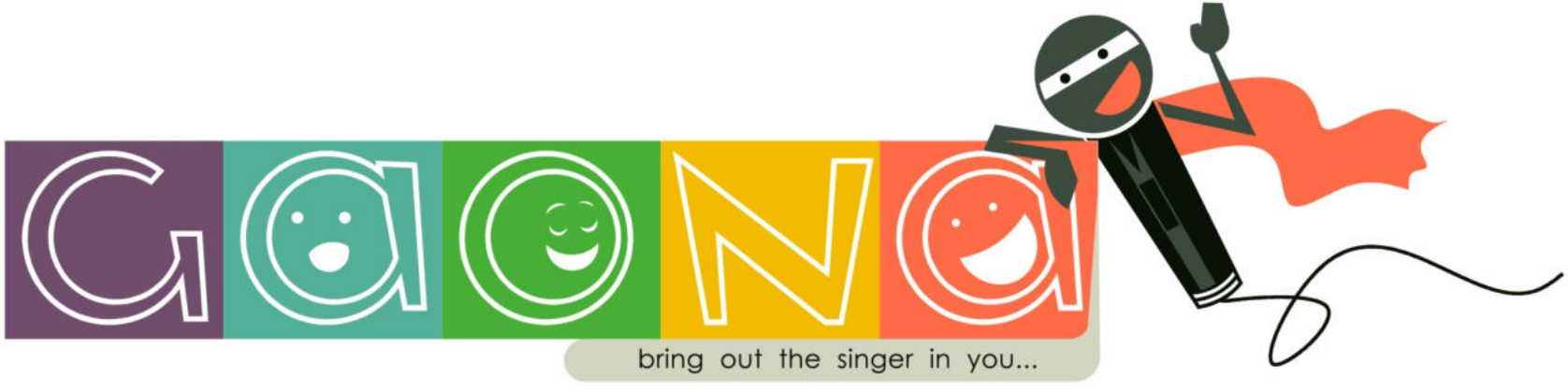


gaana!

gaana
discover the singer within...

Gaana!

GAANA
discover the singer within...


GAANA
bring out the singer in you...

Thank You