

Test Plan

SoundCloud.Inc



SOUNDCLOUD

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1 INTRODUCTION

SoundCloud, the world's largest music & audio platform lets users discover and enjoy music from the most diverse creators on earth. It was launched in 2008 and since then it has become renowned for its unique content and features, including the ability to share music and connect directly with artists, as well as unearth breakthrough tracks, raw demos, podcasts and more. This is made possible by an open platform that directly connects creators and their fans across the globe. Music and audio creators use SoundCloud to both share and monetize their content with a global audience, as well as receive detailed stats and feedback from the SoundCloud community.

2 TESTING OBJECTIVES

The aim of the testing team is to validate that the high-level features listed in the introduction fulfill the criteria before they are implemented. The objectives are:

- **To validate Performance**
 - Ensure that the graphics and the number of users does not affect speed of the pages, make sure that the website is compatible on all browsers. If the performance of the website is poor then customers will become impatient and leave the site.
- **To validate Functionality**
 - Certify that all elements of the website are needed and serve a purpose. Ensure all the features are essential for the website not unnecessarily added.
- **To validate Usability**
 - Ensure that the website is easy to navigate. The site should work seamlessly and there are no errors. If the website not user friendly then user would refrain from using it.
- **To validate attractiveness**
 - Guarantee that the website has a professional design, a contrasting color scheme, a readable text, and a simple layout. If the website is not attractive then customers will not be interested in the company or its products.

3 SCOPE AND LIMITATIONS OF TEST PLAN

It isn't feasible to test each conceivable imperfection in a web application due to limitation in resources which is why it is so imperative to distinguish what can go untested. This test plan will concentrate on testing the highlights which have been resolved to have the most use by the user as they are high risk to the business if they fail. The features that are in the extent of this test plan are recorded beneath.

High Level Features	
1	Allows user to create accounts
2	Allows user to reset their password
3	Allows user to browse music using its search function
4	Allows user to view the top charts
5	Allows user to add tracks to queue that they want to listen to next
6	Allows user to link their Facebook accounts to their SoundCloud accounts
7	Allows user to upload, promote, and share their originally-created sounds
8	Allows user to react to the Track (Like, Share, Repost)
9	Allows user to "Follow" another user
10	Allows user to view a list of their followers
11	Allows user to send private messages to other users
12	Allows user to post "timed comments" on specific parts of any track
13	Allows user to create playlists
14	Allows user to receive notifications
15	Allow users to sign out when done using SoundCloud

Unfortunately, the test team will not be able to test every single feature on SoundCloud due to limitation of resources and expertise. The features that we will not be tested will be discussed later in the test plan. The team would not be able to test would be:

- **Features for the Pro Subscription**
- **Data Storage**
- **Language Support**
- **Track information & account verification**

4 BUSINESS EXPERTISE

The team believes that, one of the co-founders of the application should be ideal as the business expert. Alexander Ljung co-founded SoundCloud Limited in 2007 and serves as its Chief Executive Officer and Managing Director. Alexander Ljung serves at interactive installations. He has a background as a post-production sound designer and motion film music producer. He holds an M.Sc. degree within Media Technology from The Royal Institute of Technology in Stockholm and also studied Marketing & Business Development at the Stockholm School of Economics.

5 DEVELOPMENT EXPERTISE

To help assemble the most efficient testing team, and to help that team with the building and executing of tests a competent development expert is essential for success. The expert would be able to guide the team through the testing process. Artem Fishman would be the best candidate to fill this position. As Chief Technology Officer and Senior Vice President of Engineering at SoundCloud, Artem would be competent to help and advice our team. Prior to joining SoundCloud, Fishman was Vice President of Engineering at Yahoo. Fishman has a

keen interest in deep technical details and data-driven approaches, will be of real benefit to the testing team.

6 SOURCES OF TEST DATA

Most of the features that will be tested during this test plan will be functionality tested. The primary source of the data would be the web application itself. During the tests, the end result of the function test would be compared to the desired output, validating whether the function passed the test. Some automation tools would be used to test the performance of the user load on the web application too. The Equivalence Classes Technique and the Expected Results Coverage Technique will allow the team to use common logic and minimal source data to perform our tests. Some of the sources would include:

- **Text Heavy pages:** For static testing. The data can be scrapped from specific website pages (such as the F.A.Q page)
- **Search Engine And associated limiters:** For Unit testing, and constructing expected result tables
- **Other:** All other test data will be obtained from rigorous inspection of the website. Some data such as application load time and traffic stats will be obtained from 3rd party resources

7 TESTING STRATEGY

7.1 Static Testing

Static testing primarily based on documentation and does not focus on actual code. For a web application, Static Testing is limited since most of the documentation is unavailable. A web application doesn't come with a user manual, although there are various other artifacts that help the customers understand the usage of the web application. Unlike most web application, SoundCloud, provides its users with a really informative Help Center. The Help Center has support regarding all the features that are offered to the customers. Artifacts that

will be tested pertaining to the test plan include the test cases, use cases, installation guide, blogs, the FAQ and the support provided on the SoundCloud Help Center

Promoted articles		Payments and Billing
I forgot the email address associated ...	Uploaded track disappeared from profile	SoundCloud Go
Unable to see an option to change to ...	What is SoundCloud?	Podcasting
SoundCloud Support Resources	Your Display Name and Profile URL	Upload & Manage Your Tracks
Profile image and header	Why your track was taken down	Stats, Comments & Messages
Your upload allowance	Automatic subscription renewals	Listen & Discover
Canceling or downgrading your Pro su...	Enabling an iOS SoundCloud Go/Go+ su...	Share & Embed
SoundCloud Go/Go+ Subscription stat...	SoundCloud Go availability	Policy & Safety
Getting started with podcasting	Uploading requirements	
Creating an Album	Extended Stats	
Play counts	Troubleshooting	
Next up - Play Queue on Web	Downloading tracks	
Reporting a spam account		

Please read through our Help Center articles to find your answer or try our Help Community.

7.2 Unit Testing

In Unit Testing we will test specific aspects of the application individually, so that it will be easier to tell if a function is properly working. Also, by doing that, we will be able to test all, or most of, the individual functions of the application. In our case, to test the high-level use

cases, functional testing is recommended. Functional testing validates that the system delivers the expected result of the requirement. All of the high-level features will be functionally tested.

The test team would work in cooperation with the development team for this part of the project. John Doe, Our Test Designer, would design out test script and the System Testers would test the functionality of the High-Level features under the supervision of the Test System Administrator.

7.3 System and Integration Testing

Systems and Integration testing are vital parts of the process, and even more so in the case of a Web Application. Integration testing will test elements of the Interface, their associated functions, and integration with resources beyond the project. Systems testing will test pairs or components and the system post Integration. The system testers would work under the supervision of the System Test Administrator with compliance with the development expert. A bottom up approach will be followed, the team would work on smaller components first then move onto the major features. The process would heavily depend on scripting and Automation tools for testing. Expected Results Coverage Techniques will be implemented as well to directly compare the functionality of most features.

7.4 Performance Testing

Performance testing is a type of testing that determines a systems responsiveness and stability under difference conditions. Performance testing will be up to the System Testers to execute. They will consult the test designer to determine if using an automatic testing tool would appropriate and cost effective. The test scripts for the performance testing will either be written by the testing engineers or they will be generated by an automatic testing tool such as TestRail. The system will be tested under different circumstances and conditions by modifying the data files to increase the number of iterations that each transaction occurs.

The following table represents 6 performance test cases done in different times of a day and different days of a week:

Transaction	Timing	Day & Time
Loading the Site	2.73s	Wednesday, 10:45 AM
	3.31s	Wednesday, 3:00 PM
	3.14s	Sunday, 5:30 PM
	2.15s	Sunday, 1:00 AM
Search for an Artist	1.44s	Wednesday, 10:45 AM
	1.53s	Wednesday, 3:00 PM
	1.43s	Sunday, 5:30 PM
	1.14s	Sunday, 1:00 AM
View Top Charts	1.47s	Wednesday, 10:45 AM
	1.53s	Wednesday, 3:00 PM
	1.40s	Sunday, 5:30 PM
	1.20s	Sunday, 1:00 AM
Load user Profile	0.98s	Wednesday, 10:45 AM
	1.02s	Wednesday, 3:00 PM
	0.88s	Sunday, 5:30 PM
	0.81s	Sunday, 1:00 AM
View playback history	1.04s	Wednesday, 10:45 AM
	1.08s	Wednesday, 3:00 PM
	1.04s	Sunday, 5:30 PM
	0.99s	Sunday, 1:00 AM
Sign out	2.55s	Wednesday, 10:45 AM
	2.61s	Wednesday, 3:00 PM
	2.51s	Sunday, 5:30 PM
	2.42s	Sunday, 1:00 AM

7.5 User Acceptance Testing

User Acceptance Testing allows a team to see the functionality of the system using a third party. It is done to ensure that the product is ready for consumer use, and generally follows an ad-hoc methodology. The test team would reach out to a small group of members of the SoundCloud Community to participate as Beta Testers. The users will be selected based upon various criterion. They users will be provided the list of changes and a user manual and will be asked to prove feedback.

7.6 Automated Regression Testing

Regression testing is the selective retesting of a system or component to verify that modifications have not caused unintended effects and that the system or component still works as specified in the requirements. The lead test Engineer, would review the changes before they are presented to the Beta Testers and the other users.

8 TEST ENVIRONMENT REQUIREMENTS

8.1 Workstation

A workstation is computer with its natural interfaces (keyboard, mouse, etc.) that is used to accomplish work. For our purposes, we would be testing on the following workstations with the specific requirements.

- **End User Work Station**
 - A computer with all the essential peripheral devices and internet connectivity with average configurations. We would be testing the functionality on operating systems such as Windows 10, OS X High Sierra & Ubuntu.
- **Mobile workstation**

- Smartphone with an internet connectivity. SoundCloud has an iOS & Android mobile application therefore we would test the features on these devices too.

8.2 Network

A stable internet connection is crucial to test a web application like SoundCloud as it allows the workstation to connect to the server and access the data. As SoundCloud requires a lot of downloading when a user is listening to a track, download rates of at least 15mbps would be required. A local area network or Wireless fidelity network could be used.

- **Our software requirements will include:**

- Agile Load
- Chrome Web browser
- Safari Web browser
- Microsoft Office

- **Our hardware requirements will include:**

- A Router and Hub
- A printer scanner
- Previously Described workstations

8.3 Server

Ideally, the test environment should be identical to the development environment. This is necessary as it allows the web application to function effectively and to provide the desired result that the developers expected. It also allows the test team to provide the development team with the exact steps to replicate the tested feature for improvement or changes.

9 CONTROL PROCEDURES

Problem Reporting

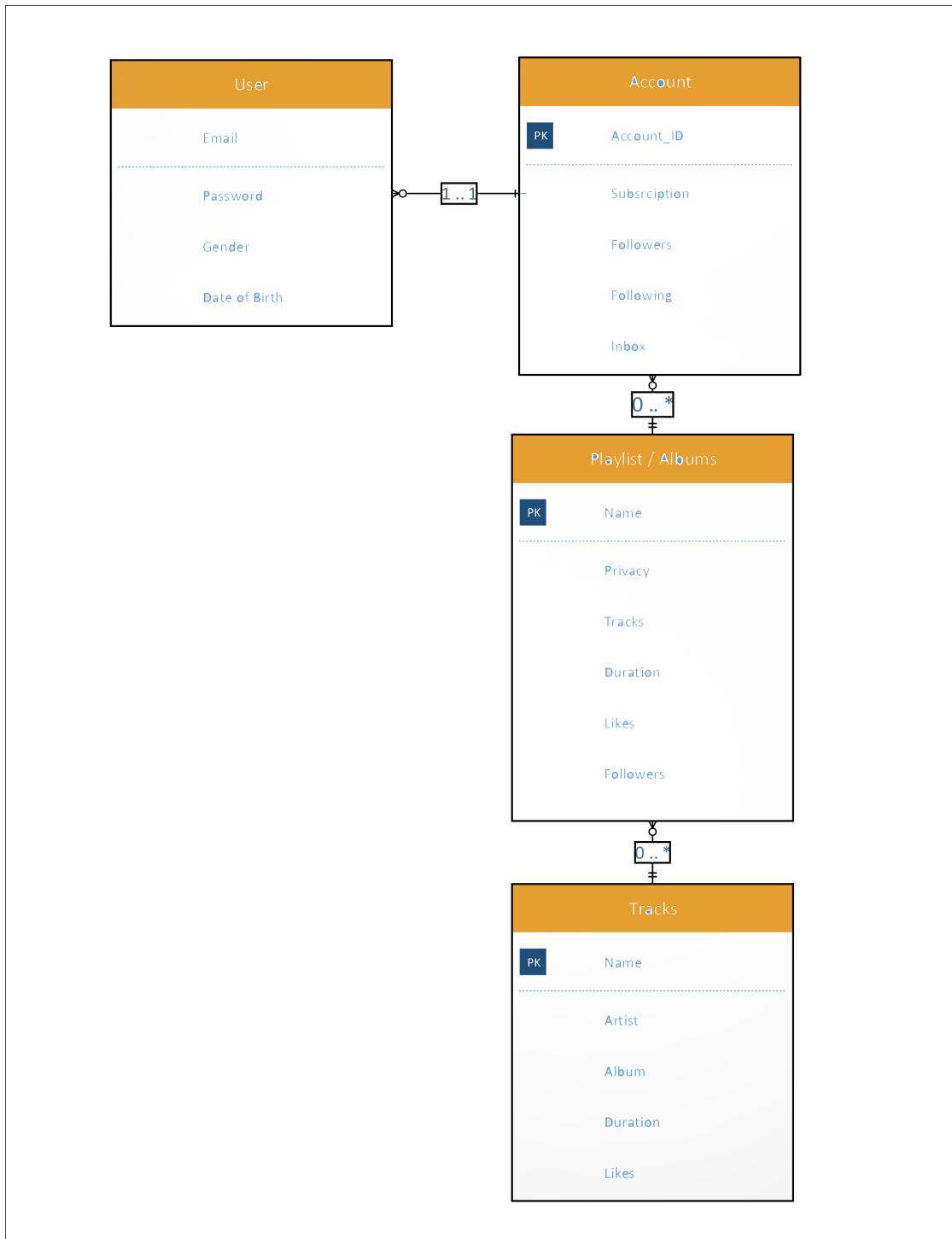
When a problem is encountered, the tester will be required to fill out a form that would entail all the essential details for the development team to find a solution for it. The template of the form & log book can be found in Appendix A.

Change Requests

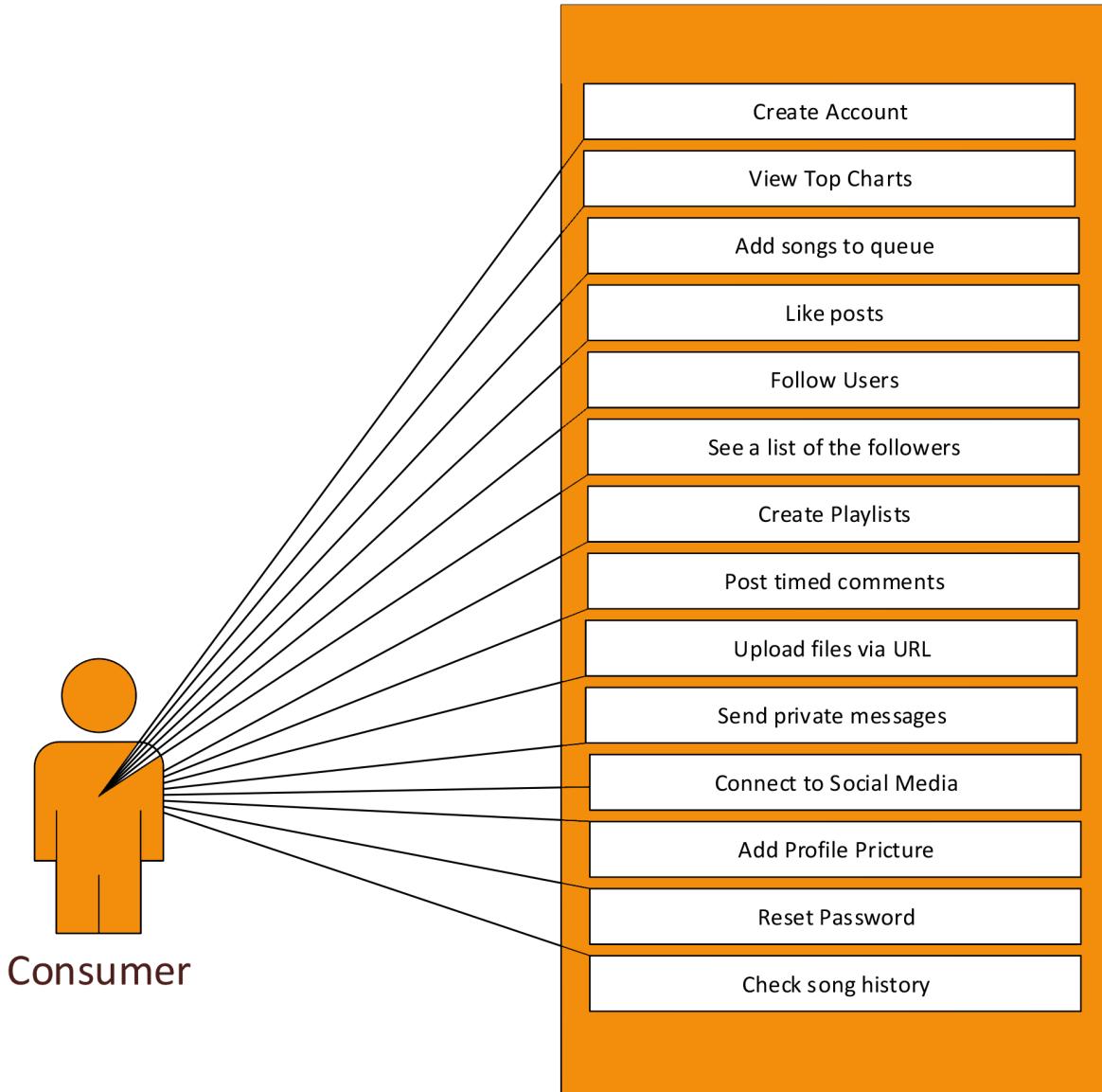
Whenever a change needs to be requested, the tester need to need to fill out a “Change request form” and submit it to the Business & Development Expertise. The form would consist of details that impact the product after the change. Upon the approval of the Expertise, the development team would be requested to go ahead and proceed with the necessary changes. The form can be found in Appendix A.

10 FEATURES TO BE TESTED

Domain Class Model



Use Case Diagram



10.1 Use Cases

Use Case ID	Primary Actor	Use Cases
SCIUC01	Customer	Create User Account
SCIUC02	Customer	Send Private Message

Use Case ID:	SCIUC01		
Use Case Name:	Create Account		
Created By:	Pulkit Aggarwal	Last Updated By:	
Date Created:	12/7/2017	Last Revision Date:	
Actors:	Customer		
Description:	A customer goes to SoundCloud.com with the intention to listen to tracks, connect with other track artist or to upload thier creation.		
Trigger:	The user wants to create a account to use Soundcloud.		
Preconditions:	<ul style="list-style-type: none"> 1. The customer has an existing email address 2. The customer has a computer with access to the internet. 		
Postconditions:	<ul style="list-style-type: none"> 1. The customer can use all SoundCloud features 		
Normal Flow:	<ul style="list-style-type: none"> 1. The customer navigates to the SoundCloud website 2. The customer clicks on the Sign Up for Free Button 3. The customer enters their email. 4. The customer enters password and age and accept the Terms of use & Privacy policies 5. The customer Choose a display name and gender 6. The customer is directed to the homepage of their account 		
Alternative Flows:	<ul style="list-style-type: none"> 1. In step 4. If customer doesnt accept Terms of use & Privacy policies it would prompt user to accept before progressing. 		
Exceptions:	There are no exceptions to this use case		
Includes:	There are no includes to this use case		
Frequency of Use:	A customer using the Soundcloud website should only have to cre ate an account only once.		
Special Requirements:	N/A		
Assumptions:	Customers will remember their login information and know how to sign into their account after registration		
Notes and Issues:			

Use Case ID: SCIUC02			
Use Case Name:	Send Private Message		
Created By:	Pulkit Aggarwal	Last Updated By:	
Date Created:	12/7/2017	Last Revision Date:	
Actors:	Customer		
Description:	A customer goes to SoundCloud.com and wants to connect with another user by sending them a person message.		
Trigger:	The user wants to send a message to another customer		
Preconditions:	<ul style="list-style-type: none"> 1. The customer has an existing email address 2. The customer has a computer with access to the internet. 3. The customer is logged on to thier account 		
Postconditions:	A message to another customer will be sent and the other customer will be notified about it.		
Normal Flow:	<ol style="list-style-type: none"> 1. The customer navigates to the SoundCloud website 2. The customer clicks on the Sign In Button 3. The customer enters their email. 4. The customer enters password 5. The customer clicks the mail button in the top right corner. 6. The customer clicks on View all messages from the drop down 7. The customer clicks on New Message 8. The customer enter the other customers username and the message and send it. 9. The customer gets a notification that the message has been sent. 		
Alternative Flows:	In step 8. If customer enters a username that doesnt exist.		
Exceptions:	There are no exceptions to this use case		
Includes:	There are no includes to this use case		
Frequency of Use:	A customer using could send a private message as many times they want and whenever they want. There is no limitation to this.		
Special Requirements:	N/A		
Assumptions:	N/A		
Notes and Issues:			

10.2 Test Cases

Test Case ID	Functional Test
SCITC01	Browse music using its search function
SCITC02	Send Private Messages
SCITC03	View the top charts
SCITC04	Sign out
SCITC05	React to the Track (Like, Share, Repost)
SCITC06	Link their Facebook accounts to their SoundCloud accounts
SCITC07	Create playlists
SCITC08	Post "timed comments" on specific parts of any track
SCITC09	View a list of their followers
SCITC010	“Follow” another user

User Actions/ Expected Results	Comments
<p><SCITC01> <Browse music using its search feature></p> <p>Description: A user should be able to search for a particular artist or song using the search feature</p> <p>Development Phase: Testing</p> <p>Goals: To output a list of result for the searched criteria.</p> <p>Test Data: Artist Name, Track Name, Username, Album Name</p> <p>Test Tools:</p> <p>Test Startup Procedure:</p> <p>Test Closedown Procedure:</p> <p>Test Case</p> <p>Preconditions:</p> <ol style="list-style-type: none"> 1. Set up the Test Environment 2. Go to SoundCloud.com <p>Test Steps:</p> <ol style="list-style-type: none"> 1. Navigate to the search box 2. Type the search criteria <p>Expected Results:</p> <ol style="list-style-type: none"> 1. Output a list of all possible result 	

Search results for "blueman"

Found 1 SoundCloud Go+ result. [Upgrade to hear full tracks →](#)

Jorge Ben Jor Zé Blueman

14 years PREVIEW #Jazz

3:59

32

Everything

- SoundCloud Go+ tracks
- Tracks
- People
- Albums
- Playlists

Legal - Privacy - Cookies - Imprint - Popular searches
Language: English (US)

Found 500+ tracks, 249 people, 201 playlists

A STATE OF TRANCE Exodus (Radio Edit)

4 years #Dance

4:16

129K 183

1,535 698 Share More

4:56 Trap and Bass Alison Wonderland – U Don't Know (feat. Wa... 19

User Actions/ Expected Results	Comments
<p><SCITC02> <Send Private Message></p> <p>Description: A user should be able to send another user a private message.</p> <p>Development Phase: Testing</p> <p>Goals: To notify the sender a message has been sent and to notify the receiver a message has been received and show the message.</p> <p>Test Data: Username, Message</p> <p>Test Tools:</p> <p>Test Startup Procedure:</p> <p>Test Closedown Procedure:</p>	
Test Case	
<p>Preconditions:</p> <ol style="list-style-type: none"> 1. Set up the Test Environment 2. Go to SoundCloud.com <p>Test Steps:</p> <ol style="list-style-type: none"> 1. User Signs In 2. Click the mail button in the top right corner. 3. View all messages from the drop down. 4. Click on New Message 5. Enter the other customer's username and the message and send it. <p>Expected Results:</p> <ol style="list-style-type: none"> 1. Receive a notification that the message has been sent. 	
If the user enters an invalid username, ask user to check username and re-enter	

User Actions/ Expected Results	Comments
<p><SCITC03> <View Top Charts></p> <p>Description: A user should be able to see a list of popular tracks</p> <p>Development Phase: Testing</p> <p>Goals: To output a list of most popular songs</p> <p>Test Data:</p> <p>Test Tools:</p> <p>Test Startup Procedure:</p> <p>Test Closedown Procedure:</p>	

Test Case**Preconditions:**

1. Set up the Test Enviorment
2. Go to SoundCloud.com

Test Steps:

1. User Signs In
2. Click the “Charts” Button

Expected Results:

1. Receive a list of top charts.

#	Track	Plays (This week / All time)
1	6IX9INE - GUMMO [Prod. Pierre Bourne]	▶ 3.16M / 24.5M
2	Post Malone - rockstar (feat. 21 Savage)	▶ 3.06M / 83.1M
3	6IX9INE - KOODA	▶ 2.83M / 4.55M
4	LIL PUMP - Gucci Gang	▶ 2.57M / 67M
5	XXXTENTACION - Fuck Love (feat. Trippie Redd)	▶ 2.32M / 57.3M

User Actions/ Expected Results	Comments
<p><SCITC04> <Sign out></p> <p>Description: A user should be able to sign out of thier account whereever they want.</p> <p>Development Phase: Testing</p> <p>Goals: To log a user from thier account and direct them to the home page</p> <p>Test Data:</p> <p>Test Tools:</p> <p>Test Startup Procedure:</p> <p>Test Closedown Procedure:</p>	

Test Case**Preconditions:**

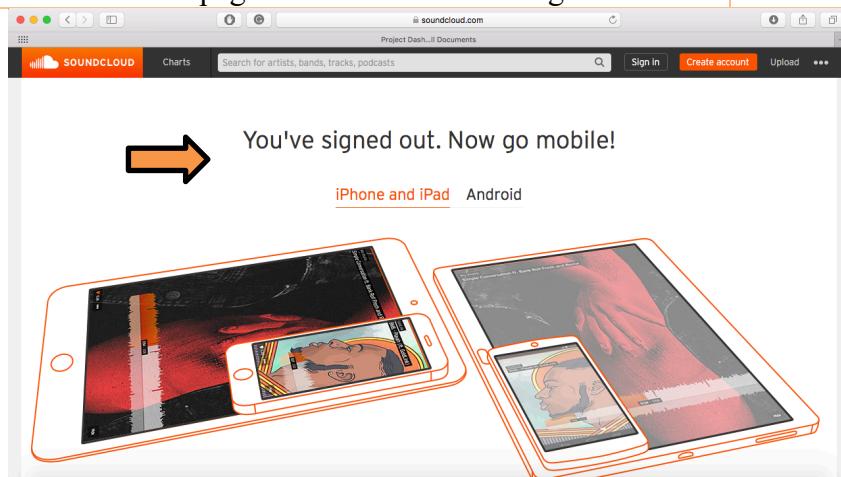
1. Set up the Test Enviornment
2. Go to SoundCloud.com
3. User needs to sign in

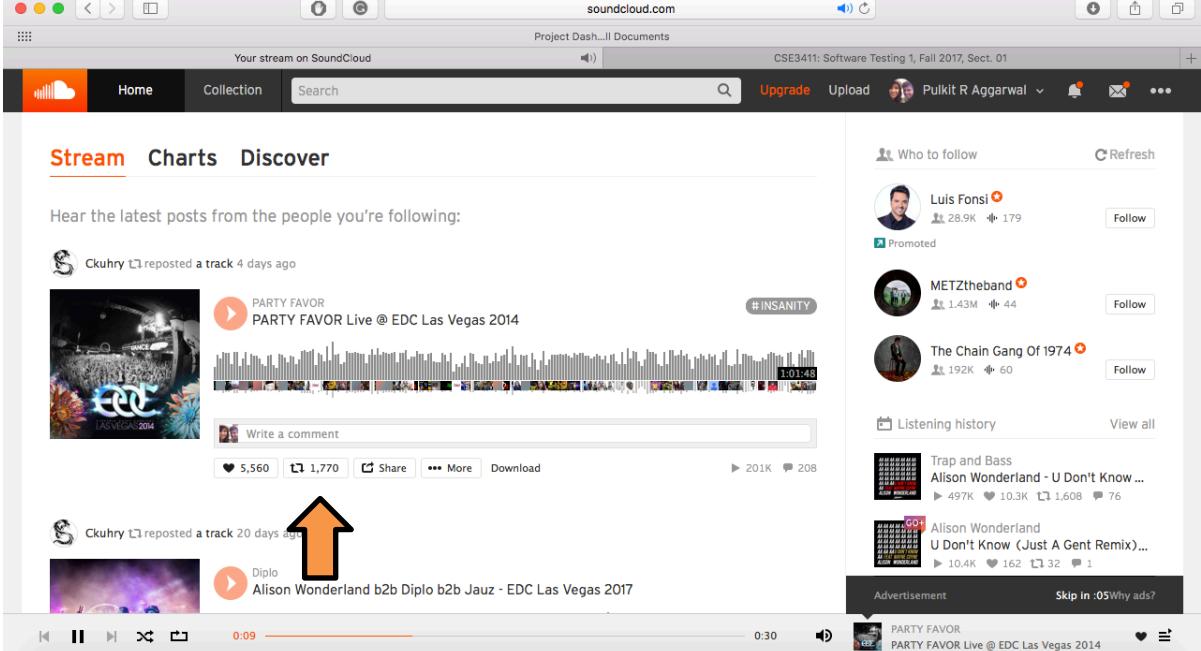
Test Steps:

1. Clicks on the three dots in the top corner
2. Select sign out from the dropdown menu.

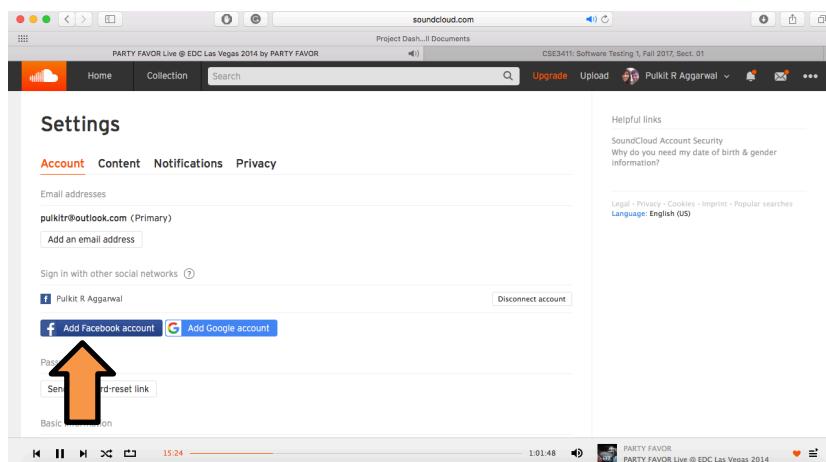
Expected Results:

1. Redirected to home page that states “You’ve Signed Out”.



User Actions/ Expected Results	Comments
<p><SCITC05> <React to the Track (Like, Share, Repost)></p> <p>Description: A user should be able to react to another users track</p> <p>Development Phase: Testing</p> <p>Goals: To be able either like, repost or share another users track</p> <p>Test Data: Tracks</p> <p>Test Tools:</p> <p>Test Startup Procedure:</p> <p>Test Closedown Procedure:</p>	
Test Case	
<p>Preconditions:</p> <ol style="list-style-type: none"> 1. Set up the Test Enviorment 2. Go to SoundCloud.com <p>Test Steps:</p> <ol style="list-style-type: none"> 1. User Signs In 2. Searches for a Track. 3. Click on the heart, repost or share button <p>Expected Results:</p> <ol style="list-style-type: none"> 1. Receive a notification about your action 	
	

User Actions/ Expected Results	Comments
<p><SCITC06> <Link their Facebook accounts to their SoundCloud accounts></p> <p>Description: A user should be able connect thier facebook profile to Soundcloud</p> <p>Development Phase: Testing</p> <p>Goals: To connect facebook profiles to SoundCloud to share music on facebook walls</p> <p>Test Data: Username, Facebook ID</p> <p>Test Tools:</p> <p>Test Startup Procedure:</p> <p>Test Closedown Procedure:</p>	
Test Case	
<p>Preconditions:</p> <ol style="list-style-type: none"> 1. Set up the Test Enviorment 2. Go to SoundCloud.com 3. Have a facebook profile <p>Test Steps:</p> <ol style="list-style-type: none"> 1. User Signs In 2. Click the three dots button in the top right corner. 3. Clicks settings from the drop down 4. Click on Add facebook account 5. Enter the login credential <p>Expected Results:</p> <ol style="list-style-type: none"> 1. See your facebook name listed 	



User Actions/ Expected Results	Comments
<p><SCITC07> <Create playlists></p> <p>Description: A user should be able to create custom playlists and store music</p> <p>Development Phase: Testing</p> <p>Goals: To have a collection of tracks and listen to them whenever want</p> <p>Test Data:</p> <p>Test Tools:</p> <p>Test Startup Procedure:</p> <p>Test Closedown Procedure:</p>	

Test Case

Preconditions:

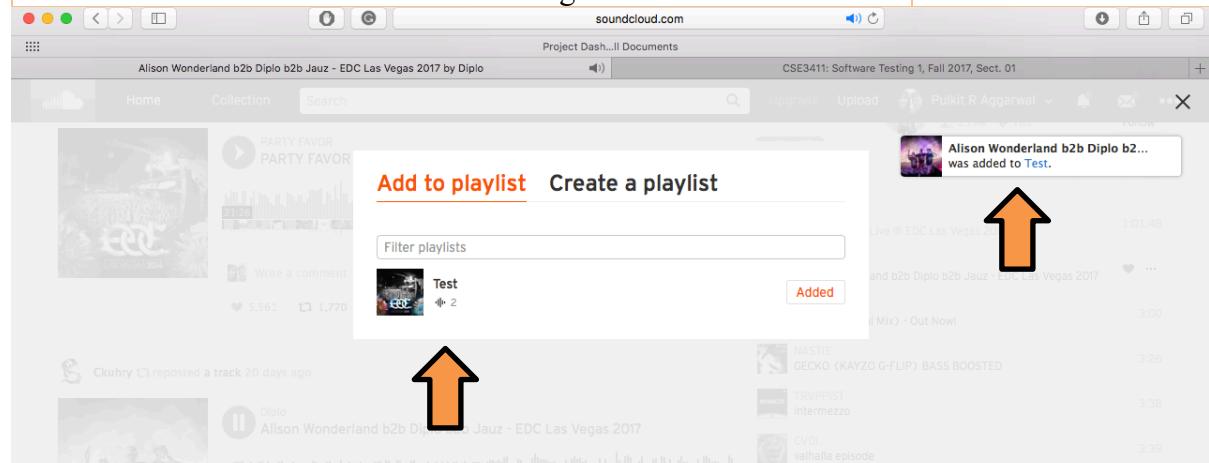
1. Set up the Test Environment
2. Go to SoundCloud.com

Test Steps:

1. User Signs In
2. Searches for a Track.
3. Click on the three dots for options
4. Click on add to Playlist
5. Enter a new Playlist name or choose existing one

Expected Results:

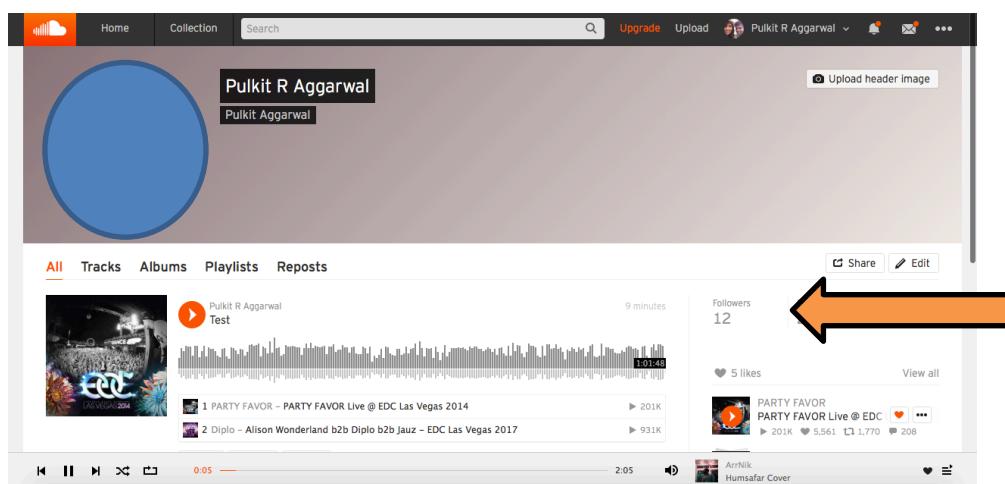
2. Receive a notification that the song has been added

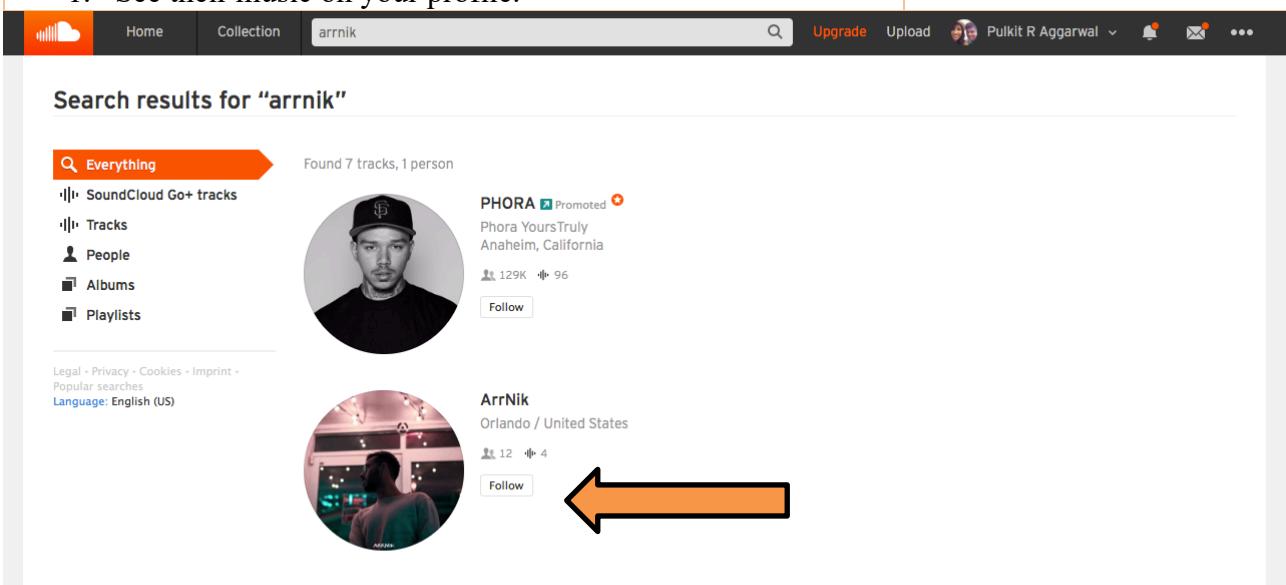


User Actions/ Expected Results	Comments
<p><SCITC08> <Post "timed comments" on specific parts of any track></p> <p>Description: A user could review other tracks and post timed comments</p> <p>Development Phase: Testing</p> <p>Goals: To review tracks and help comment on specified sections of the track</p> <p>Test Data:</p> <p>Test Tools:</p> <p>Test Startup Procedure:</p> <p>Test Closedown Procedure:</p> <p>Test Case</p> <p>Preconditions:</p> <ol style="list-style-type: none"> 1. Set up the Test Environment 2. Go to SoundCloud.com <p>Test Steps:</p> <ol style="list-style-type: none"> 1. User Signs In 2. Play a song 3. Click on the timeline of the song at a particular time 4. Enter comment <p>Expected Results:</p> <ol style="list-style-type: none"> 1. See your profile picture next to the comment on the timeline 	

The screenshot shows a SoundCloud track page. At the top, there's a profile picture for 'ArrNik Queen'. Below it is the track title 'ArrNik Queen' and a play button icon. The track was posted '28 days ago' with the hashtag '#R&B & Soul'. The audio waveform shows a segment from 0:50 to 2:06. A comment from 'Pulkit R Aggarwal' with the message 'Nice beat!' is visible on the waveform. Below the waveform is a comment input field with the placeholder 'Write a comment'. Underneath the input field are interaction buttons: a heart icon (3 likes), a repost icon, a share icon, and a 'More' button. To the right of the waveform, there are statistics: Followers (12), Following (1), and Tracks (4). Further down, there's a section for 'Likes' showing 4 likes, a 'View all' link, and a smaller profile picture for 'ArrNik Queen' with stats: 16 posts, 3 likes, 1 comment, and a 'ArrNik' link.

User Actions/ Expected Results	Comments
<SCITC09> <View a list of their followers>	
Description: A user should be able to see who follows them	
Development Phase: Testing	
Goals: To see a list of people who regularly listen to music a customer likes, shares or posts	
Test Data:	
Test Tools:	
Test Startup Procedure:	
Test Closedown Procedure:	
Test Case	
Preconditions:	
1. Set up the Test Environment 2. Go to SoundCloud.com	
Test Steps:	
1. User Signs In 2. Click the Username in the top right corner. 3. Click on profile from the drop down. 4. Click on followers on the left	
Expected Results:	
1. Redirect to a page with all the followers	



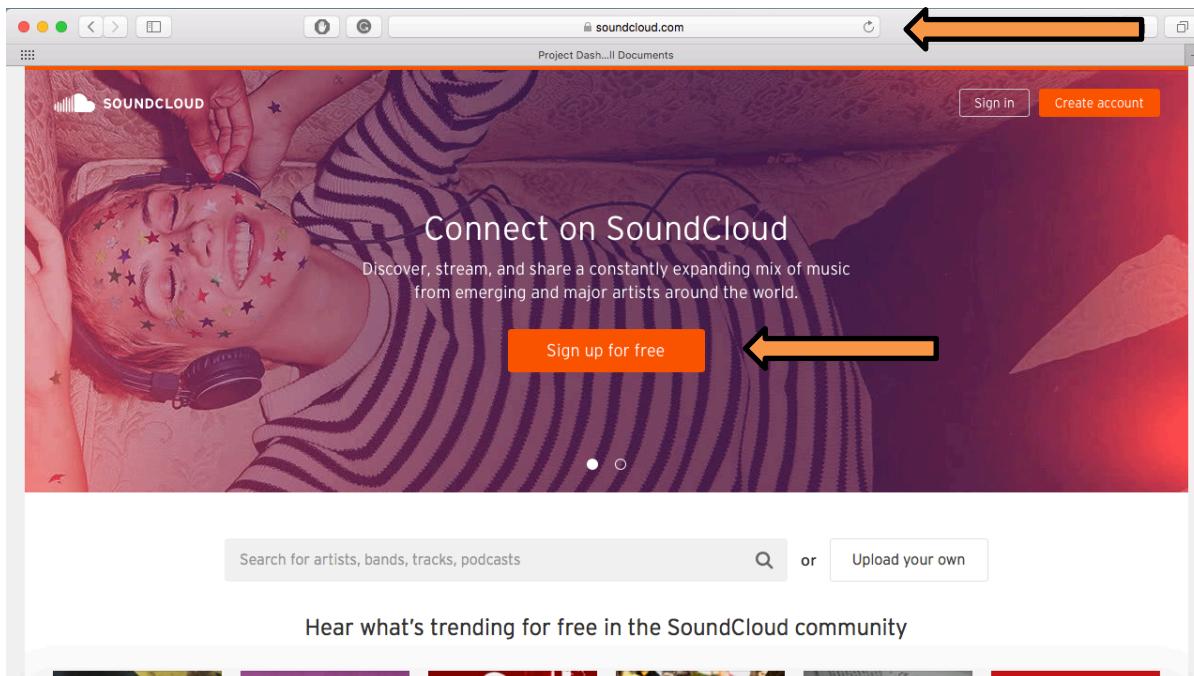
User Actions/ Expected Results	Comments
<p><SCITC10> <“Follow” another user></p> <p>Description: A user should be able to follow other users</p> <p>Development Phase: Testing</p> <p>Goals: To keep track of the music listened by other users</p> <p>Test Data:</p> <p>Test Tools:</p> <p>Test Startup Procedure:</p> <p>Test Closedown Procedure:</p>	
<p>Test Case</p> <p>Preconditions:</p> <ol style="list-style-type: none"> 1. Set up the Test Enviorment 2. Go to SoundCloud.com <p>Test Steps:</p> <ol style="list-style-type: none"> 1. User Signs In 2. Search for a user 3. Click on the follow button under the user's name <p>Expected Results:</p> <ol style="list-style-type: none"> 1. See their music on your profile. 	
	

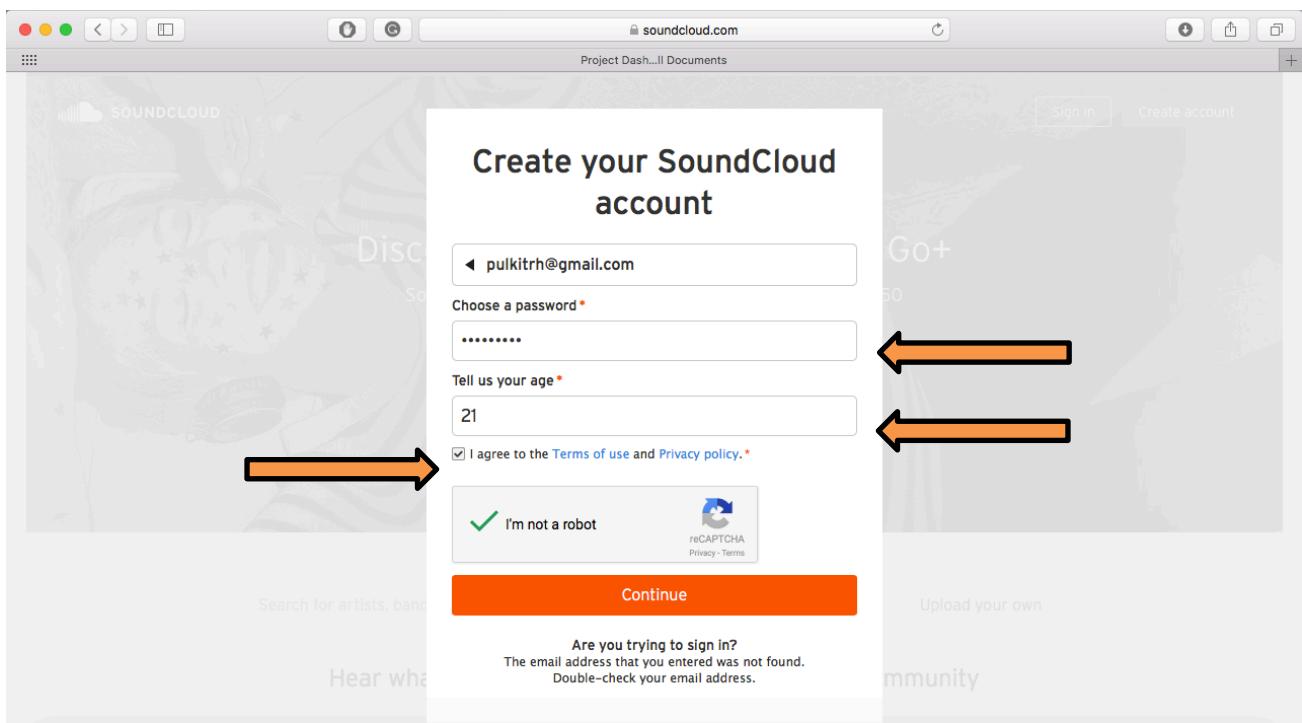
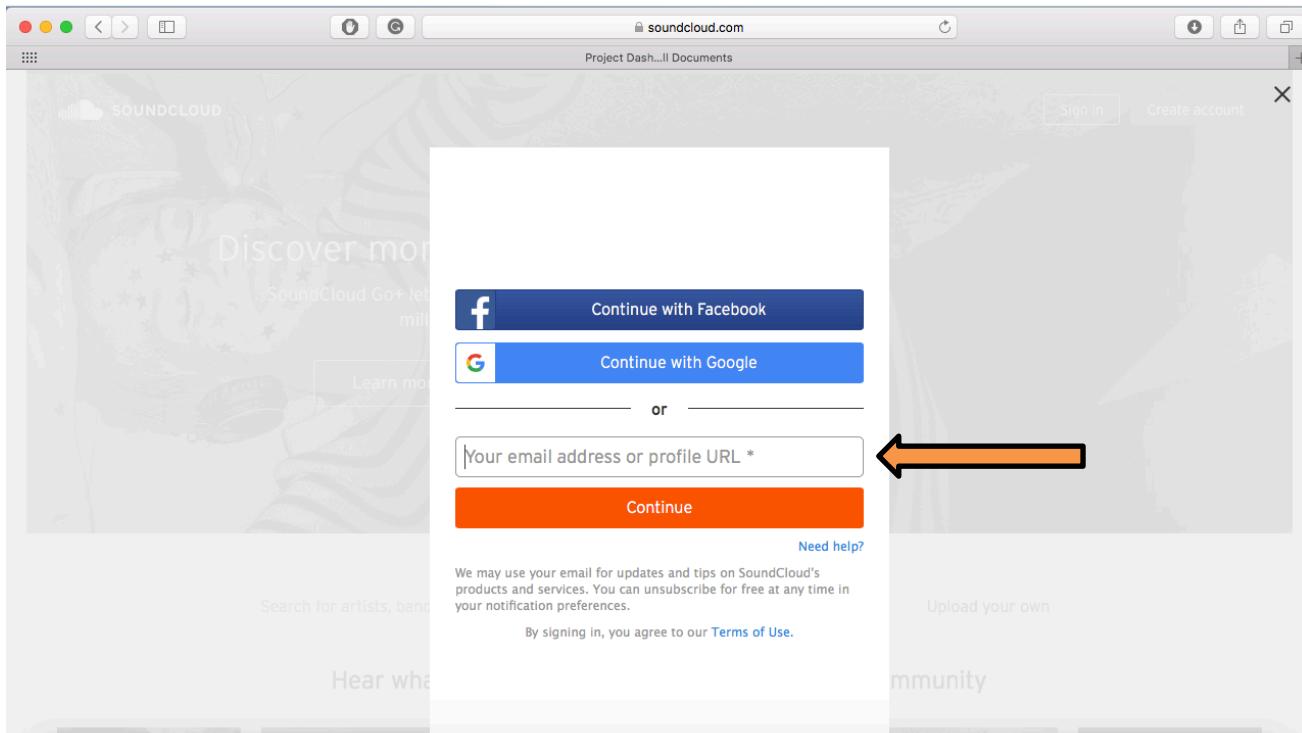
10.3 Transaction Flow Testing

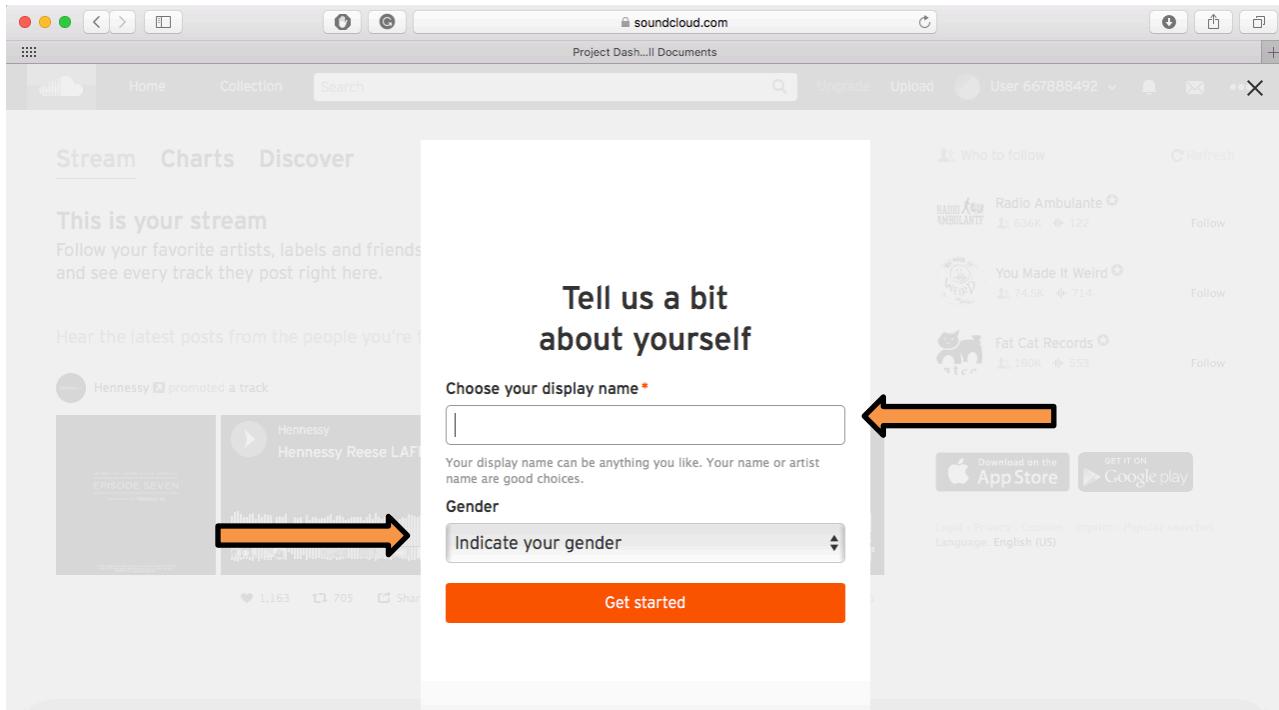
Use Case ID	Primary Actor	Use Cases
SCIUC01	Customer	Create User Account
SCIUC02	Customer	Send Private Message

- SCIUC01

Normal Flow:	<ol style="list-style-type: none"> 1. The customer navigates to the SoundCloud website 2. The customer clicks on the Sign Up for Free Button 3. The customer enters their email. 4. The customer enters password and age and accept the Terms of use & Privacy policies 5. The customer Choose a display name and gender 6. The customer is directed to the homepage of their account
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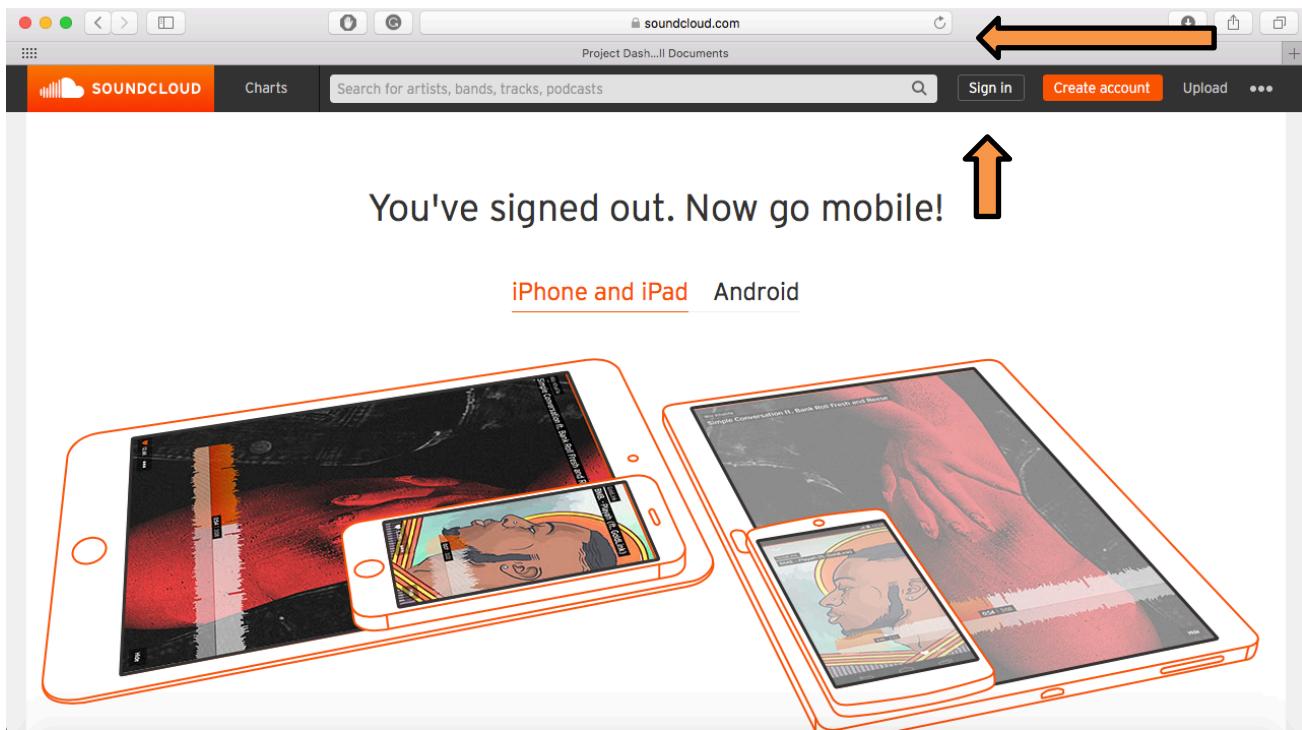


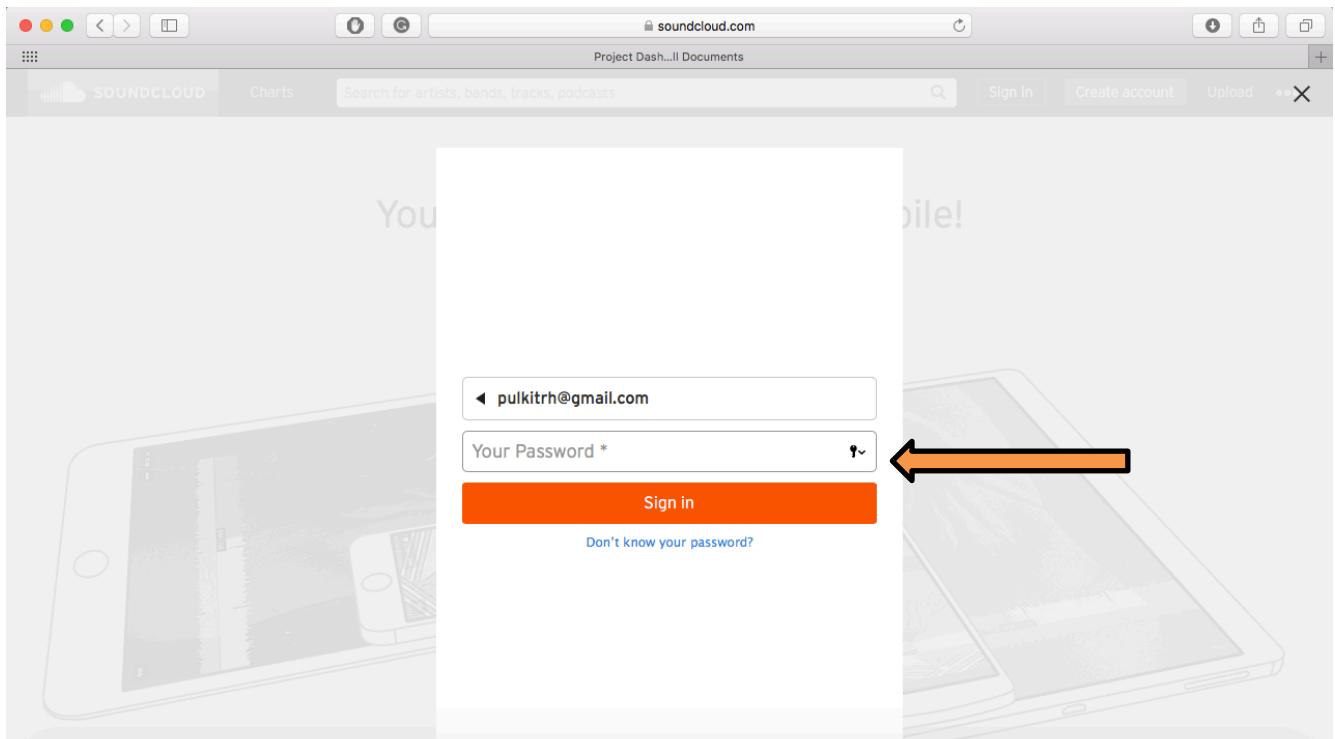
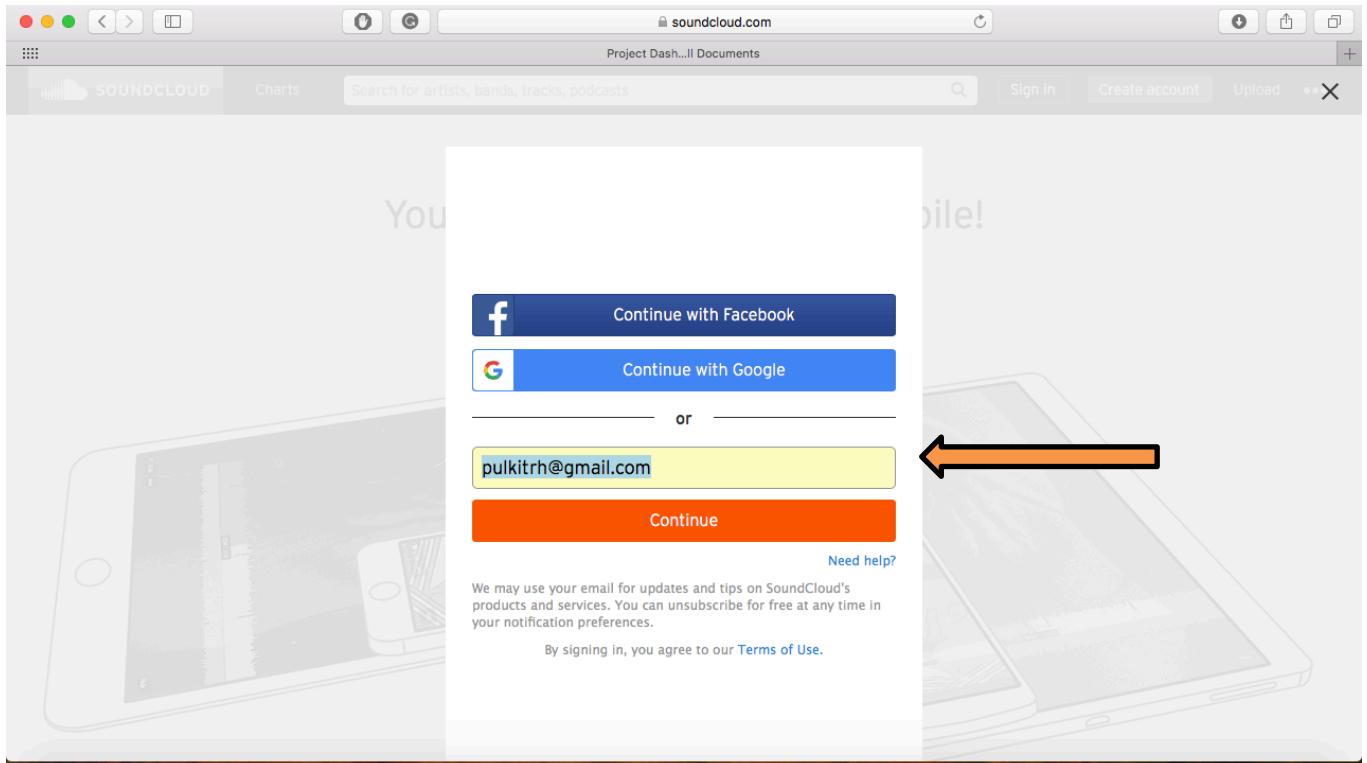




- SCIUC02

Normal Flow:	<ol style="list-style-type: none">1. The customer navigates to the SoundCloud website2. The customer clicks on the Sign In Button3. The customer enters their email.4. The customer enters password5. The customer clicks the mail button in the top right corner.6. The customer clicks on View all messages from the drop down7. The customer clicks on New Message8. The customer enters the other customers username and the message and send it.9. The customer gets a notification that the message has been sent.
---------------------	--





Stream Charts Discover

Hear the latest posts from the people you're following:

Your stream is currently empty. Use **Search** or **Charts** to find music & audio to listen to.

Who to follow

- Masters Of None (457K) Follow
- aspxrocky (3.11M) Follow
- David Guetta (2.28M) Follow

Go mobile

Download on the App Store | GET IT ON Google play

Legal - Privacy - Cookies - Imprint - Popular searches
Language: English (US)

Stream Charts Discover

Hear the latest posts from the people you're following:

Your stream is currently empty. Use **Search** or **Charts** to find music & audio to listen to.

No messages

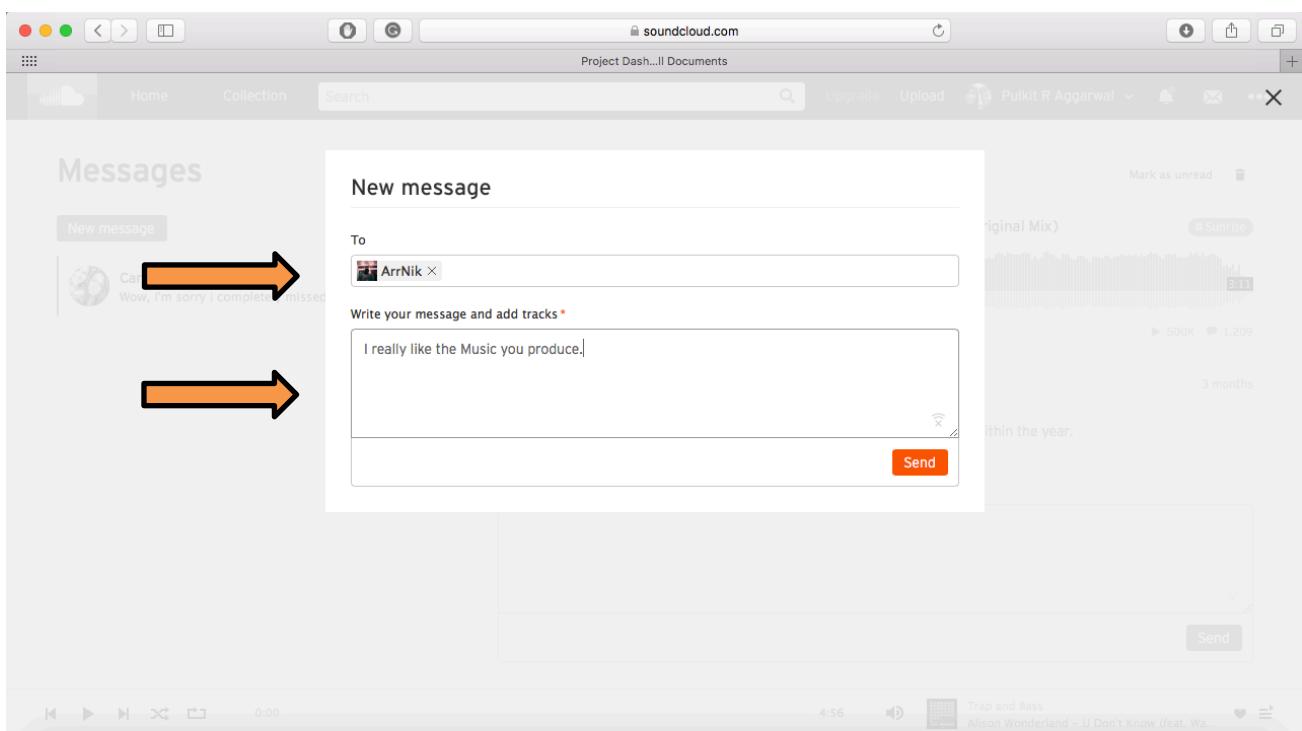
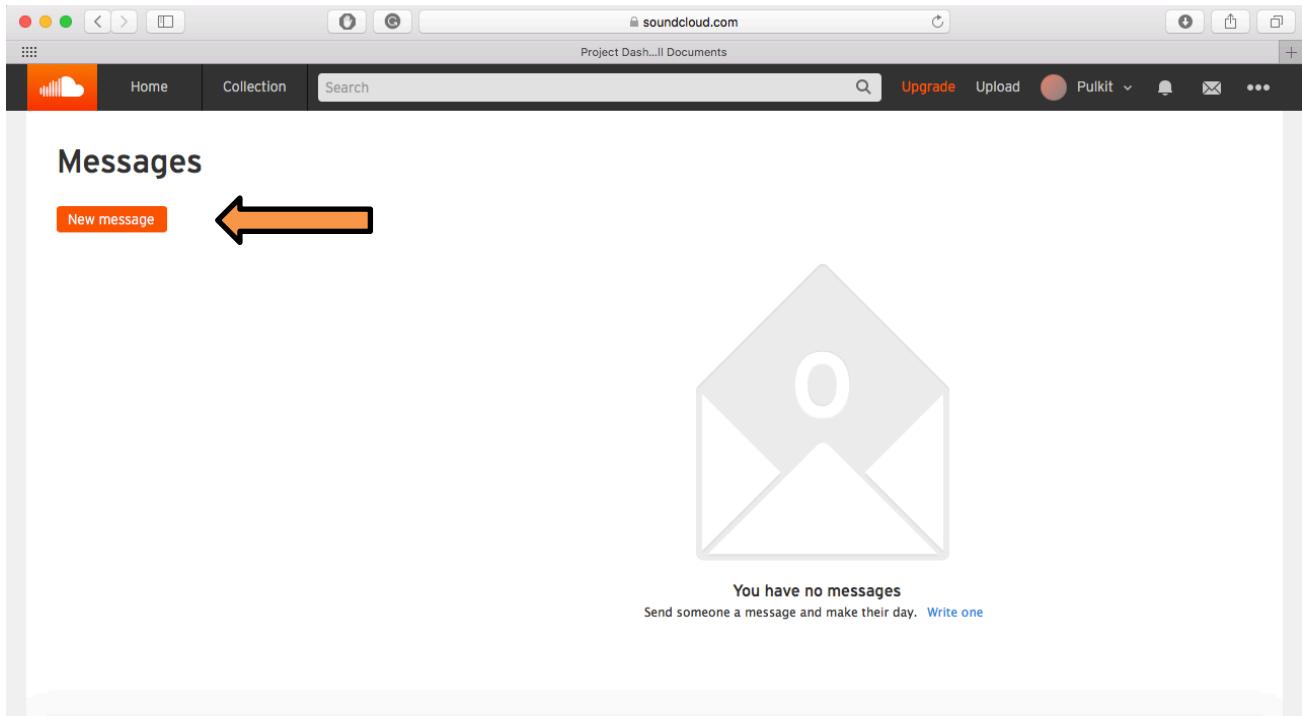
View all messages

- Masters Of None (457K) Follow
- aspxrocky (3.11M) Follow
- David Guetta (2.28M) Follow

Go mobile

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Language: English (US)



The screenshot shows the SoundCloud messaging interface. On the left, there's a sidebar with a 'New message' button. The main area shows a conversation with 'ArrNik'. A message from 'Me' is highlighted with an orange arrow pointing upwards, containing the text: 'I really like the Music you produce.' Below this, another message from 'ArrNik' says: 'I really like the Music you produce.' A message from 'Carly Goulette' is also visible. At the bottom, there's a track player for 'Trap and Bass' by Alison Wonderland.

11 FEATURES NOT TO BE TESTED

The features that we will not be testing include:

- **Features for the Pro Subscription**
 - Unfortunately, the team will not be able to test the Pro Subscription due to limitation of resources therefore the features that are included with the pro subscription will be untested.
- **Data Storage**
 - The team does not have access to the backend, therefore it would not be possible for us to test the database connected to the web application further restricting us from testing the storage.
- **Language**
 - The web application allows the user to select the language used on the website; Unfortunately, our team is not multilingual therefore we won't be able to test the other versions of the web application.
- **Track information & account verification**
 - There are 175 million active listeners on SoundCloud and even more tracks. With the time & resource constraints it would not be worth to test each and every account or track that exists

12 RESOURCES/ROLES & RESPONSIBILITIES

The test team is relatively small, it consists of nine members, each member plays a significant role in the team. The members are as followed:

- **Test Manager**
 - Pulkit Aggarwal
 - Will oversee the entire project, define objectives. Provide consultation and direction. Will make the final decisions
- **Test Designer:**
 - John Doe
 - Will design the tests and major parts of the test plan
- **Test Team Representative:**
 - Bridget Hartill
 - Will represent the team in meetings and take minutes
- **System Testers:**
 - Michelle Tocora, Connor Bol, Max Johnson
 - The main workforce of the project. Executes the tests and are responsible for logging the results and documenting the defects
- **Test System Administration:**
 - Robert Dunhill
 - Ensures that the test environment is managed and maintained
- **Business Expertise:**
 - Alexander Ljung
 - Will provide consultation on the business specific aspects
- **Development Expertise:**
 - Artem
 - Will provide consultation on testing, development, etc.
- **Office Manager**
 - Julia Watson
 - Will Maintain the workplace, handle any non-project related needs of the team and keep things running smoothly

13 SCHEDULES

Major Deliverables

- Test Plan
- Test Design Specifications
- Test Case Specifications
- Test Strategy
- Test Scripts
- Test Cases
- Test Logs
- Test Incident Reports
- Test Summary Reports
- Defect Report
- Communication Logs between teams
- Weekly Meeting reports

14 SIGNIFICANTLY IMPACTED DEPARTMENTS

The main department that would be impacted would be the business and the marketing departments. The Business department would have to reallocate their resources and determine a way to fund the test team. They will be responsible for managing and keeping track of the project as well.

The Marketing department would be also crucial through this project as they will be responsible for delivering the new features, improvement and all the new changes to the public. It is important for the public to be notified about the changes as it will improve the software's usage and make it more usable further increasing the companies revenue.

15 DEPENDENCIES

There aren't many constraints to the project. Some minor constraints may include, language support. As SoundCloud is an international web application, the users can choose what language they want the web site to be in. The team, lacks the skills to comprehend languages apart from English, therefore it will be the bottleneck to test certain outputs on the web pages. Other constraints may include, testing every track available on SoundCloud. The community has over a million tracks and it would be impossible to test every single one even using automated tool as there are limitations to that as well.

16 RISKS/ASSUMPTIONS

Risk	Probability	Impact	Priority	Contingency Plan
Delay in schedule for Delivery of Test Plan	2	3	6	Ask the team to put in extra hours so the Test Plan can be delivered
Resources poorly managed	2	4	8	Send the team managers and leader with leadership seminars
Unexpected Costs	1	4	4	Cut costs, use prior tests for budget estimations and ask the stakeholders for more funding if needed.
Data Loss	1	5	5	Keep all Data backed up and up to date. Also Keep archives of older files in a separate location
Testing scope beyond testers skill	1	4	4	Train the test team, if needed outsource the task
Lack in documentation	3	2	6	The project manager needs to approach the Development manager and make sure enough documentation is provided for the test team to conduct testing

17 TOOLS

The test team would be using a couple tools for functional testing, performance testing & Automated testing. The tools the team would be using are:

- TestRail
 - Test rail is a comprehensive web-based test case management software with a built-in bug tracker: JIRA version 5.0
- Telerik
 - Telerik uses easy script language to build test scripts, it provides abilities to web based applications such as SoundCloud on multiple web browsers.
- WebLoad
 - WebLoad creates Automatic performance reports, It analyzing performance test results from any browser or Mobile device too.
- NUnit
 - NUnit is a unit testing framework based on.NET platform. It is free tool allows to write test scripts manually but not automatically. It also supports data-driven tests that can run in parallel

18 APPROVALS

Name (In Capital Letters)	Signature	Date
• <u>ERIC WAHLFORSS</u>		
• <u>ALEXANDER LJUNG</u>		
• <u>ALYSSA SUNGA</u>		
• <u>MARK DAUSCH</u>		

19 APPENDIX A

- **Problem Reporting Form:**

Defect ID	Unique identifier given to the defect.
Associated Test Case	I.D of Test Case associated with the defect (If bug was encountered during execution of a specific test case)
Summary	Summary of the defect. Keep this clear and concise.
Description	Detailed description of the defect. Describe as much as possible but without repeating anything or using complex words. Keep it simple but comprehensive.
Steps to Replicate	Step by step description of the way to reproduce the defect. Number the steps.
Actual Result	The actual result you received when you followed the steps.
Expected Results	The expected results.
Attachments	Attach any additional information like screenshots and logs.
Remarks	Any additional comments on the defect.
Defect Severity	Severity of the Defect.
Defect Priority	Priority of the Defect.
Reported By	The name of the person who reported the defect.
Status	The status of the defect.

- **Change Request Form:**

Change ID	Unique identifier given to the change request
Associated Test Case	I.D of Test Case associated with the defect (If bug was encountered during execution of a specific test case)
Summary	Summary of the defect. Keep this clear and concise.
Description	Detailed description of the defect. Describe as much as possible but without repeating anything or using complex words. Keep it simple but comprehensive.
Purpose	Step by step description of the way to reproduce the defect. Number the steps.
Actual Result	The actual result you received when you followed the steps.
Expected Results	The expected results.
Attachments	Attach any additional information like screenshots and logs.
Remarks	Any additional comments on the defect.
Defect Severity	Severity of the Defect.
Defect Priority	Priority of the Defect.
Reported By	The name of the person who reported the defect.
Status	The status of the defect.