



CS4116 Project Report

GROUP 1

Rohan Arya 20086377

Jai. 20045247

Dennis Kolomiyets 20250762

Konan Heney 20242603



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Introduction

For our Software Development project, we were asked to design a website, based on the popular Social Networking site for businesses, LinkedIn. We were told that our website could target many occupations or just one specifically. We went over multiple ideas before settling on an idea. Our site will be known as Trebble. Trebble is a site, similar to LinkedIn, that targets musicians. The way we have gone about this is by finding out as much information about music, musicians, and the music industry in general, as we could. Our website will contain many features such as the ability to

- Find people interested in music.
- People who play an instrument and what they specialize in.
- People who need to hire musicians, eg. businesses, theatres, schools
- What skillset do these musicians have?
- What kind of job is required?

All of these key features and a simple search box make our website a simple, easy-to-use, tool that can help musicians and alike find an occupation that is suitable to them.

We have features for employers and businesses also. They will have the ability to

- Check potential employees' work records.
- Experience in an instrument.
- Users can send messages to their fellow musicians.
- Post jobs through their social feed.
- Review a potential employee's relevant experience.

All these features combined, create a website for easy communication between employers and employees, potential or private. It can lead to a person seeking an occupation in their field of interest, a reality.

High-Level Functionality

Our site can be broken down into a few points of discussion on the functionality of our website. These are registration, login, home page, search tools, profile, friends, and messaging.

Contact us through:

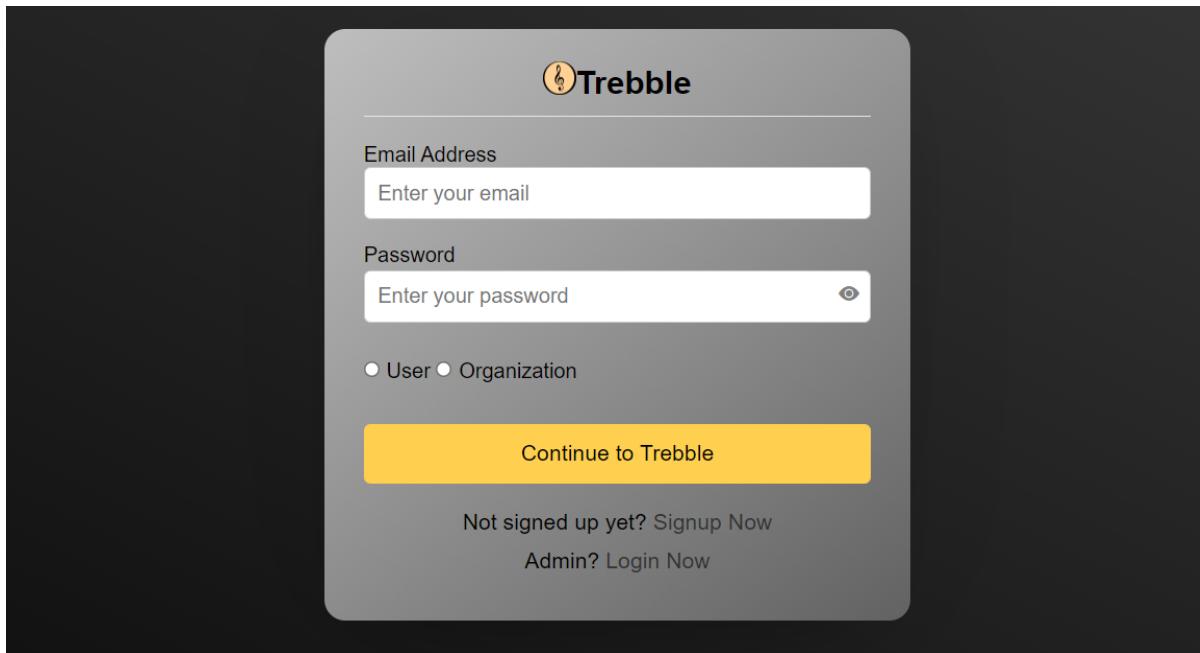
facebook: Trebble instagram:
@Trebble Gmail:
trebble@gmail.com

About Trebble

Trebble is a business and employment-focused social media platform for people working in the music industry, that works through website.

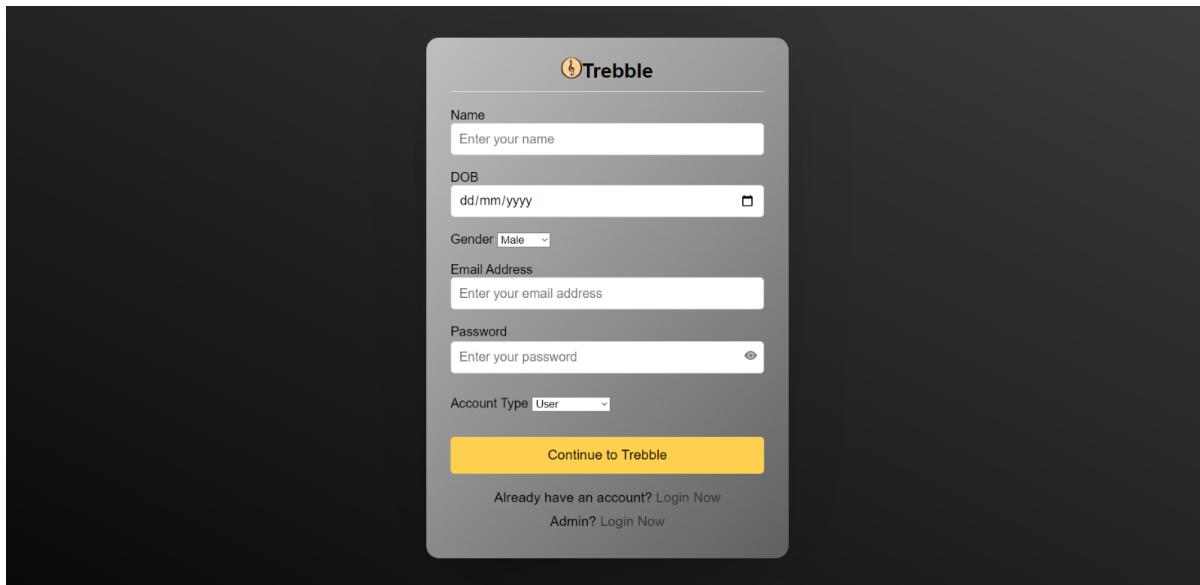
a. Login

The first page you are greeted with when you enter the Trebble website is the login screen. It's a simple process of inputting the email address that you signed up with and the password that you chose. If you put in the correct information, you will be brought to the home screen. If you put in incorrect information, ie your email or password was wrong, you will get a message stating "Incorrect Email Or Password".



b. Registration

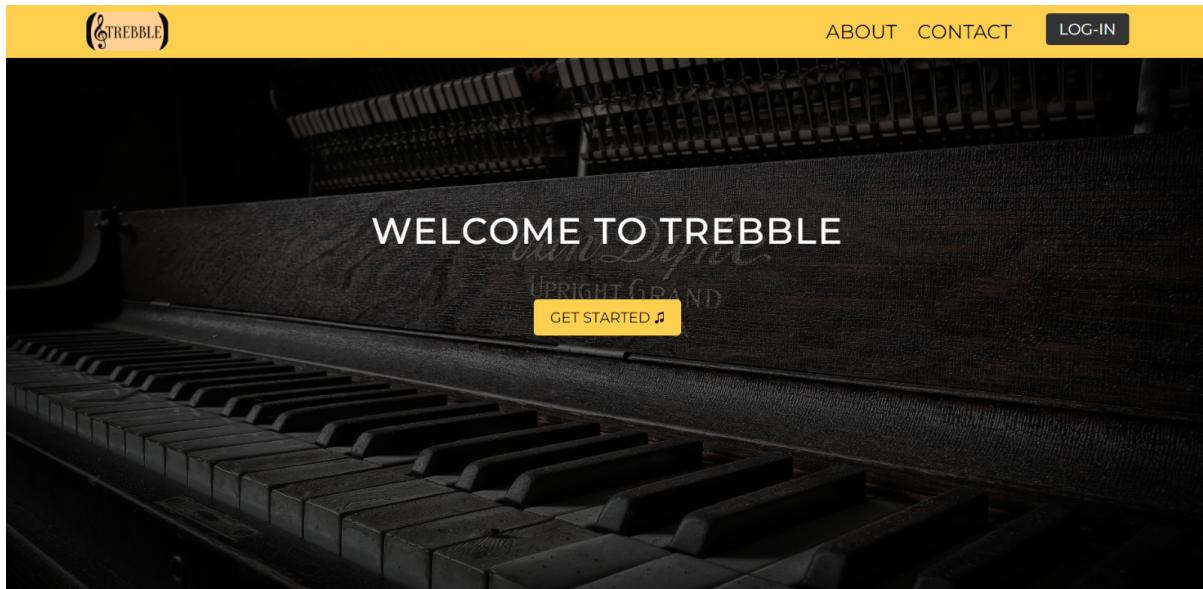
Signing up for Treble is simple. The first thing you do is input your display name, email address, date of birth, and account type (User or Organisation) and choose a password. These are your credentials to access the site in the future.



c. Welcome Page

The home page is designed with the same theme that the Treble website envisioned at the beginning. It has the same black and gold layout as the rest of the website. When you first visit

the website, you are greeted with a message saying ‘Welcome to Trebble, Where music meets Business’, with a picture of a piano in the background. You then have the option to ‘Get Started’ which takes you to the login screen, as mentioned above. You can also find information in our ‘About’ section and ‘Contact’ details in the top right.

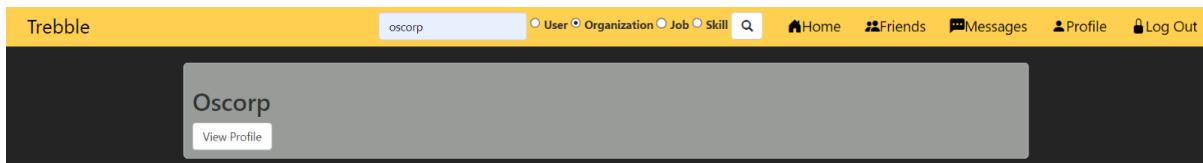


d. Search Tools

The search bar on our website allows any user to search through any user, organization, or job post that might be available. Initially, we could only search for users and businesses, but over time, were able to perfect the search bar, allowing anyone to search for anything they please.



Here we can see a test run of the search bar. I searched for an organization, Oscorp, and selected the organization option, and sure enough, we can see the result on the page. From here we will be able to view the profile of the organization, follow their page, and direct message them through the messages board.



This can also be used for skills searching too. If you don’t know what organization you would like to work for, you can search based on your musical interests and find a job that way. As you can

see here, I searched for jobs that included 'voice' as a requirement and I got a satisfying number of results

The screenshot shows a user interface for a platform called 'Trebble'. At the top, there's a yellow header bar with the word 'Trebble' on the left and a search bar containing the word 'voice'. To the right of the search bar are buttons for 'User', 'Organization', 'Job', 'Skill', and a magnifying glass icon. Below the header, there's a navigation bar with links for 'Home', 'Friends', 'Messages', 'Profile', and 'Log Out'. The main content area displays five job listings in a grid format. Each listing has a title, a 'View Job' button, and a small thumbnail image. The titles are: 'Rat catcher', 'Cello and Singing', 'spiderman', 'Bass/Singer', and 'Sing'. All five titles have a small thumbnail image next to them.

e. Profile

Upon sign-up, all users will have their profiles displayed to the public. The information in a user's profile can be changed anytime to add new details or make their page look more tidy. As you can see from the image below, we have the user 'Benjamin Franklin'. The skills linked to the profile include voice and cello. You can also see this user is currently working as a singer with 'Queen' and from there you can see the employer they work for. Also included is an education qualification to emphasize all the details that can be seen in a user's profile.

Profile

Benjamin Franklin

1843-05-03

M

89899779

New York

Skills list

VOICE
CELLO

Current Gig

[View Employer](#)

TITLE : Singer
START_DATE : 2023-04-05
DESCRIPTION : Singinging
ORGANIZATION : Queen

Education

TITLE : test
SCHOOL_NAME : test
START_DATE : 2023-04-08
END_DATE : 2023-04-16
DESCRIPTION : test
GRADE : test

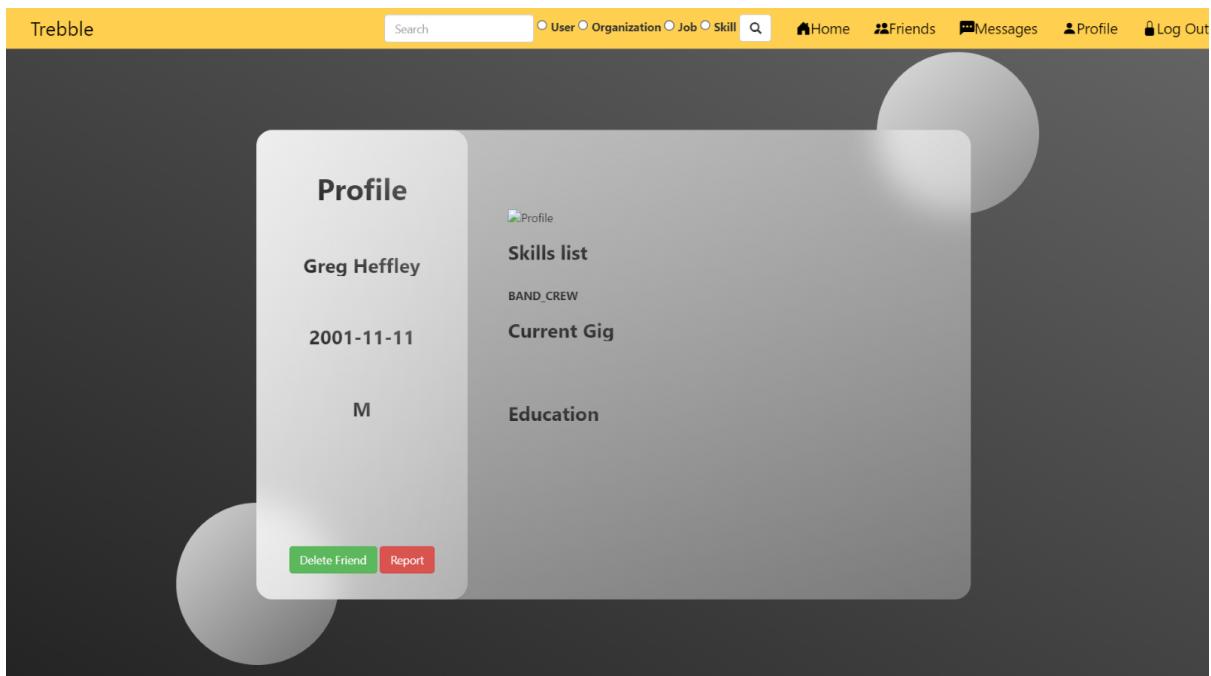
f. Friends

Here we can see the functionality of the friends tab. When you click on the friends button in the top right, you will be directed to your friend list which is viewable only to you and your friend.

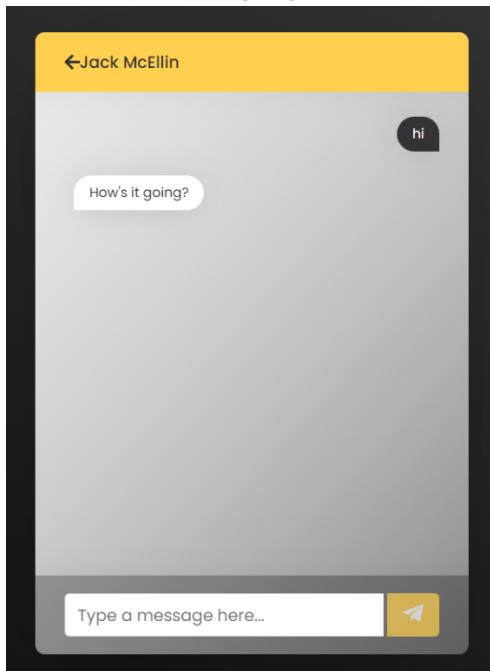
Greg Heffley

[View Profile](#)

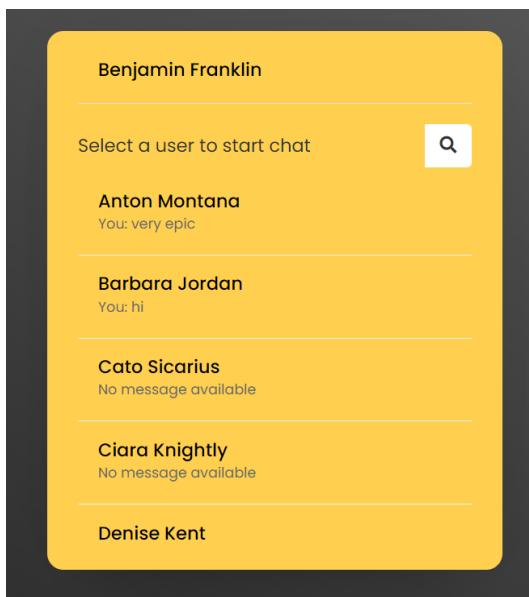
From here we can view our friends' page and we even added the option to remove that friend or report them to the administration if suspicious activity is found. Once a user has 3 reports, they are automatically suspended and an admin will have to decide whether to unsuspend that user or permanently ban them.



g. Messaging



The final important function of our website is the messaging feature. This allows all users of the site to communicate easily and effectively. Simply click on the 'Messages' button and you will be directed to the private messaging board where you can select a user to whom you want to message.



Here you can see the list of people who are available to message, and you can even see the last message that was exchanged. On the right you can see a basic conversation between 2 users, showcasing the simplicity of the messaging function on Trebble.

Site Access

Our Website Address is hosted on Infinity free and our details are as follows.

Website Address <http://trebble.42web.io/index.html>

Cpanel Link

<https://cpanel.epizy.com/panel/indexpl.php?id=50c2ee1bb75f5a5e4f80d33c7f21a22ab8405ae8>

Account Details		
USERNAME epiz_33810149	PASSWORD qMAcAhdhxcF Show/Hide	STATUS Active
LABEL Website for trebble.42web.io	WEBSITE IP 185.27.134.151	HOSTING VOLUME vol1_3
HOME DIRECTORY /home/vol1_3/epizy.com/epiz_33810149	CREATION DATE 2023-03-16	

FTP Details for epiz_33810149

FTP USERNAME epiz_33810149	FTP PASSWORD qMAcAHdhxcF Show/Hide	FTP HOSTNAME ftpupload.net
FTP PORT (OPTIONAL) 21		

MySQL Databases for epiz_33810149

MYSQL USERNAME epiz_33810149	MYSQL PASSWORD qMAcAHdhxcF Show/Hide	MYSQL DATABASE NAME epiz_33810149_XXX (see below)
MYSQL HOSTNAME sql109.epizy.com	MYSQL PORT (OPTIONAL) 3306	

Trello Board Link <https://trello.com/b/pMO5RGNE/cs4116-trebble-project>

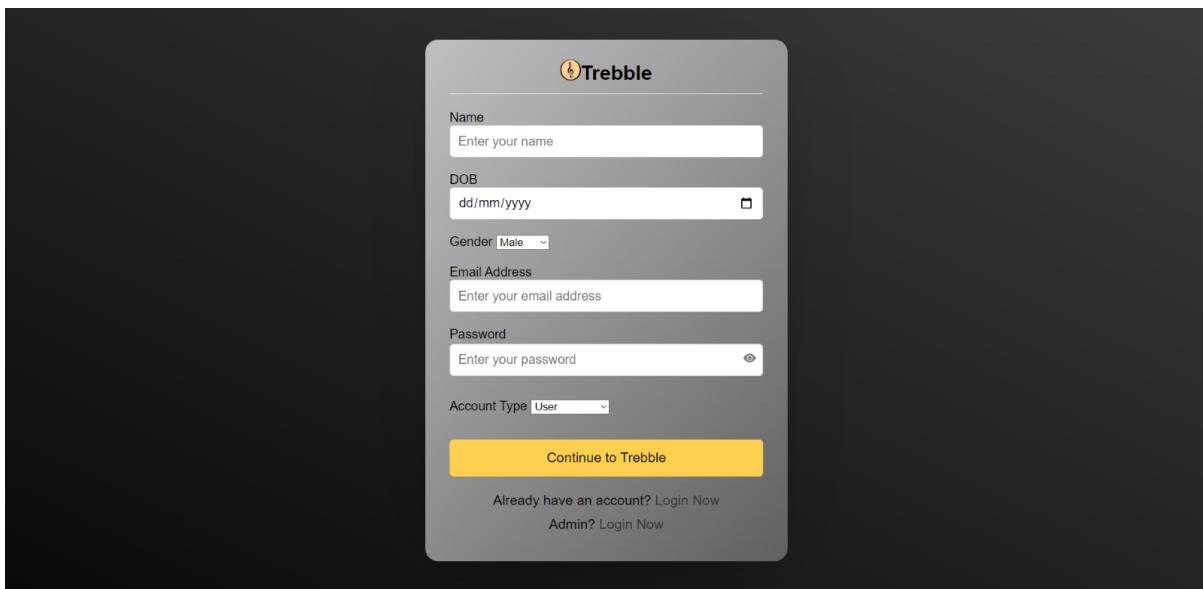
Grade Breakdown Link

https://docs.google.com/spreadsheets/d/10lyihJ5_LBZmYj_bZVIK6O_k14j6WvXf8lsA2sk_Ksl/edit#gid=0

Key Functionality

Allow users to register and describe themselves in a profile. The description should contain traits such as qualifications, skills, employment history, etc. & Permit certain users to register and describe companies - a company is any organization that can employ a user. Users should be able to link their profiles to organizations

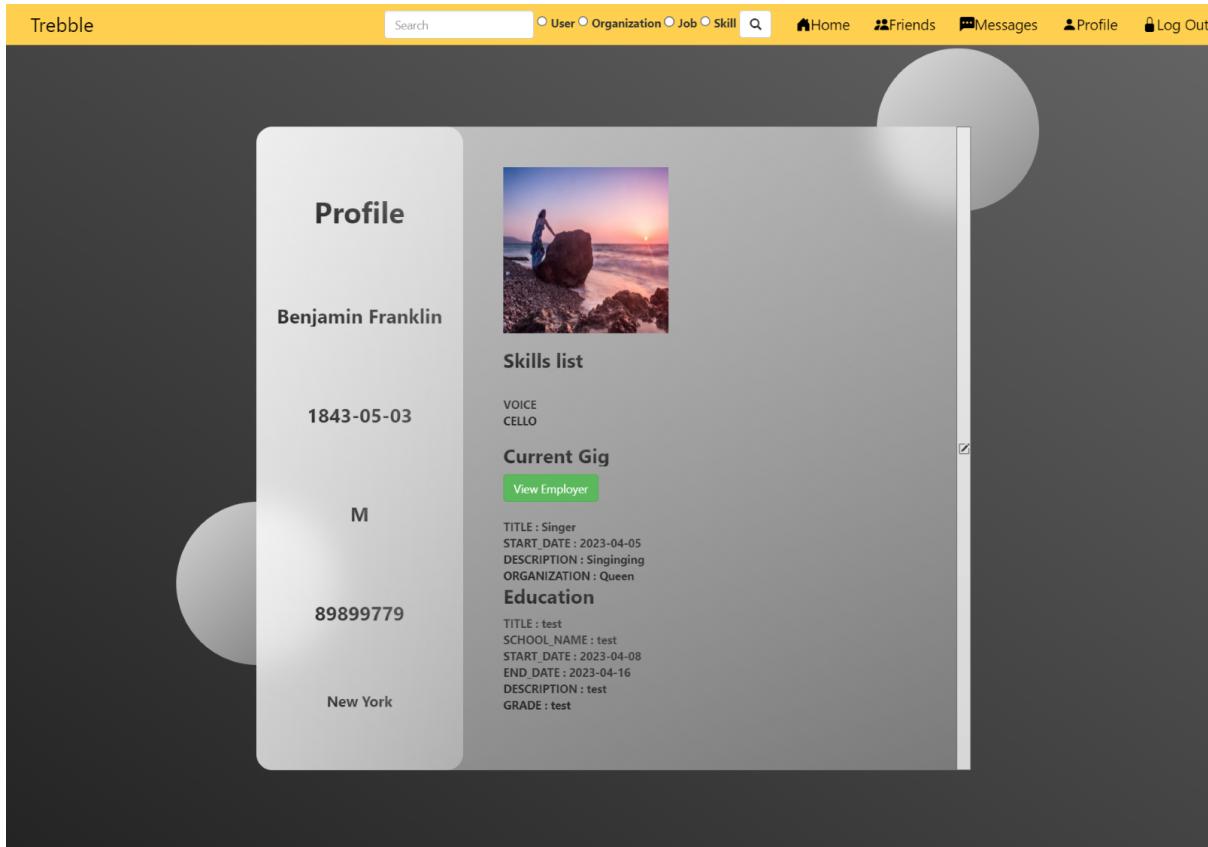
Signing up for Treble is simple. The first thing you do is input your display name, email address, date of birth, and account type (User or Organisation) and choose a password. These are your credentials to access the site in the future.



Upon sign-up, all users will have their profiles displayed to the public. The information in a user's profile can be changed anytime to add new details or make their page look more tidy. While signing up as a user the user will be required to enter their date of birth and gender, and while can then set up their email address and password for the website, for signing up and user authentication. You can click on the eye icon to hide/show your password for security. As you can see from the image below, we have the user 'Benjamin Franklin'. The skills linked to the profile include voice and cello. You can also see this user is currently working as a singer with 'Queen' and from there you can view the employer they

work for. Also included is an education qualification to emphasize all the details that can be seen in a user's profile.

Similarly, you can signup as an organization as well, where you can choose an organization instead of a user in the signup form from the drop-down option, labeled 'Account type'. And once all is set up, the organization can then proceed to its homepage to look post jobs, search for users and message fellow candidates for further inquiries.



Users should be able to search for other users and create connections (like friends on Facebook). It should be possible to search based on name, skills, companies worked for, etc.

If a user is logged in as a user and then searches for another user account from the search bar. For example, we are logged in as Benjamin Franklin who is a user.

As you can see above Benjamin searches for "Greg" in the search bar.

The screenshot shows a search results page for the name "greg". At the top, there is a yellow header bar with the word "Trebble" on the left and a search bar containing "greg". To the right of the search bar are buttons for "User", "Organization", "Job", "Skill", a magnifying glass icon, and links for "Home", "Friends", "Messages", "Profile", and "Log Out". Below the header, the search results are displayed in a grid format:

- Cello and Singing**
L4 cello and singer
[View Job](#)
- Rat catcher**
Catch Rats
[View Job](#)
- Cello and Saxaphone Co.**
Cello and Saxaphone only job
[View Job](#)
- spiderman**

Each result card has a yellow "EXACT MATCH!" or "COMMON MATCH..." button at the bottom right. The background of the page is black.

All users with the name Greg show up as shown above and Benjamin can view the necessary profiles.

The screenshot shows a profile page for a user named "Greg Heffley". At the top, there is a yellow header bar with the word "Trebble" on the left and a search bar containing "Search". To the right of the search bar are buttons for "User", "Organization", "Job", "Skill", a magnifying glass icon, and links for "Home", "Friends", "Messages", "Profile", and "Log Out". The main content area features a large profile card for "Greg Heffley" with the following details:

- Name: Greg Heffley
- [View Profile](#)

Then you can see Greg's Profile and as he is currently not Benjamin's Friend he has the option to add him as his friend.

The screenshot shows the Trebble application interface. At the top, there is a yellow navigation bar with the word "Trebble" on the left and various menu items on the right: "Search", "User", "Organization", "Job", "Skill", "Home", "Friends", "Messages", "Profile", and "Log Out". Below the navigation bar, the main content area has a dark background. On the left, there is a white sidebar labeled "Profile" containing the following information: "Greg Heffley", "2001-11-11", and a gender indicator "M". To the right of the sidebar, there are several sections: "Skills list" (with a thumbnail labeled "Profile" and the text "BAND_CREW"), "Current Gig" (empty), and "Education" (empty). At the bottom of the sidebar, there are two buttons: "Add Friend" (green) and "Report" (red).

Then in the Friends section, Benjamin can see Greg as a friend.

This screenshot shows the same Trebble application interface as the previous one, but from a different perspective. It appears to be the "Friends" section of the application. In the center, there is a white box containing the name "Greg Heffley" and a "View Profile" button below it. The rest of the screen is dark, indicating that the user is viewing the friends list.

Now when he looks at Greg's profile he has the option to delete him as a friend instead of adding him.

The screenshot shows a user profile page for 'Greg Heffley'. At the top, there's a navigation bar with links for Home, Friends, Messages, Profile, and Log Out. Below the navigation is a search bar and a sidebar with a profile picture placeholder. The main content area displays the user's name, birth date (2001-11-11), gender (M), and a 'Skills list' section which currently contains 'BAND CREW' and 'Current Gig'. There are also links for 'Education' and 'Delete Friend' or 'Report'.

You can also search based on the organization name, jobs, and job skills.

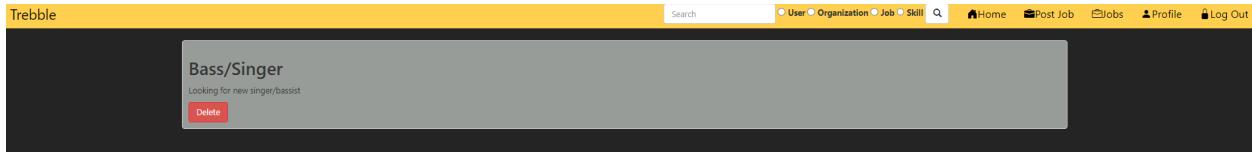
Organizations should be able to advertise vacancies that require specific skills and/or experience.

As an organization account, you can create a job posting using the "Post Job" button in the navbar. Once you access that page, you should be greeted by the screen below.

The screenshot shows a 'Job Details' form. At the top, there's a navigation bar with links for Home, Post Job, Jobs, Profile, and Log Out. Below the navigation is a search bar and a sidebar with a profile picture placeholder. The main content area has three text input fields labeled 'Enter Job Title', 'Enter Short Description', and 'Enter Long Description'. Below these is a 'Skills' section containing a list of musical instruments: Guitar, Bass, Synthesizer, Voice, Drums, Double Bass, Cello, Violin, Viola, Trumpet, Trombone, Saxophone, French Horn, Tuba, Flute, Recorder, Tin Whistle, Bassoon, and Marimba.

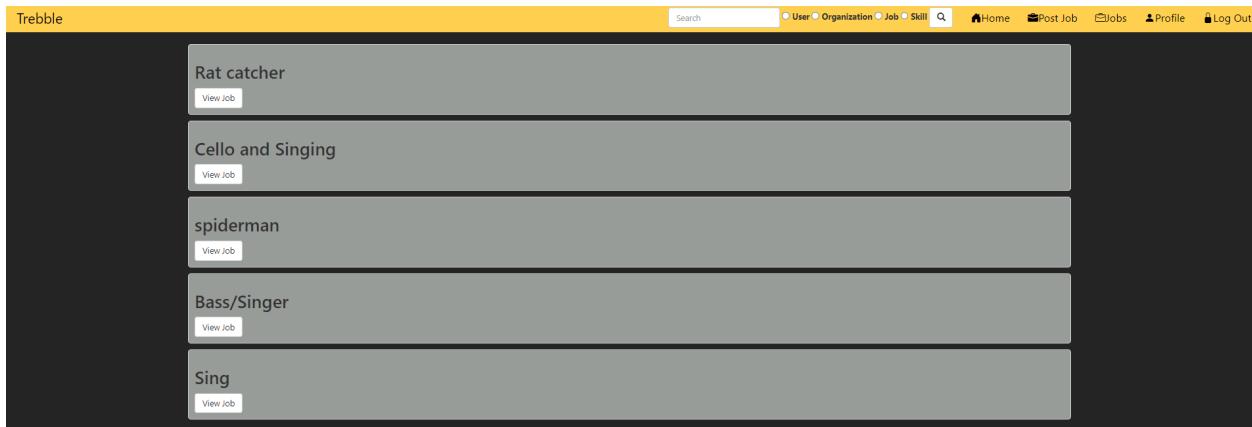
Here you will be able to fill out a form containing the details belonging to the job you wish to post. The text fields are mandatory and the skills list contains many more options than

what is shown. Afterward, when you are done filling out your form. You may scroll to the bottom to press the green “Confirm” button. This will have successfully posted your job. To confirm you can click on the “Jobs” button in the Navbar and you should see the job there. You can also delete your jobs in this window. See below:

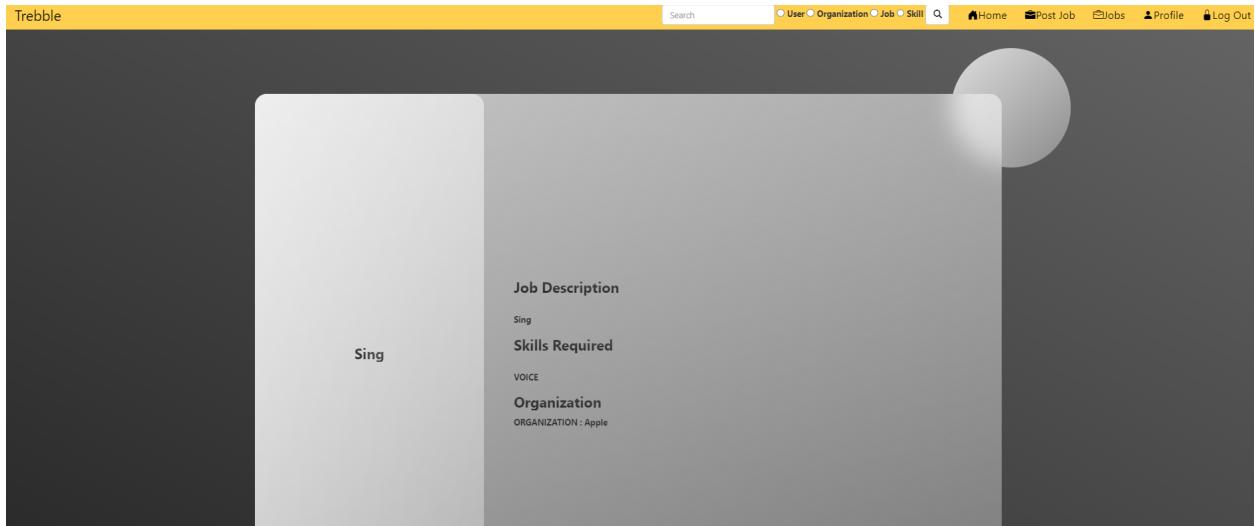


Users should be able to search for vacancies based on their skills;

Users may search for job vacancies based on their skills using the search bar in the navbar simply type in the instrument you can play, click on the skills radio button and press the search button. As an example, I looked up “voice” in the search bar. Which returned the following jobs.



All of these jobs contain voice as a skill, hence they are shown to the user. You can then click on the jobs to confirm.



The website should automatically suggest vacancies to users whose skills match them

Once you log in as a user and your account is set up in a way that skills have been selected for your profile, returning to the homepage(which would have previously been blank) should now present you with jobs that match your skills. These are split into two categories, "Exact match" and "Common Match". An exact match provides you with jobs that perfectly share the skills that you have, whilst a common match gives you jobs that you may share one or two skills. There are no replicas in either list. Jobs that you share no common skills with at all are not displayed. See below:

The screenshot shows a search results page for the term "cello and singing". At the top, there is a yellow header bar with the word "Treble" on the left and navigation links on the right: Search, User, Organization, Job, Skill, Home, Friends, Messages, Profile, and Log Out. Below the header, a yellow button says "EXACT MATCH!". The search results are displayed in a list of cards:

- Cello and Singing**
14 cello and singer
[View Job](#)
- Rat catcher**
Catch Rats
[View Job](#)
- Cello and Saxaphone Co.**
Cello and Saxaphone only job
[View Job](#)
- spiderman**
spider
[View Job](#)
- Bass/Singer**

A yellow button labeled "COMMON MATCH..." is located between the first and second cards.

Like with searching, you can click the view Job button to display more information about the job.

There should be a site administrator who can delete or temporarily ban users, remove abusive or offensive vacancy ads, and edit all profiles (both organization and user).

Users and Organizations can report each other and there is an automatic ban system in place. In the automatic ban if you have all 3 flags equal to 1 your account is banned and it is now up to the site administrator to unblock (set all flags to 0) or delete the user or organization. Also, the admin can edit and profile a user or an organization. The administrator can also delete jobs that it finds inappropriate.

The screenshot shows a web browser window with a dark header bar containing various icons and links. Below the header, there is a yellow button labeled "USERS". The main content area displays four user profiles in separate boxes:

- USER ID 80**: NAME Anton Montana, with a "View Profile" button.
- USER ID 81**: NAME Benjamin Franklin, with a "View Profile" button.
- USER ID 82**: NAME Barbara Jordan, with a "View Profile" button.
- USER ID 83**: NAME Cato Sicarius, with a "View Profile" button.

Admin display screen above showing users

The screenshot shows a web browser window with a dark header bar containing various icons and links. Below the header, there is a yellow button labeled "Profile". The main content area displays the profile information for User ID 80:

USER_ID:- 80

PASSWORD:-
Password\$1234

EMAIL:-
amontana@hotmail.com

NAME:- Anton Montana

DOB:- 1984-03-02

GENDER:- M

MOBILE:-

ADDRESS:-

FLAG_1:- 0

FLAG_2:- 0

FLAG_3:- 0

UNBLOCK

EDIT PROFILE **DELETE**

On the right side of the profile box, there are sections for "Skills list" and "Current gigs". The "Skills list" section contains: DOUBLE_BASS, CELLO, VIOLA, SAXAPHONE, UKULELE. The "Current gigs" section is currently empty.

Viewing user to edit, unblock if flags are equal to 1, or delete the user.

The screenshot shows a web browser window with a dark header bar containing various icons and links. Below the header, a yellow button labeled "ORGANIZATIONS" is visible. The main content area displays five organization profiles, each in its own grey box:

- ORG ID 10**: NAME Beatles! [View Profile](#)
- ORG ID 11**: NAME CellAndSaxOnly [View Profile](#)
- ORG ID 13**: NAME org [View Profile](#)
- ORG ID 14**: NAME Queen [View Profile](#)
- ORG ID 15**: NAME ants [View Profile](#)

Admin display screen above shows organizations

The screenshot shows a web browser window with a dark header bar containing various icons and links. The main content area displays a detailed profile for **ORG_ID:- 10** in a white box:

Profile

ORG_ID:- 10

PASSWORD:-
Password\$1234

EMAIL:- beatles@gmail.com

NAME:- Beatles!

TELEPHONE:- 983498738

ADDRESS:- America

FLAG_1:- 0

FLAG_2:- 0

FLAG_3:- 0

[UNBLOCK](#)

[EDIT PROFILE](#) [DELETE](#)

Viewing organization to edit, unblock if flags are equal to 1, or delete organization.

JOB ID 58
ORG ID 10
View Job

JOB ID 59
ORG ID 11
View Job

JOB ID 60
ORG ID 10
View Job

JOB ID 62
ORG ID 21
View Job

JOB ID 63
ORG ID 21
View Job

Admin display screen above showing jobs

Not secure | trebble.42web.io/adminprofile/job.php?user_id=58

[Inbox \(19\) - jal...](#) [Rediffmail](#) [jalidue0909@...](#) [Email - Jal - O...](#) [jalidue0909@...](#) [Inbox | Jaldude...](#) [AOL Mail](#) [Microsoft Offi...](#) [Merge your P...](#) [CENTRAL BOA...](#) [CBSE Exam Re...](#) [AIEE](#)

JOB_ID:- 58

ORG_ID:- 10

JOB TITLE:- Rat catcher

Job Small Description

Catch Rats

Job Large Description

Long Rat catch

Skills Required

VOICE
VIOLIN

Organization

ORGANIZATION : Beatles!

DELETE

Viewing job to delete



Sources

Logo designed in Canva: [Logo Maker | Create Free Logos in Minutes | Canva](#)

W3 schools website for ideas: [HTML Tutorial](#)

IDE used to design and develop our website: [Visual Studio Code](#)

Welcome page wallpaper: [Old Piano HD wallpaper | Pxfuel](#)

Benjamin Franklin Profile photo: [Test Image](#)