



A recording and mixing web application: Usability report

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GUI Programming II
Professor Heines
Beta Usability Test 2.0.0
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1 USABILITY TEST SESSION INFORMATION

Date of Report: Thursday April 14, 2016

Date of Test: Thursday April 7, 2016

Location of Test: Olsen Hall Rm. 109
University of Massachusetts Lowell
Lowell, Ma.

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2 PURPOSE

trackstudio a music recording software is untested in the world, therefore user preferences and usability need to be examined to improve its appeal to its demographic base. A usability test with the goal of examining if the user interface as well as the features implemented was performed to see if trackstudio was intuitive and if any implemented features were blocking application usage.

3 THE TEST

3.1 STATION SETUP

We set up two testing stations. A testing station was set up on a desk chair and had a laptop, a pair of over the ear headphones, a copy of the usability demographic form, a copy of the usability task checklist, a copy of the usability questionnaire, and a single proctor. The headphones were plugged into the laptop. The stations had Google Chrome open to <https://trackstudio.herokuapp.com>. Google Chrome had been setup to have microphone access disallowed, and the application was made sure to have been in a logged out state.

3.1.1 Testing materials

3.1.1.1 Laptop

To note there was only one difference to the stations. It was laptop maker/model. One of the stations had a Macintosh laptop while the other had a Windows 10 laptop. Though this might seem inconsistent, it allowed to test the application on different platforms, to get a broader range of results.

3.1.1.2 Headphones

A station had a pair of over the ear headphones, we chose over the ear to sanitarily appeal to more users and in turn make them comfortable during the test.

3.1.1.3 Usability forms

3.1.1.3.1 Demographic survey

This survey wanted to gain user information to see how they met our demographic, some of the questions are objective like name, age and gender; while the rest are subjective. Subjective questions give us an impression of a user's own judgment but cannot be taken fully as fact.

- Name (Open Response)
- Age (Open Response)
- Gender (Male, Female, Other)
- Do you consider yourself a musician? (yes or no)
- Have you ever recorded yourself? (yes or no)
- Do you download music creation software? (yes or no)
- Are you computer savvy? (yes or no)
- Do you play an instrument? (yes or no)
- Can you sing? (yes or no)

3.1.1.3.2 Task checklist

The usability task checklist was broken up into three sections. The first section checked to see if a user could set up hardware access to trackstudio, register for an account and find the tutorial. The following list contains the tasks in the first section.

- ✓ Ensure you're at <https://trackstudio.herokuapp.com>
- ✓ Allow microphone access to trackstudio
- ✓ Register for an account at trackstudio
- ✓ Click "Learn trackstudio"

The second section, tested if a user could perform the tasks given by the tutorial. The following list contains the tasks in the second section labeled **(tutorial tasks)**.

- ✓ Grab those headphones
- ✓ Record to a track
- ✓ Playback my recording
- ✓ Stop my recording
- ✓ Add a reverb effect to my recording
- ✓ Playback my track

While the third section tested actions that were not implemented yet into the tutorial. The following list contains the tasks in the last section.

- ✓ Change the volume for the first recorded track
- ✓ Record a second track
- ✓ Change the volume of my second track
- ✓ Change the treble and bass of my second track
- ✓ Play your song from the beginning
- ✓ Change the treble and bass of my second track
- ✓ Play your song from the beginning
- ✓ Record over a previously recorded track
- ✓ Replace the first track with the "WahWah" effect
- ✓ Play your song from the beginning

3.1.1.3.3 Questionnaire

The questionnaire surveyed a user's thoughts on the application based on their test experience. The following questions were found on the survey, they were open ended.

1. What is your overall impression of trackstudio?
2. What did you like the best?
3. What did you dislike the most?
4. Would you use trackstudio again?
5. What would you like to see improved?

6. What would you like to see removed?

3.2 ACQUIRING A TESTER

Users would either approach or be walking by one of the stations. A proctor would then introduce themselves and ask the user to participate in a usability test. If a user agreed to participate the proctor would ask them to sit down at a station.

3.3 PRE-TEST

Once a user had sat down a proctor would then hand them a usability demographic form and ask them to fill it out. Once complete the proctor would take out the Usability task checklist and read the instructions and motivations to the test, to the user. The user would then be handed the checklist and asked to perform the tasks in order on it.

3.4 USABILITY TEST

The user would then perform the test as described in the checklist, the proctor would stand behind or to the side of the user while monitoring their actions. If the user looked confused the proctor would ask if they had any questions on how to proceed and take notes. If the user was stuck the proctor would show them where to go next and make a note.

3.5 POST-TEST

Once the checklist was completed by the user. The proctor would thank them for their participation. And then ask them to fill out the questionnaire. The user would then be asked if they had any other comments that were not covered by the forms given to them or if anything that they wrote down would be best described verbally. The proctor would then go over any concerns that were brought up and make notes.

The user would again be thanked for their participation, and then the testing station would then be reset for the next user. Proctors at this time would be swapped to allow the initial proctor to review and collect the written materials with other proctors.

This allowed for proctors to be able to exchange knowledge on issues users were having and best allow them to look for other trouble areas that their users might not have seen.

4 RESULTS

In the following section we have aggregated the results of our test by usability form.

4.1 DEMOGRAPHIC SURVEY

During our test we had nine male participants that evaluated trackstudio's beta version, their ages ranged between 20 and 30 with an average of 23. They considered themselves to be computer savvy with about half considering themselves to be musicians, but only a third having experience with music software recording, or playing musical instrument/ singing. These consideration results can be seen in Figure 1.

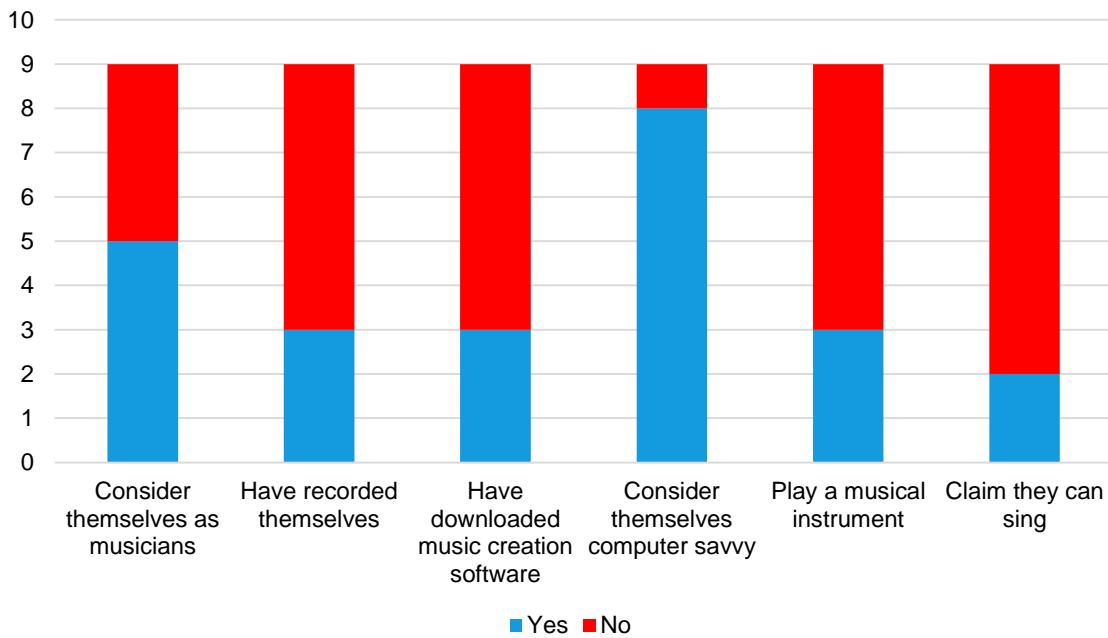


Figure 1: Demographic survey results.

4.2 TASK CHECKLIST

All our users manage to complete the task list, there were a two instances in which users decided to go out of order when following the tutorial. This made the tutorial come out of sync with their actions as the tutorial was expecting certain user actions that were not happening or broke the tutorial flow with expected toggle states on the record button and tutorial state having a mismatch.

4.3 QUESTIONNAIRE RESPONSES

All users completed the questionnaire after the usability test, their results have been aggregated to show their results.

4.3.1 What is your overall impression of trackstudio?

The first question in the survey asked for a general impression of trackstudio, the overall consensus was that it had a good user interface. Aggregated results to this question can be found in Table 1.

Table 1: Results for "What is your overall impression of trackstudio?"

Response	Amount
Good user interface	77.78%
Too much clutter	11.11%
Over simplified effects	11.11%

4.3.2 What did you like the best?

The second question in the survey asked for what users liked the most. We wanted to use these results to get an idea of what features to expand upon in future versions. Users primarily enjoyed trackstudio's simplicity and the ability to add effects. Aggregated results to this question can be found in Table 2.

Table 2: Results for "What did you like the best?"

Response	Amount
Effects	45.00%
Simple/Easy	45.00%
Timer and Animations	10.00%

4.3.3 What did you dislike the most?

The third question covered a user's dislikes. The results of this will help us determine which features to fix. Dislikes were spread out pretty evenly with most users having unique responses, a larger user base might help narrow down what users really dislike. In general the timer and complexity of adding tracks though are the largest dislikes. Another dislike that stands out is the accessibility of the validation responses. Aggregated results to this question can be found in Table 3.

Table 3: Result for "What did you dislike the most?"

Response	Amount
Timer keeps running after song is over	25.00%
Complexity of adding effects to track	25.00%
Effects are too simple, add parameters	12.50%
Not being able to add more tracks	12.50%
Validation colors are hard to read	12.50%
Nothing	12.50%

4.3.4 Would you use trackstudio again?

The fourth question covered whether the application would be a novelty or have a repeat user base. Users unanimously stated that they would use the application again. Aggregated results to this question can be found in Table 4.

Table 4: Results for "Would you use trackstudio again?"

Response	Amount
Yes	100.00%

4.3.5 What would you like to see removed?

The fifth question covered which items a user felt were unnecessary and should be scrapped. The majority of users stated that nothing should be removed. One item Add to track button after selecting effect was alluded to in the responses to in section 0 and is something that needs to be looked at. The aggregated results to this question can be found in Table 5.

Table 5: Results for "What would you like to see removed?"

Response	Amount
Nothing	62.50%
Add to track button after selecting effect	12.50%
Effects partial filling up screen	12.50%
Timer	12.50%

4.3.6 What would you like to see improved?

The last question asked what a user would like for us to work on more. The majority of users wanted us to add more effects and change how they were chosen from, while tutorial responsiveness was another popular response. The aggregated results to this question can be found in Table 6.

Table 6: Results for "What would you like to see improved?"

Response	Amount
More Effects	30.00%
Make tutorial restrict usability and more responsive	20.00%
More responsive when choosing effects	20.00%
Disable play button after one click	10.00%
Colors in sign-up/login validation	10.00%
Nothing	10.00%

5 PROCTOR COMMENTS FROM USER OBSERVATIONS

While interacting with a user during the usability test, proctors made notes regarding the user's actions or inability to act in certain circumstances. These are items that we will be focusing on fixing first in the application. Common issues that were noted were a confusion after registration as to where to go next, as a link was not immediately visible to the user, and clicking the dropdown toggle was not a clear solution. Users were also confused about what some controls did, and that tooltips would be helpful when

hovering over a control. There were issues with playback, and again issues with the multi-step effects process. Aggregated results can be found in Table 7

Table 7: Proctor comments from user observations

Comment	Amount
After registering there was not a clear direction of where the user should go.	17.00%
More tooltips throughout site	11.00%
Clicking play button multiple times, specifically immediately after playing would replay the buffer, even though the previous one was not completed.	11.00%
When click + (add FX) should not need to click "add to track 1" again	11.00%
User would close out of tutorial, leaving tutorial partially uncompleted.	05.00%
The mixer as a whole is too large for the screen.	05.00%
The colors that appear in sign-up/sign-in validator are hard to read.	05.00%
Confused after allowing access to microphone (in allow access page).	05.00%
Stop timer when the song is completed.	05.00%
Instead of tracks call them layers.	05.00%
The “PingPong” effect sounds like a “Reverb” effect.	05.00%
Tutorial button is in an awkward place.	05.00%

6 SUGGESTED CHANGES

Based on the usability test results and the proctor observations we have made a list of items that are suggested as changes to the application, they are listed in Table 8.

The items marked Y in the slated column will be implemented because they are feasible within the time remaining, their implementation is listed in the solution column. Those marked M will possibly be integrated if time permits, and those marked N will not be implemented.

Table 8: Suggested changes

Suggestion	Solution	Slated
Colors in signup validator	Change colors and size to a more visible option.	Y
Confused after allowing access to microphone (in allow access page)	Short tutorial that shows where allow access button is	Y
End counter when track stop	Auto stop track when done	Y
FX Catalog functionality change	Add tooltips to all controls explaining what they are by name, on extended hover add description.	Y
Ping pong sounds like reverb	Change "time" parameter to give more space in between repetitions	Y
Prevent accidental out of order controls usage	Disable unavailable controls	Y
Quit out of tutorial	Change x icon to 'Quit' button	Y
Tutorial in header	Move tutorial to header, close dropdown when clicked.	Y
User is confused after signup and how to close the screen	Close partial after successful login add down and up arrows to dropdown toggle.	Y
When click + (add FX) should not need to click "add to track 1" again	Remove single track add buttons, and show information on hover and click adds track	Y
Make tutorial responsive if a user makes a mistake	Check if a click on another Element was made than what was expected. OR Place overlay over all other parts of screen to prevent accidental click outside of flow.	M
Get started/login (fork at splash screen)	No solution yet	M
Change track name to layers		N
Mixer needs to be small and fit screen		N

We chose to not change the name of track to layer as it went against the brand of trackstudio. Tracks signify the four different recording tracks that the application uses to compose a master track with. Calling them layers would break from this.

Resizing of the mixer will not be implemented as it already has responsive columns to allow for use on mobile devices. Resizing of heights will destroy the layout at this time.

7 CONCLUSION

The developers believe that trackstudio has a solid interface with a lot of functionality, with only minor improvements needed on the main mixer. Most of the suggestions given to us were valid and will be implemented to finish polishing the interface. Continues usability testing will be needed to ensure that the new changes don't bring unwanted effects the user experience.

8 THOUGHTS ON USABILITY TESTING

Usability testing really helps to polish a product, it is necessary. We believe that experience as proctors and usability test designers will help us get better feedback during future projects. It teaches us that users don't always follow directions, that people look for different things and someone not familiar with a product can show you were its deficiencies are. On a learning note participating in a usability test during GUI I as the testers would have given a better start point in learning about how to run and develop our own tests.

User's Name: Ajay Kumar

Instructions to be read to the test subject

Thanks for the time to part in our usability test for TrackStudio! The goal of this test it to test our software and get your feedback on how we can make TrackStudio a better, smoother experience. Our goal is to create a simplified sound recording application that works in modern web browsers. We differentiate our application by presenting you with "creative constraints". We believe this will help you focus on your music rather than the technicalities associated with other sound recording applications.

Check List

Reset Station

- Logged Previous User Out
- Reset "Microphone Access"

Form

- Filled out demographic survey
- Went through checklist
- Completed open response

Notes

 trackstudio Usability Test

Please fill out this form to the best of your abilities.

Name: Ajay Kumar

Age: 23

Gender: Male Female Other

Do you consider yourself a musician?
Yes No

Have you ever recorded yourself? Yes No

Do you download music creating software?
Yes No

Are you computer savvy?
Yes No

Do you play an instrument?
Yes No

Can you sing? Yes No

trackstudio Usability Task List

Please complete the list of tasks in order as best as you can.

- 1 Ensure you're at <https://trackstudio.herokuapp.com>
- 2 Allow microphone access to TrackStudio
- 3 Register for an account at TrackStudio
- 4 Click "Learn trackstudio"

(tutorial tasks)

- 1 Grab those headphones
- 2 Record to a track
- 3 Playback my recording
- 4 Stop my recording
- 5 Add a reverb effect to my recording
- 6 Playback my track

- 1 Change the volume for the first recorded track
- 2 Record a second track
- 3 Change the volume of my second track
- 4 Change the treble and bass of my second track
- 5 Add a "PingPong" effect to my second track
- 6 Play your song from the beginning
- 7 Record over a previously recorded track
- 8 Pan track to the left
- 9 Replace the effect on the first track with the "WahWah" effect
- 10 Play your song from the beginning

 trackstudio Questionnaire

Please be honest, you won't hurt our feelings.

What is your overall impression of trackstudio?	ITS good and easy to use	✓
What did you like the best?	adding effect	✓
What did you dislike the most?	Nothing much. Could add more tracks	✓
Would you use trackstudio again?	Yes, Sure	✓
What would you like to see improved?	Can add more effects.	✓
What would you like to see removed?	Timers	✓

User's Name: Alex Li

Instructions to be read to the test subject

Thanks for the time to part in our usability test for TrackStudio! The goal of this test it to test our software and get your feedback on how we can make TrackStudio a better, smoother experience. Our goal is to create a simplified sound recording application that works in modern web browsers. We differentiate our application by presenting you with "creative constraints". We believe this will help you focus on your music rather than the technicalities associated with other sound recording applications.

Check List

Reset Station

- Logged Previous User Out
- Reset "Microphone Access"

Form

- Filled out demographic survey
- Went through checklist
- Completed open response

Notes

- fx mouse over info

 trackstudio Usability Test

Please fill out this form to the best of your abilities.

Name: Alex

Age: 21

Gender: Male Female Other

Do you consider yourself a musician?
Yes No

Have you ever recorded yourself?
Yes No

Do you download music creating software?
Yes No

Are you computer savvy?
Yes No

Do you play an instrument?
Yes No

Can you sing? Yes No

trackstudio Usability Task List

Please complete the list of tasks in order as best as you can.

- 1 Ensure you're at <https://trackstudio.herokuapp.com>
- 2 Allow microphone access to TrackStudio
- 3 Register for an account at TrackStudio
- 4 Click "Learn trackstudio"

(tutorial tasks)

- 1 Grab those headphones
- 2 Record to a track
- 3 Playback my recording
- 4 Stop my recording
- 5 Add a reverb effect to my recording
- 6 Playback my track

- 1 Change the volume for the first recorded track
- 2 Record a second track
- 3 Change the volume of my second track
- 4 Change the treble and bass of my second track
- 5 Add a "PingPong" effect to my second track
- 6 Play your song from the beginning
- 7 Record over a previously recorded track
- 8 Pan track to the left
- 9 Replace the effect on the first track with the "WahWah" effect
- 10 Play your song from the beginning

• 901 7300 3200M X7

trackstudio Questionnaire

Please be honest, you won't hurt our feelings.

What is your overall impression of trackstudio?	The ui looks nice, but is slightly confusing, at first due to clutter.
What did you like the best?	I liked the customability given to the user through the different effects.
What did you dislike the most?	The ui seems a little cluttered, and when moving over the effects nothing happens.
Would you use trackstudio again?	Yes, it was fun to use and I could see myself using this in my free time.
What would you like to see improved?	Mainly the visual feedback when choosing effects
What would you like to see removed?	Nothing, everything seems to have its purpose

User's Name: Bunchieag Soh

Instructions to be read to the test subject

Thanks for the time to part in our usability test for TrackStudio! The goal of this test it to test our software and get your feedback on how we can make TrackStudio a better, smoother experience. Our goal is to create a simplified sound recording application that works in modern web browsers. We differentiate our application by presenting you with "creative constraints". We believe this will help you focus on your music rather than the technicalities associated with other sound recording applications.

Check List

Reset Station

- Logged Previous User Out
- Reset "Microphone Access"

Form

- Filled out demographic survey
- Went through checklist
- Completed open response

Notes

- closed out of tutorial
- pressed play button twice (bug)
- mixer needs to fit within screen

 trackstudio Usability Test

Please fill out this form to the best of your abilities.

Name: Bunghieeng Soth

Age: 23

Gender: Male Female Other

Do you consider yourself a musician?
Yes No

Have you ever recorded yourself?
Yes No

Do you download music creating software?
Yes No

Are you computer savvy?
Yes No

Do you play an instrument?
Yes No

Can you sing? Yes No

 trackstudio Usability Task List

Please complete the list of tasks in order as best as you can.

- 1 Ensure you're at <https://trackstudio.herokuapp.com>
- 2 Allow microphone access to TrackStudio
- 3 Register for an account at TrackStudio
- 4 Click "Learn trackstudio"

(tutorial tasks)

- 1 Grab those headphones
- 2 Record to a track
- 3 Playback my recording
- 4 Stop my recording
- 5 Add a reverb effect to my recording
- 6 Playback my track

- 1 Change the volume for the first recorded track
- 2 Record a second track
- 3 Change the volume of my second track
- 4 Change the treble and bass of my second track
- 5 Add a "PingPong" effect to my second track
- 6 Play your song from the beginning
- 7 Record over a previously recorded track
- 8 Pan track to the left
- 9 Replace the effect on the first track with the "WahWah" effect
- 10 Play your song from the beginning

 trackstudio Questionnaire

Please be honest, you won't hurt our feelings.

What is your overall impression of trackstudio?	The UI looks very clean with a lot of functionality for users to control the user flow.
What did you like the best?	Adding sound effect to each track.
What did you dislike the most?	"Learn trackstudio" is not very intuitive.
Would you use trackstudio again?	Absolutely.
What would you like to see improved?	More cool effects.
What would you like to see removed?	N/A

User's Name: Chad

Instructions to be read to the test subject

Thanks for the time to part in our usability test for TrackStudio! The goal of this test it to test our software and get your feedback on how we can make TrackStudio a better, smoother experience. Our goal is to create a simplified sound recording application that works in modern web browsers. We differentiate our application by presenting you with "creative constraints". We believe this will help you focus on your music rather than the technicalities associated with other sound recording applications.

Check List

Reset Station

- Logged Previous User Out
- Reset "Microphone Access"

Form

- Filled out demographic survey
- Went through checklist
- Completed open response

Notes

- confused after allow mic access
- confused after sign up partial
- End counter/timer when song over
- instead of tracks, call them "layers"
- "+" for effect, safe to assume
you are adding to that track you
clicks on

 trackstudio Usability Test

Please fill out this form to the best of your abilities.

Name: Chadd

Age: 30

Gender: Male Female Other

Do you consider yourself a musician?
Yes No

Have you ever recorded yourself?
Yes No

Do you download music creating software?
Yes No

Are you computer savvy?
Yes No

Do you play an instrument?
Yes No

Can you sing? Yes No

 trackstudio Usability Task List

Please complete the list of tasks in order as best as you can.

- 1 Ensure you're at <https://trackstudio.herokuapp.com>
- 2 Allow microphone access to TrackStudio
- 3 Register for an account at TrackStudio
- 4 Click "Learn trackstudio"

(tutorial tasks)

- 1 Grab those headphones
- 2 Record to a track
- 3 Playback my recording
- 4 Stop my recording
- 5 Add a reverb effect to my recording
- 6 Playback my track

- 1 Change the volume for the first recorded track
- 2 Record a second track
- 3 Change the volume of my second track
- 4 Change the treble and bass of my second track
- 5 Add a "PingPong" effect to my second track
- 6 Play your song from the beginning
- 7 Record over a previously recorded track
- 8 Pan track to the left
- 9 Replace the effect on the first track with the "WahWah" effect
- 10 Play your song from the beginning

 trackstudio Questionnaire

Please be honest, you won't hurt our feelings.

What is your overall impression of trackstudio?	Cool interface, easy to use
What did you like the best?	Simple
What did you dislike the most?	Timer etc play / Stop control Should toggle off @ end of track.
Would you use trackstudio again?	Yes
What would you like to see improved?	More instruction - make tutorial responsive to completed steps instead of having to click next
What would you like to see removed?	Track Selector for effects - Safe to assume selector clicked should add effect to respective track

User's Name: Gregory Burns

Instructions to be read to the test subject

Thanks for the time to part in our usability test for TrackStudio! The goal of this test it to test our software and get your feedback on how we can make TrackStudio a better, smoother experience. Our goal is to create a simplified sound recording application that works in modern web browsers. We differentiate our application by presenting you with "creative constraints". We believe this will help you focus on your music rather than the technicalities associated with other sound recording applications.

Check List

Reset Station

- Logged Previous User Out
- Reset "Microphone Access"

Form

- Filled out demographic survey
- Went through checklist
- Completed open response

Notes

- tutorial in nav (relocate)

 trackstudio Usability Test

Please fill out this form to the best of your abilities.

Name: Gregory Saras

Age: 23

Gender: Male Female Other

Do you
consider
yourself a
musician?
Yes No

Have you ever
recorded
yourself?
Yes No

Do you
download
music creating
software?
Yes No

Are you
computer
savvy?
Yes No

Do you play an
instrument?
Yes No

Can you sing? Yes No

 trackstudio Usability Task List

Please complete the list of tasks in order as best as you can.

- 1 Ensure you're at <https://trackstudio.herokuapp.com>
- 2 Allow microphone access to TrackStudio
- 3 Register for an account at TrackStudio
- 4 Click "Learn trackstudio"

(tutorial tasks)

- 1 Grab those headphones
- 2 Record to a track
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- 5 Add a reverb effect to my recording
- 6 Playback my track

- 1 Change the volume for the first recorded track
- 2 Record a second track
- 3 Change the volume of my second track
- 4 Change the treble and bass of my second track
- 5 Add a "PingPong" effect to my second track
- 6 Play your song from the beginning
- 7 Record over a previously recorded track
- 8 Pan track to the left
- 9 Replace the effect on the first track with the "WahWah" effect
- 10 Play your song from the beginning

 trackstudio Questionnaire

Please be honest, you won't hurt our feelings.

What is your overall impression of trackstudio?	Overall I like it. Simple UI, easy to use <input checked="" type="checkbox"/>
What did you like the best?	I like that you don't bombard the user with options
What did you dislike the most?	Needling to select the track when adding an effect
Would you use trackstudio again?	Yes
What would you like to see improved?	I would fix some of the text colors "passwords don't match" was hard to read Possibly add a splash page.
What would you like to see removed?	I think its all solid

User's Name: Silas Price

Instructions to be read to the test subject

Thanks for the time to part in our usability test for TrackStudio! The goal of this test it to test our software and get your feedback on how we can make TrackStudio a better, smoother experience. Our goal is to create a simplified sound recording application that works in modern web browsers. We differentiate our application by presenting you with "creative constraints". We believe this will help you focus on your music rather than the technicalities associated with other sound recording applications.

Check List

Reset Station

- Logged Previous User Out
- Reset "Microphone Access"

Form

- Filled out demographic survey
- Went through checklist
- Completed open response

Notes

- couldn't figuer out how to get out of sign-up partial
- tried to use "stop" to end recording

 trackstudio Usability Test

Please fill out this form to the best of your abilities.

Name: Silas Price

Age: 20

Gender: Male Female Other

Do you consider yourself a musician?
Yes No

Have you ever recorded yourself? Yes No

Do you download music creating software?
Yes No

Are you computer savvy?
Yes No

Do you play an instrument?
Yes No

Can you sing? Yes No

 trackstudio Usability Task List

Please complete the list of tasks in order as best as you can.

- 1 Ensure you're at <https://trackstudio.herokuapp.com>
- 2 Allow microphone access to TrackStudio
- 3 Register for an account at TrackStudio
- 4 Click "Learn trackstudio"

(tutorial tasks)

- 1 Grab those headphones
- 2 Record to a track
- 3 Playback my recording
- 4 Stop my recording
- 5 Add a reverb effect to my recording
- 6 Playback my track

- 1 Change the volume for the first recorded track
- 2 Record a second track
- 3 Change the volume of my second track
- 4 Change the treble and bass of my second track
- 5 Add a "PingPong" effect to my second track
- 6 Play your song from the beginning
- 7 Record over a previously recorded track
- 8 Pan track to the left
- 9 Replace the effect on the first track with the "WahWah" effect
- 10 Play your song from the beginning

 trackstudio Questionnaire

Please be honest, you won't hurt our feelings.

What is your overall impression of trackstudio?	good app for quick recording. • effects a bit oversimplified	✓
What did you like the best?	simplicity! bare necessities are effective	✓
What did you dislike the most?	The record button being akin to a play button... as a DAW user, I'm used to an arm • oversimplified fx - 1 button for complex effects	✓
Would you use trackstudio again?	perhaps for sketches	✓
What would you like to see improved?	The play button - disable when playing?	✓
What would you like to see removed?	Effects window filling the screen	✓

User's Name: S N Nguyen

Instructions to be read to the test subject

Thanks for the time to part in our usability test for TrackStudio! The goal of this test it to test our software and get your feedback on how we can make TrackStudio a better, smoother experience. Our goal is to create a simplified sound recording application that works in modern web browsers. We differentiate our application by presenting you with "creative constraints". We believe this will help you focus on your music rather than the technicalities associated with other sound recording applications.

Check List

Reset Station

- Logged Previous User Out
- Reset "Microphone Access"

Form

- Filled out demographic survey
- Went through checklist
- Completed open response

Notes

More tooltip for controls

Better colors in validator

 trackstudio Usability Test

Please fill out this form to the best of your abilities.

Name: Son N guyen

Age: 23

Gender: Male Female Other

Do you consider yourself a musician?
Yes No

Have you ever recorded yourself?
Yes No

Do you download music creating software?
Yes No

Are you computer savvy?
Yes No

Do you play an instrument?
Yes No

Can you sing? Yes No

trackstudio Usability Task List

Please complete the list of tasks in order as best as you can.

- 1 Ensure you're at <https://trackstudio.herokuapp.com>
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(tutorial tasks)

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 trackstudio Questionnaire

Please be honest, you won't hurt our feelings.

What is your overall impression of trackstudio?	Good UI
What did you like the best?	The timer and animation
What did you dislike the most?	Color need improvement for readability
Would you use trackstudio again?	Yes
What would you like to see improved?	Responsive.
What would you like to see removed?	

User's Name: Tyler brainbridge

Instructions to be read to the test subject

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Check List

Reset Station

- Logged Previous User Out
- Reset "Microphone Access"

Form

- Filled out demographic survey
- Went through checklist
- Completed open response

Notes

Confused after signed up

 trackstudio Usability Test

Please fill out this form to the best of your abilities.

Name: Tyler Bainbridge

Age: 20

Gender: Male Female Other

Do you consider yourself a musician?
So far

Have you ever recorded yourself? Yes No

Do you download music creating software?
Yes No

Are you computer savvy?
Yes No

Do you play an instrument?
Yes No

Can you sing?
Yes No

 trackstudio Usability Task List

Please complete the list of tasks in order as best as you can.

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(tutorial tasks)

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 trackstudio Questionnaire

Please be honest, you won't hurt our feelings.

What is your overall impression of trackstudio?	flippin' cool!	✓
What did you like the best?	effects, it's flawless	✓
What did you dislike the most?	nothing	✓
Would you use trackstudio again?	Hell yeah	✓
What would you like to see improved?	nothing	✓
What would you like to see removed?	nothing	✓

User's Name: Zach

Instructions to be read to the test subject

Thanks for the time to part in our usability test for TrackStudio! The goal of this test it to test our software and get your feedback on how we can make TrackStudio a better, smoother experience. Our goal is to create a simplified sound recording application that works in modern web browsers. We differentiate our application by presenting you with "creative constraints". We believe this will help you focus on your music rather than the technicalities associated with other sound recording applications.

Check List

Reset Station

- Logged Previous User Out
- Reset "Microphone Access"

Form

- Filled out demographic survey
- Went through checklist
- Completed open response

Notes

- confused after sign up
- stop button bug
- ping pong sounds like reverb

 trackstudio Usability Test

Please fill out this form to the best of your abilities.

Name: Zachary Wong

Age: 21

Gender: Male Female Other

Do you consider yourself a musician?
Yes No

Have you ever recorded yourself? Yes No

Do you download music creating software?
Yes No

Are you computer savvy?
Yes No

Do you play an instrument?
Yes No

Can you sing?
Yes No

 trackstudio Usability Task List

Please complete the list of tasks in order as best as you can.

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 trackstudio Questionnaire

Please be honest, you won't hurt our feelings.

What is your overall impression of trackstudio?	great gui! familiar gui and easy to us
What did you like the best?	multitrack ease , effects
What did you dislike the most?	the timer keeps running on if it stopped to the length of the longest track
Would you use trackstudio again?	yes
What would you like to see improved?	tutorial should restrict usability
What would you like to see removed?	none