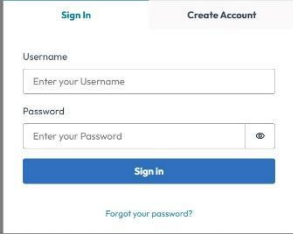


PawTracks User Guide



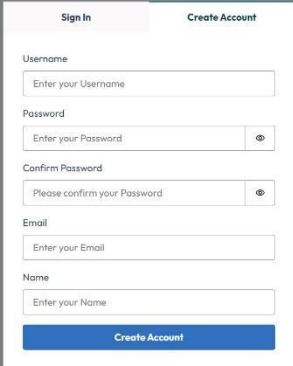
Signing Up

New users are first greeted with a form displaying a Username and a Password field as well as buttons for Signing In and Resetting a Password.



The image shows a 'Sign In' form centered on a dark gray background. The form has two tabs at the top: 'Sign In' (active) and 'Create Account'. Below the tabs, there are two input fields: 'Username' with the placeholder 'Enter your Username' and 'Password' with the placeholder 'Enter your Password' and a toggle icon. A blue 'Sign In' button is positioned below the password field. At the bottom of the form, there is a link that says 'Forgot your password?'.

However, if a new user does not already have an account and wishes to create a new one, new users can click the [Create Account](#) tab on the top right of the form. Once doing so, a new form with a [Username](#), [Password](#), [Confirm Password](#), [Email](#), and [Name](#) is displayed. Once new users complete the form, they can click the [Create Account](#) button at the bottom of the form to create an account.

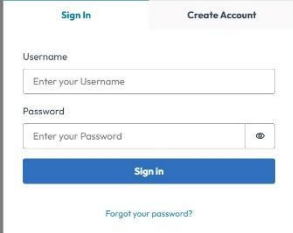


The image shows a 'Create Account' form centered on a dark gray background. The form has two tabs at the top: 'Sign In' and 'Create Account' (active). Below the tabs, there are five input fields: 'Username' with the placeholder 'Enter your Username', 'Password' with the placeholder 'Enter your Password' and a toggle icon, 'Confirm Password' with the placeholder 'Please confirm your Password' and a toggle icon, 'Email' with the placeholder 'Enter your Email', and 'Name' with the placeholder 'Enter your Name'. A blue 'Create Account' button is positioned at the bottom of the form.

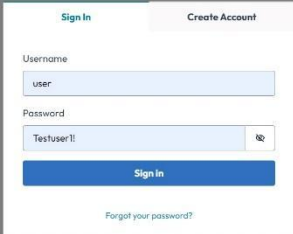
Once users complete the form, they will need to [check their email](#) for a confirmation link to finalize account creation and gain access to the web application.

Logging In

If a user already has an account, they can fill in their account information on the [Sign In](#) form.

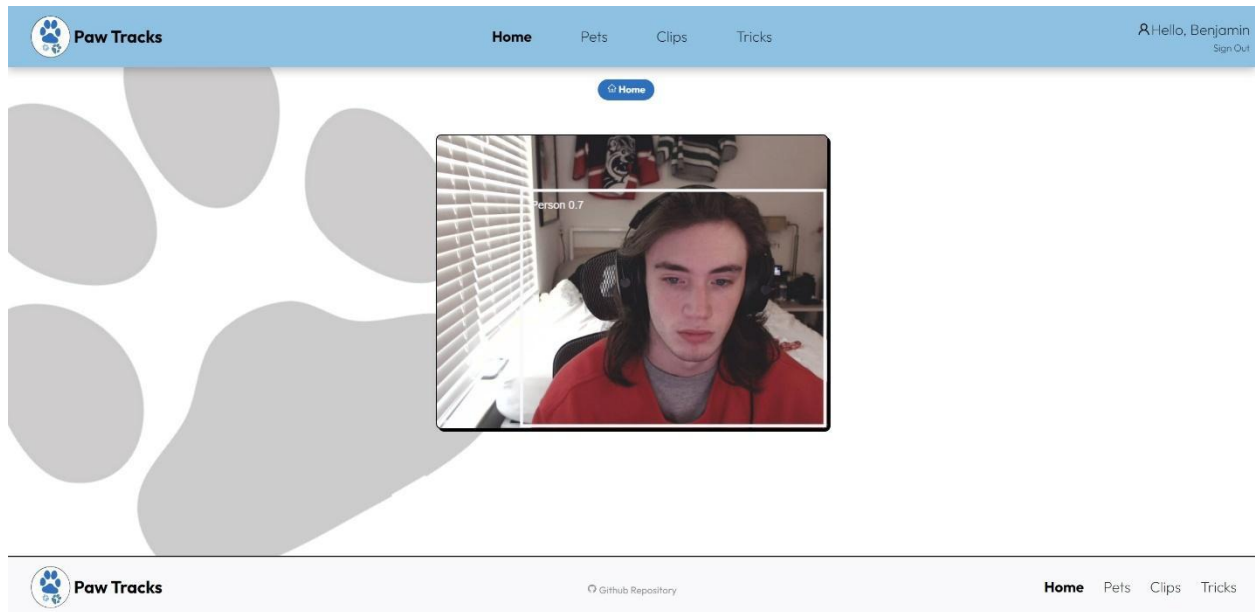


For simple testing purposes, a sample account's information is filled in in the screenshot below. The account's Username is “[user](#)”, and the password is “[Testuser1!](#)”.

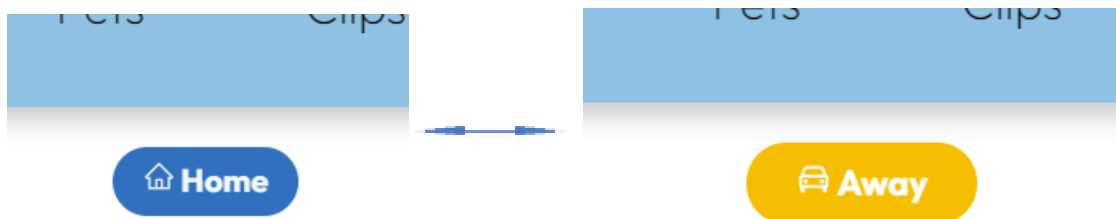


Home Page

Once a user has successfully logged into the web application, they are greeted with the [home page](#). Here, users are given a [box previewing their connected webcam](#), **once they have allowed access**, as well as a button that allows a user to toggle between [Home](#) and [Away](#) status.



To toggle between Home and Away status, users simply [click the button with the current status displayed](#).



Any events detected while set to Away status will be uploaded as a [Clip](#) once the status has returned to Home. Video upload status can be viewed at the bottom of the screen with the [Uploading video...](#) progress bar.

Uploading video...



Clips Page

To view clips, users can navigate to the [Clips](#) page. Here, clips are organized by session in an accordion menu, which can be expanded by clicking on a session.

The image displays three screenshots of the Paw Tracks application interface, specifically the Clips page.

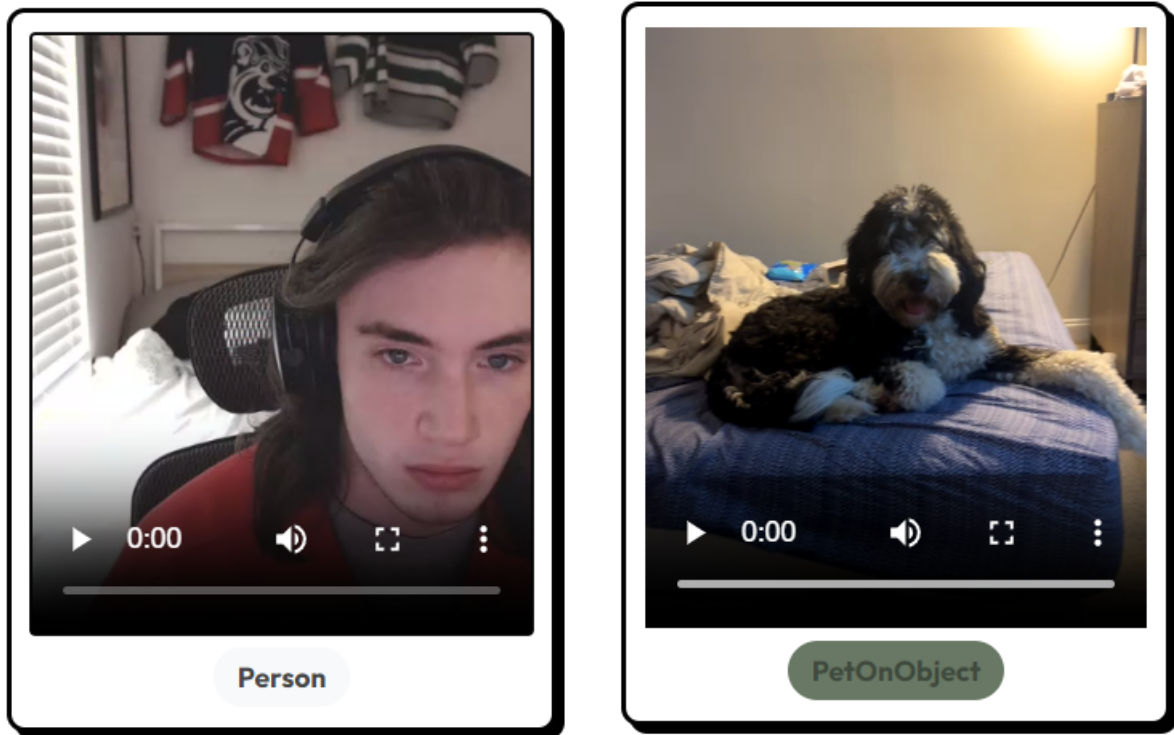
Top Screenshot: Shows the main navigation bar with the Paw Tracks logo, a user profile for Benjamin, and a menu with Home, Pets, Clips (active), and Tricks. Below the navigation bar, the page title "All Clips" is centered. An accordion menu is open, showing three sessions:

- Session #1: 5/5/2023, 4:20:51 PM - 5/5/2023, 4:21:03 PM
- Session #2: 5/3/2023, 9:33:36 PM - 5/3/2023, 9:33:51 PM
- Session #3: 5/5/2023, 4:19:26 PM - 5/5/2023, 4:19:28 PM

Middle Screenshot: Shows the same navigation bar, but the GitHub Repository link is visible in the footer. The main content area is empty, with the "All Clips" title still present.

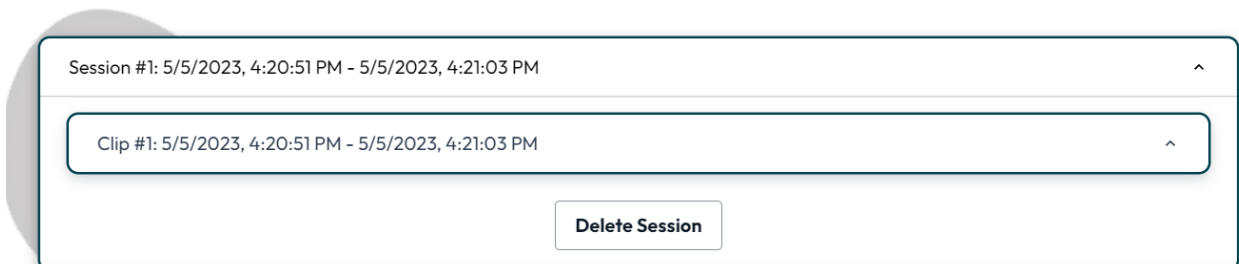
Bottom Screenshot: Shows the same navigation bar. The accordion menu is expanded, displaying the details for Session #1. It includes a video player showing a person's face, a "Delete Session" button, and the session's time range. The video player has a progress bar at 0:00 and a volume icon. The session title is "Person".

The clip boxes contain the [clip video embedded inside](#), as well as chips displaying what objects were detected during an event.



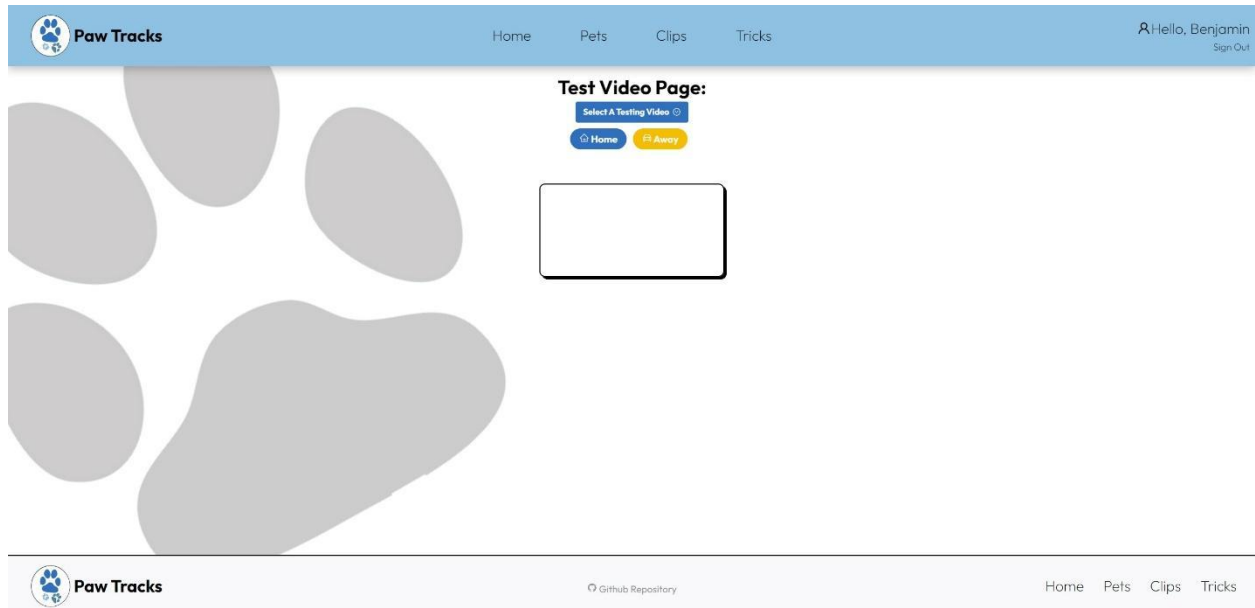
To [delete a session](#), users can click the [Delete Session](#) button at the bottom of the session accordion.

All Clips



Test Page

For sample testing, users can navigate to <https://stage.pawtracks.live/test>. Here, users can test detection with the sample videos provided.



To select a sample video, users can click on the [Select A Testing Video](#) dropdown and select one of three videos selected for testing. Test Videos will play audio when a detection starts, so you will notice the audio play many times on the cat video for example, as the person enters and leaves the frame. Test videos will NOT record clips, because clipping is based on a video stream, so it could not be used on pre recorded video. Test videos will instead be saved in full, in order to be able to test the the session backend is functioning as intended.

Test Video Page:

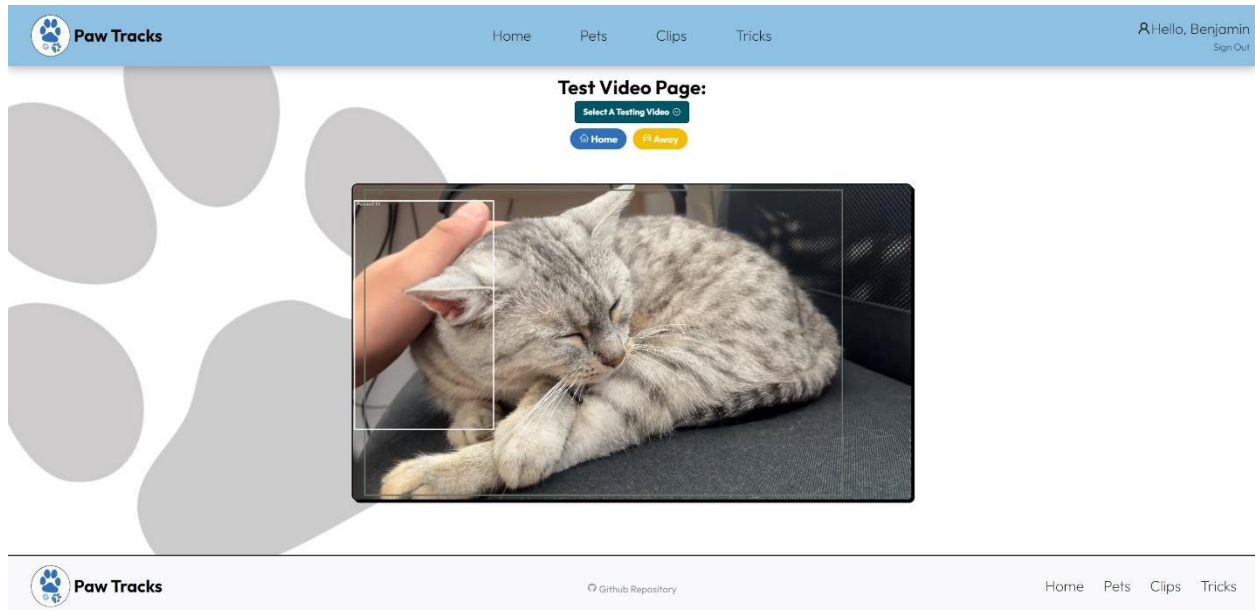
Select A Testing Video 

Video One: Person

Video Two: Dog On Bed

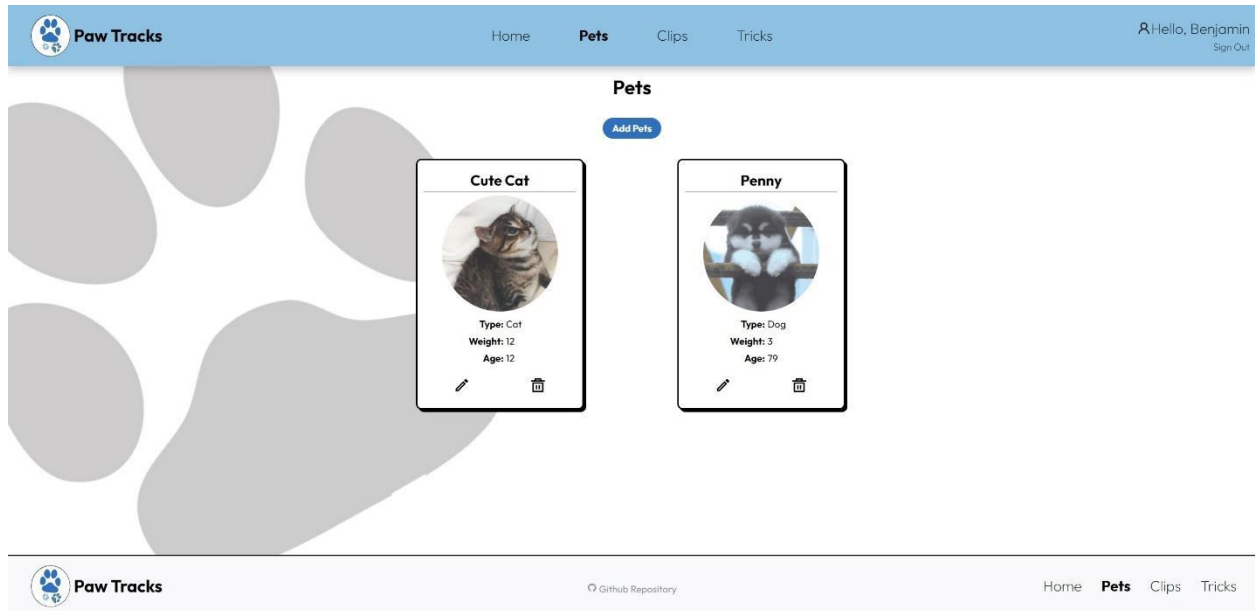
Video Three: Cat On Chair

Once a test video is selected, the test video is played with detection running on top.

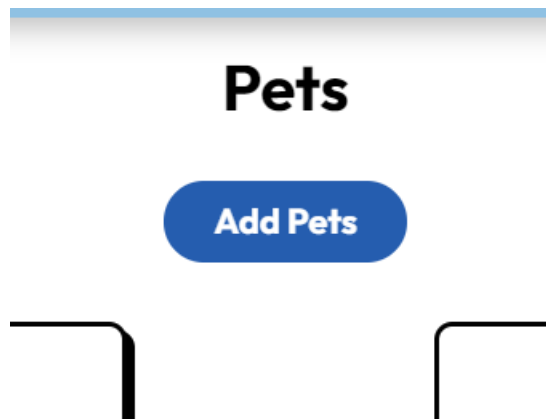


Pets Page

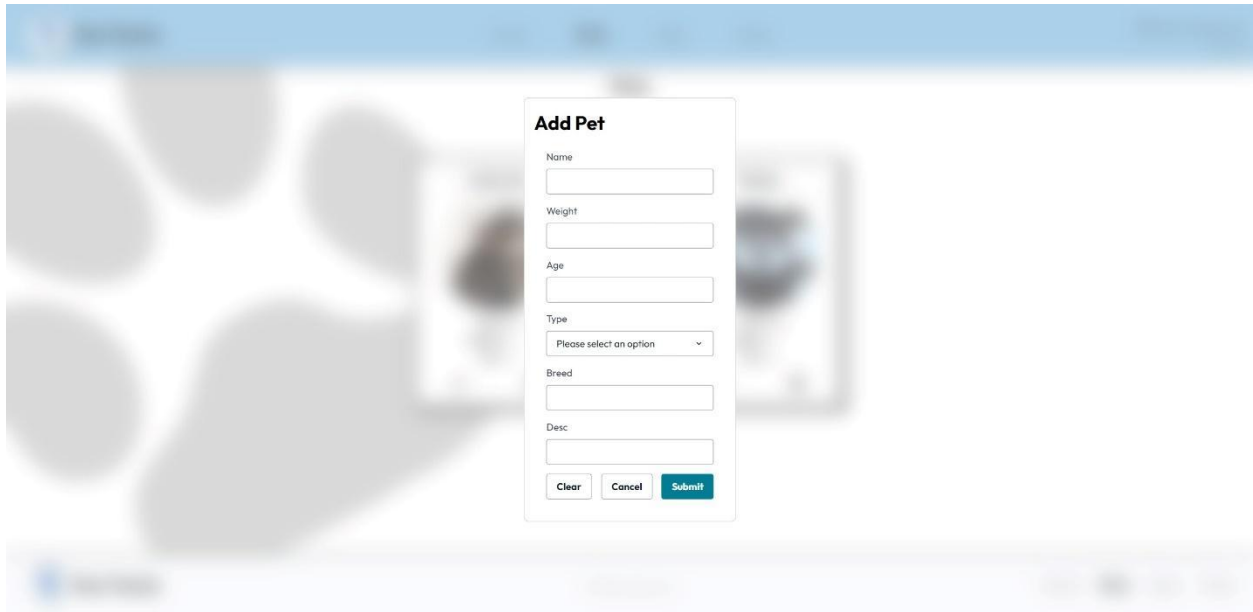
To view saved pet information, users can navigate to the [Pets](#) page. Here, users are greeted with cards displaying their currently saved pets.



To add a pet, users can click the [Add Pets](#) button at the top of the pet view.



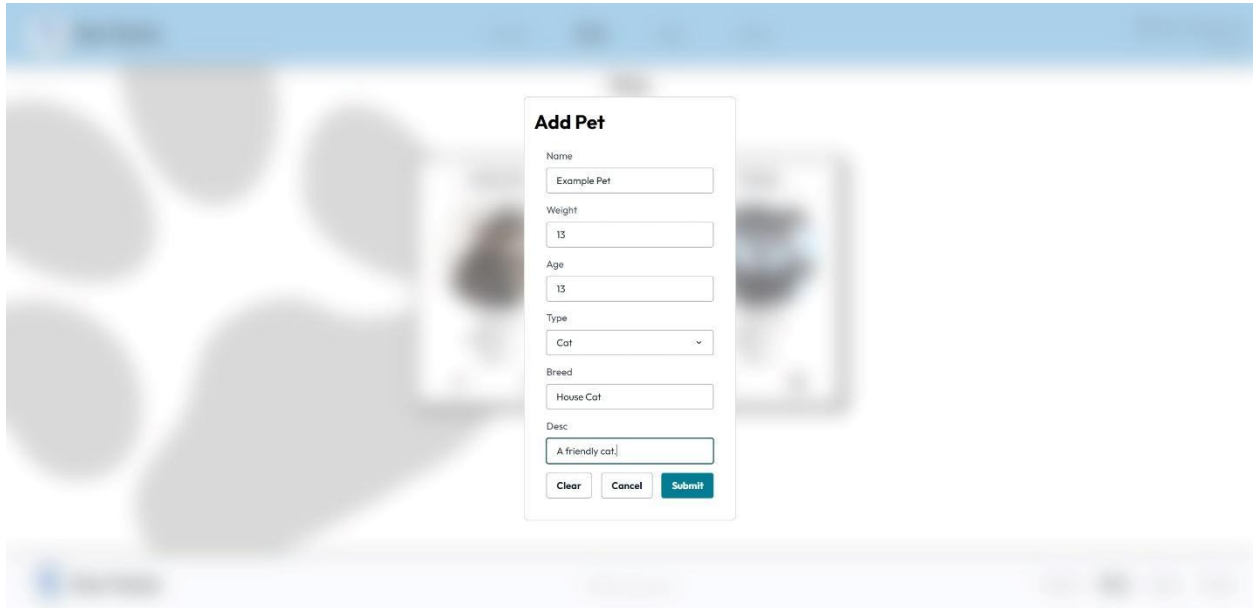
Once a user clicks on the Add Pets button, an **Add Pet** form is overlaid on the screen, allowing the user to input pet information, including **Name**, **Weight**, **Age**, **Type**, **Breed**, and **Description**.



The screenshot shows a modal form titled "Add Pet" overlaid on a blurred background of a pet gallery. The form contains the following fields and controls:

- Name:** A text input field.
- Weight:** A text input field.
- Age:** A text input field.
- Type:** A dropdown menu with the placeholder text "Please select an option".
- Breed:** A text input field.
- Desc:** A text input field.
- Buttons:** Three buttons at the bottom: "Clear", "Cancel", and "Submit".

Sample pet information is shown below.

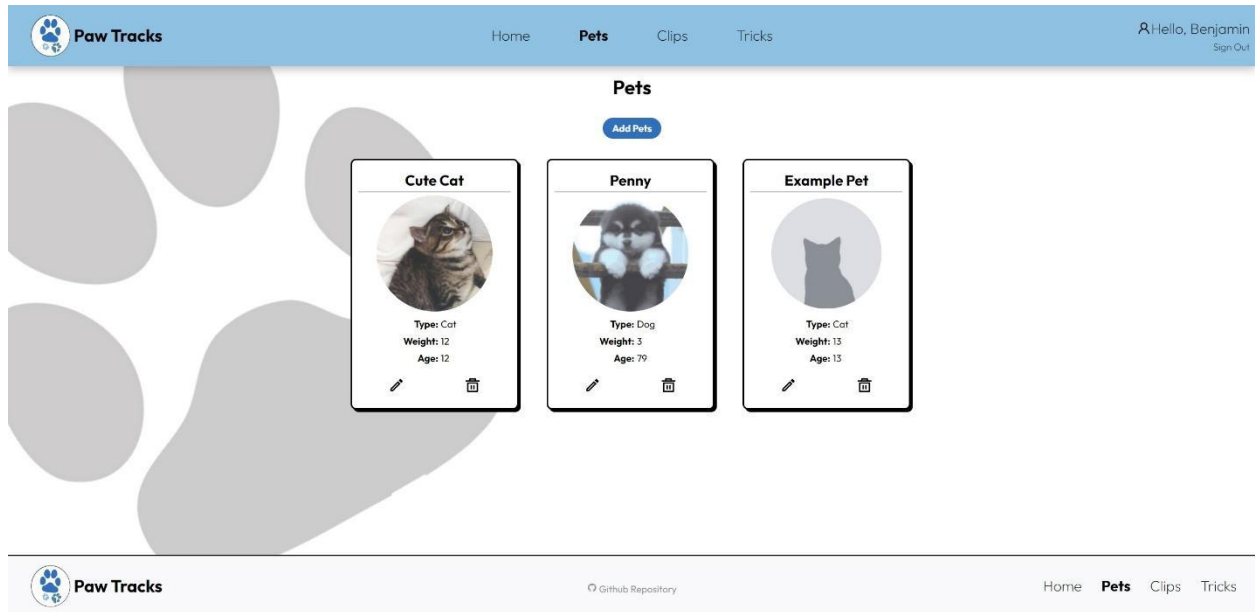


This screenshot shows the same "Add Pet" form, but with sample data entered into the fields:

- Name:** Example Pet
- Weight:** 13
- Age:** 13
- Type:** Cat
- Breed:** House Cat
- Desc:** A friendly cat

The "Clear", "Cancel", and "Submit" buttons remain at the bottom of the form.

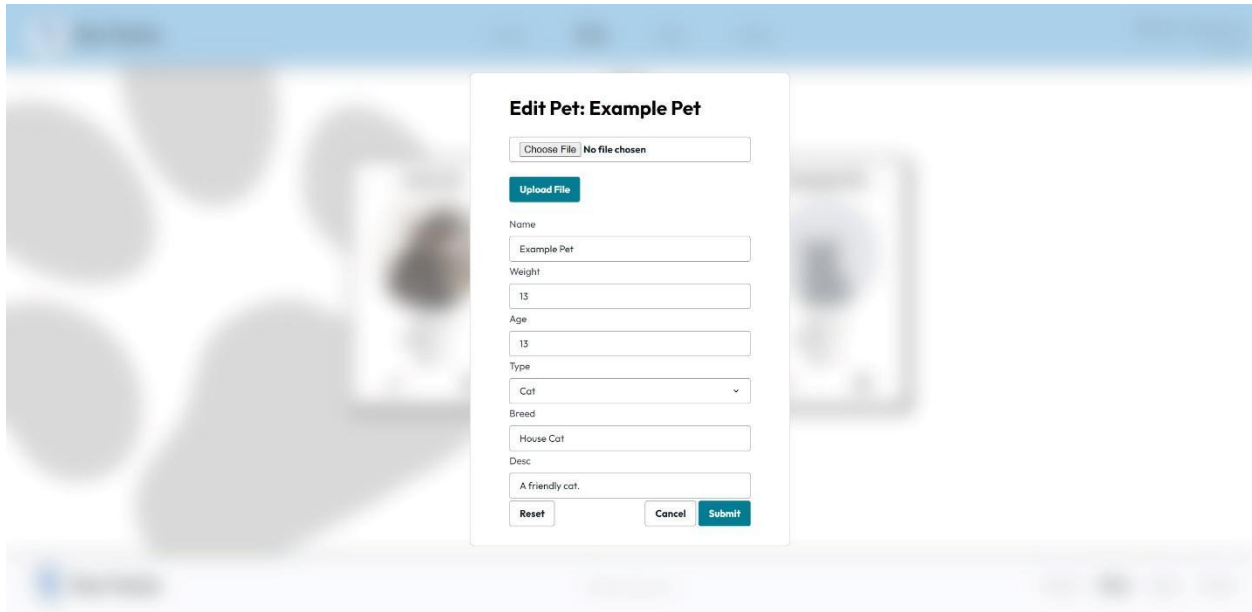
Once a user fills out the form and clicks [Submit](#), the overlay closes and the pet is added to the list of cards.



A user can also edit an existing pet's information by clicking on the [Edit](#) icon on the pet's card.



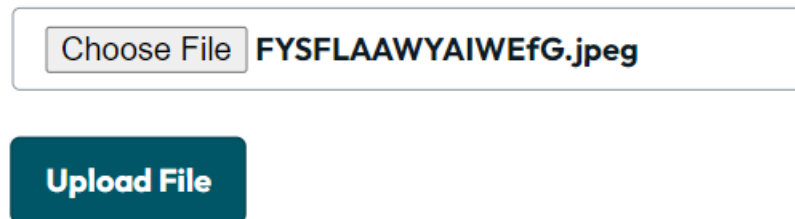
Once a user clicks on the Edit icon, the [Edit Pet](#) form is overlaid on the screen. This form is similar to the Add Pet form. In the Edit Pet form, however, users are able to [upload an image](#) of the pet by selecting an image and clicking [Upload File](#) to serve as a thumbnail.



The screenshot shows a modal form titled "Edit Pet: Example Pet" centered over a blurred background of various pet photos. The form contains the following fields and controls:

- File Selection:** A button labeled "Choose File" followed by the text "No file chosen". Below this is a teal button labeled "Upload File".
- Name:** A text input field containing "Example Pet".
- Weight:** A text input field containing "15".
- Age:** A text input field containing "15".
- Type:** A dropdown menu with "Cat" selected.
- Breed:** A text input field containing "House Cat".
- Desc:** A text input field containing "A friendly cat."
- Actions:** At the bottom, there are three buttons: "Reset", "Cancel", and "Submit".

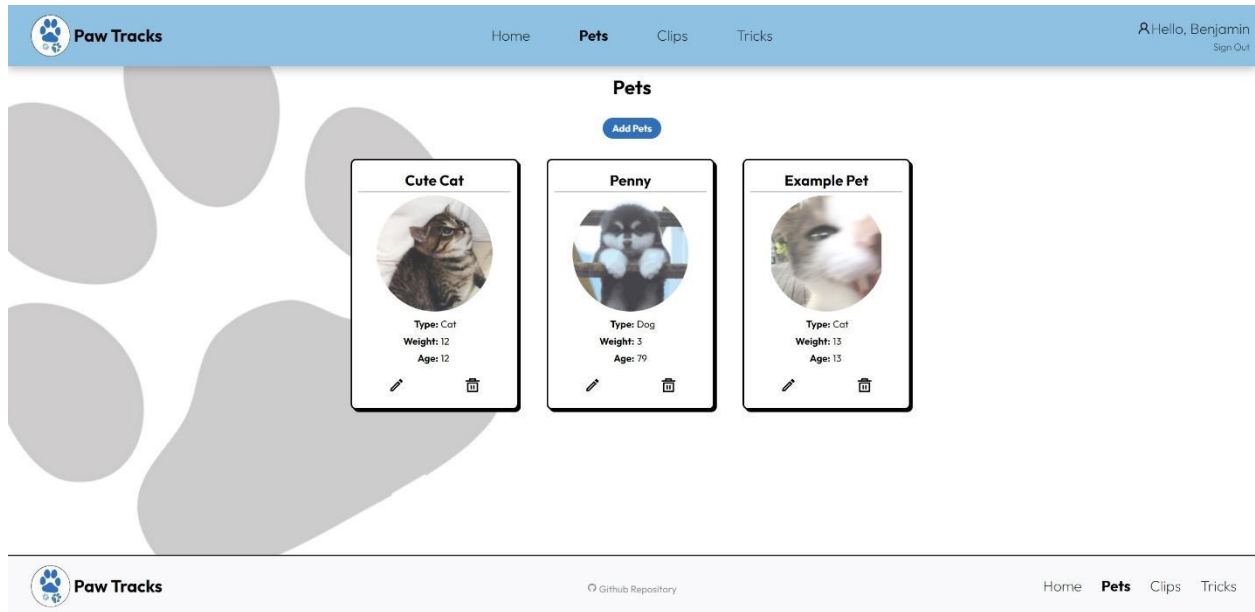
Edit Pet: Example Pet



This block provides a detailed view of the file selection and upload controls from the form above:

- File Selection:** A button labeled "Choose File" followed by the filename "FYSFLAAWYAIWEfG.jpeg".
- Upload File:** A teal button labeled "Upload File".

Once the user clicks the [Submit](#) button on the Edit Pet page, the overlay closes, and the changes are immediately updated.



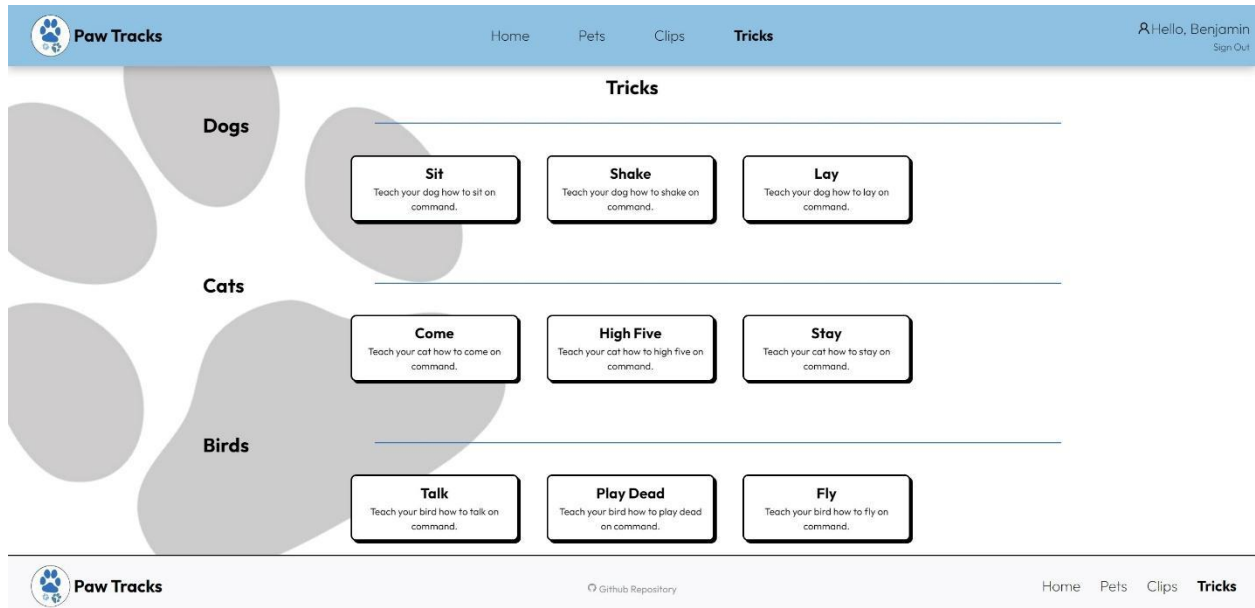
To delete pet information, users can click the Delete icon at the bottom of a pet's card.

e: 13

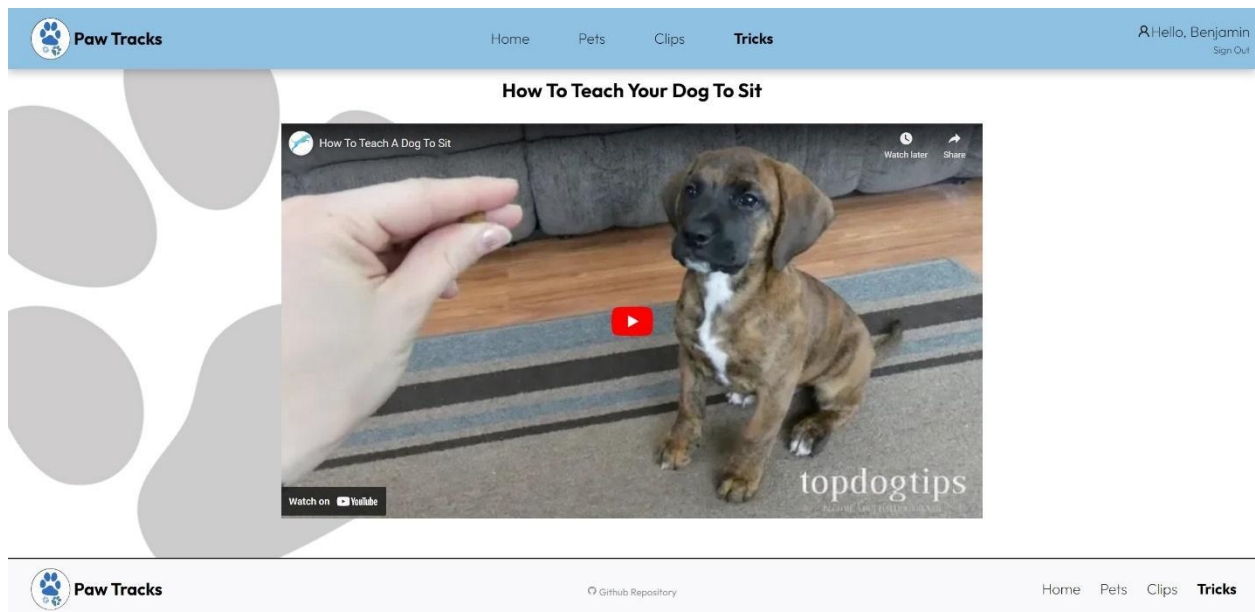


Tricks Page

The [Tricks](#) page gives users a resource to teach their pets new tricks. This information is organized in cards on a grid grouped by the type of pet the trick is designed for.

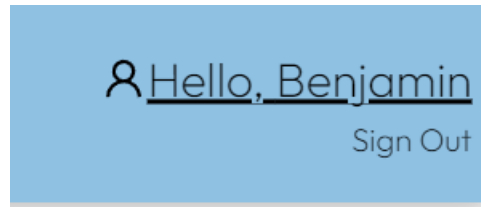


Once a user clicks on a trick, the web application navigates to a page with a video embedded to demonstrate how to teach the user's pet the trick.



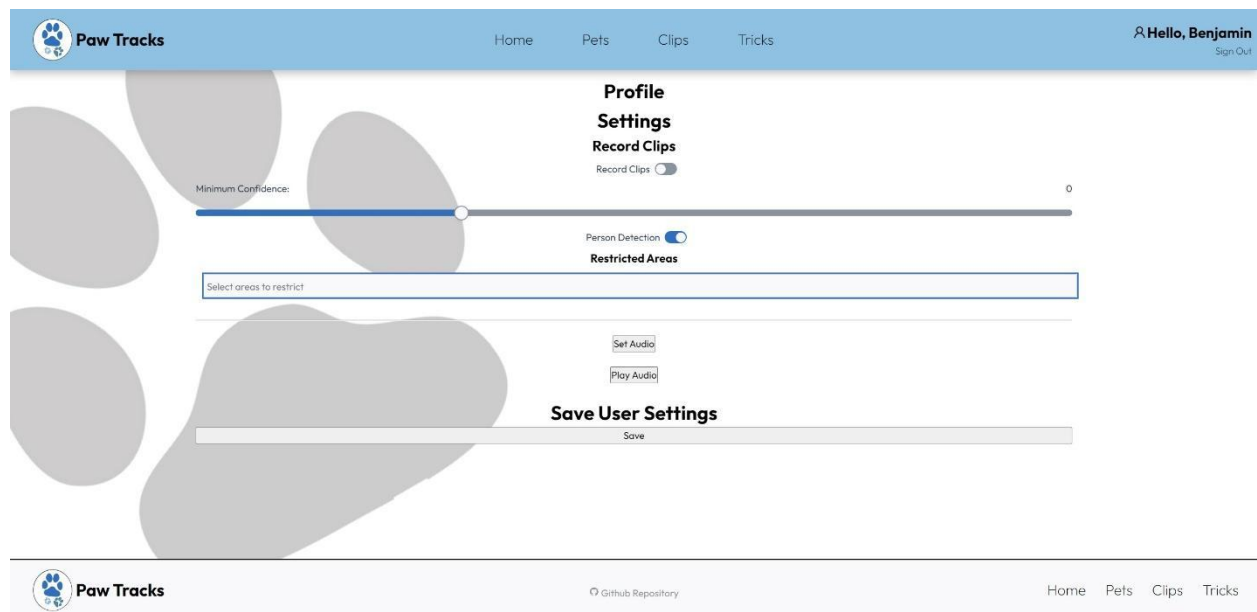
Profile and Settings

To adjust the web application's settings, users can navigate to the [Profile](#) page by clicking on the user's username at the top right of the navigation bar.

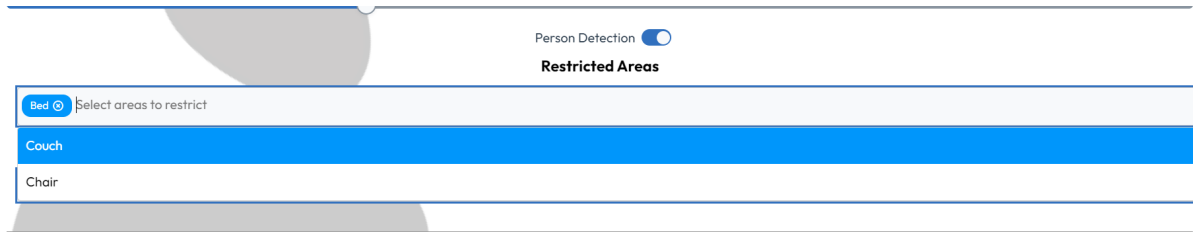


When navigating to the user's profile page, the user is given the following options:

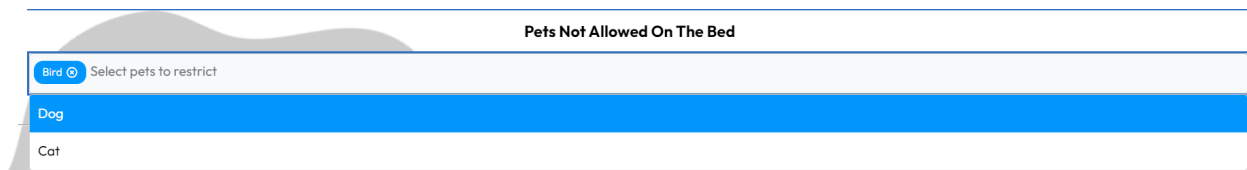
- Change toggle clip recording.
- Set the computer vision model's minimum confidence.
- Toggle person detection.
- Set restricted areas. (Not fully implemented - BenMC got very sick)
- Set which type of pets are restricted from set areas. (Not fully implemented)
- Record audio played when a pet is detected in a restricted area.

The image shows a web application interface for "Paw Tracks". At the top is a blue navigation bar with the Paw Tracks logo on the left and links for "Home", "Pets", "Clips", and "Tricks" in the center. On the right of the bar, it says "Hello, Benjamin" with a "Sign Out" link below it. The main content area has a light blue background with large, faint paw prints. It features a settings form with the following elements: a "Profile Settings" header, a "Record Clips" section with a toggle switch currently turned off, a "Minimum Confidence" slider set to 0, a "Person Detection" toggle switch currently turned on, a "Restricted Areas" section with a text input field labeled "Select areas to restrict", and a "Save User Settings" section with a "Set Audio" button, a "Play Audio" button, and a "Save" button. At the bottom is a light blue footer bar with the Paw Tracks logo on the left, a "GitHub Repository" link in the center, and the same navigation links ("Home", "Pets", "Clips", "Tricks") on the right.

The [Restricted Areas](#) option allows users to enable or disable multiple preset areas.



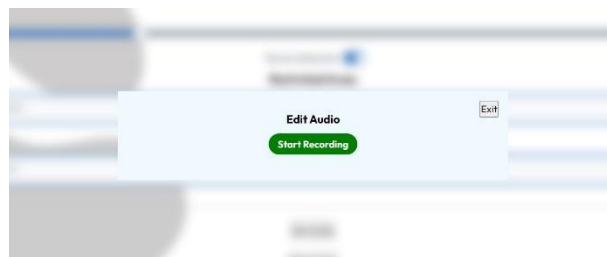
If there are any restricted areas enabled, users are given the [Pets Not Allowed In The Area](#) option, allowing users to define which types of animals are restricted from the defined areas enabled in the Restricted Areas option.



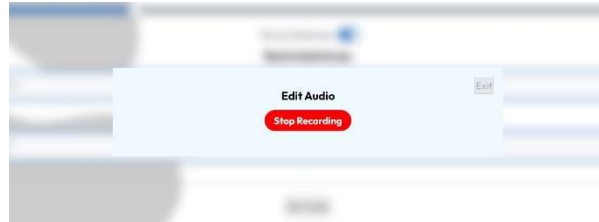
To set the audio played by the web application, users can click the [Set Audio](#) button.



When a user clicks the Set Audio button, an overlay is shown on the screen with a [Start Recording](#) button.



Once a user clicks the Start Recording button, the button will change to Stop Recording, and the web application will record audio from the user's microphone. Once the user is finished with their recording, the user can click the [Stop Recording](#) button and the overlay will close. The audio recorded is saved to the user.

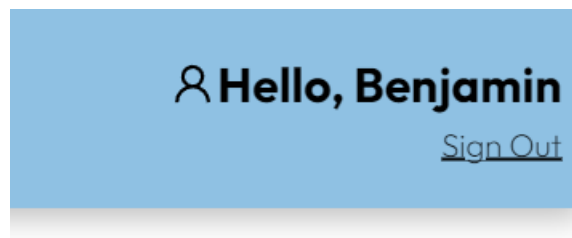


Once the user is finished adjusting their settings, they can click the [Save](#) button at the bottom of the Profile page.

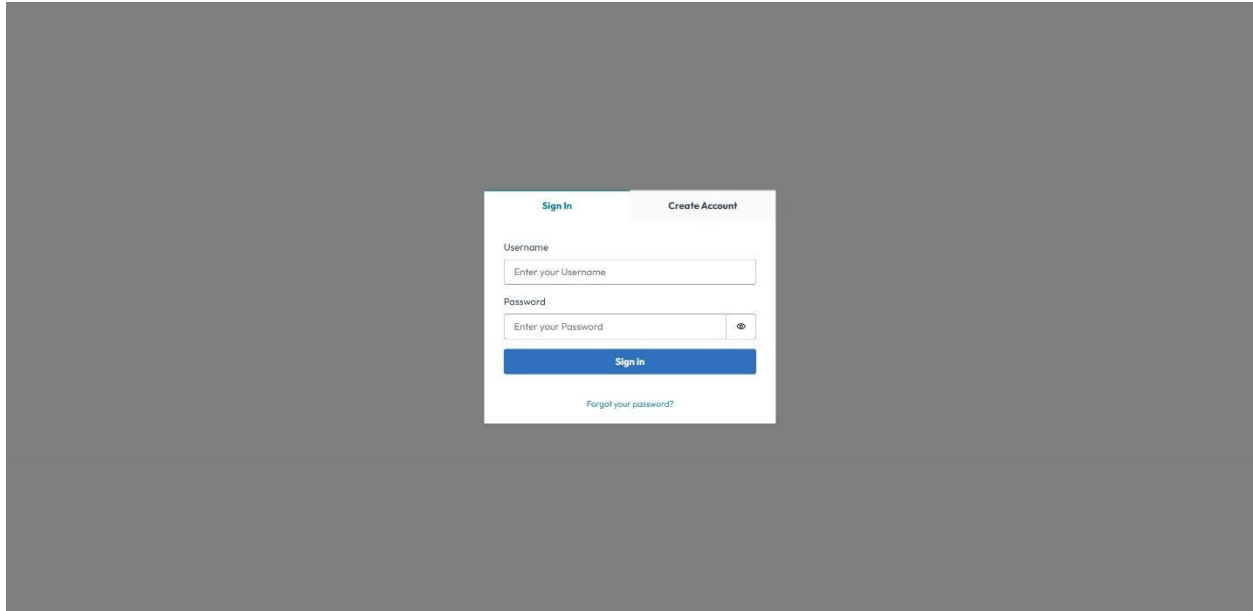


Signing Out

To [sign out](#), users can click the [Sign Out](#) button below the user's username.



When a user signs out, they are redirected to the landing page containing the Log In and Create Account forms.

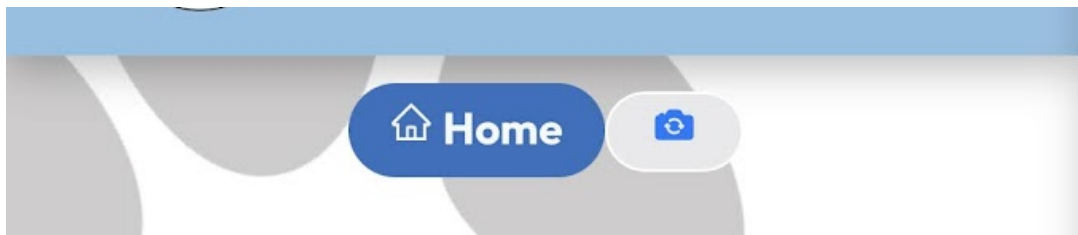


Mobile

Our application also supports mobile browsers, with some limitations.

1. Videos recorded on a pc **will not be** playable on ios, but videos recorded with your ios device **will be** viewable from the clips page
2. The clips page has major issues with scaling that we could not resolve in time for the final submission

We do have one additional feature, that is exclusive to mobile devices, that being the option to flip your camera from front to back on an IOS devices by using the **camera** button next to the home button



We did our development using IOS devices, and have no access to testing on android, so there may be additional issues when using an android device, for example the camera flip feature does not work in our very limited testing on android.