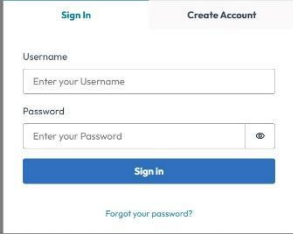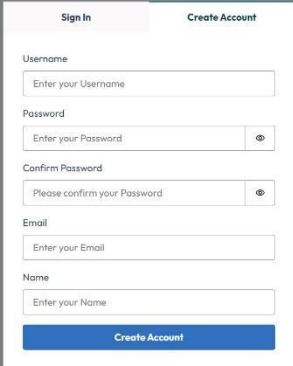# PawTracks User Guide

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.

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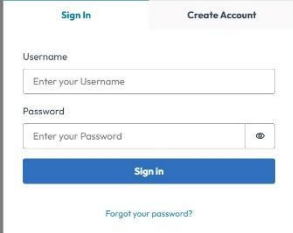
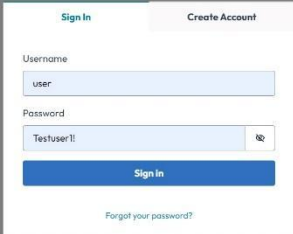Once users complete the form, they will need to check their email for a confirmation link to finalize account creation and gain access to the web application.

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.
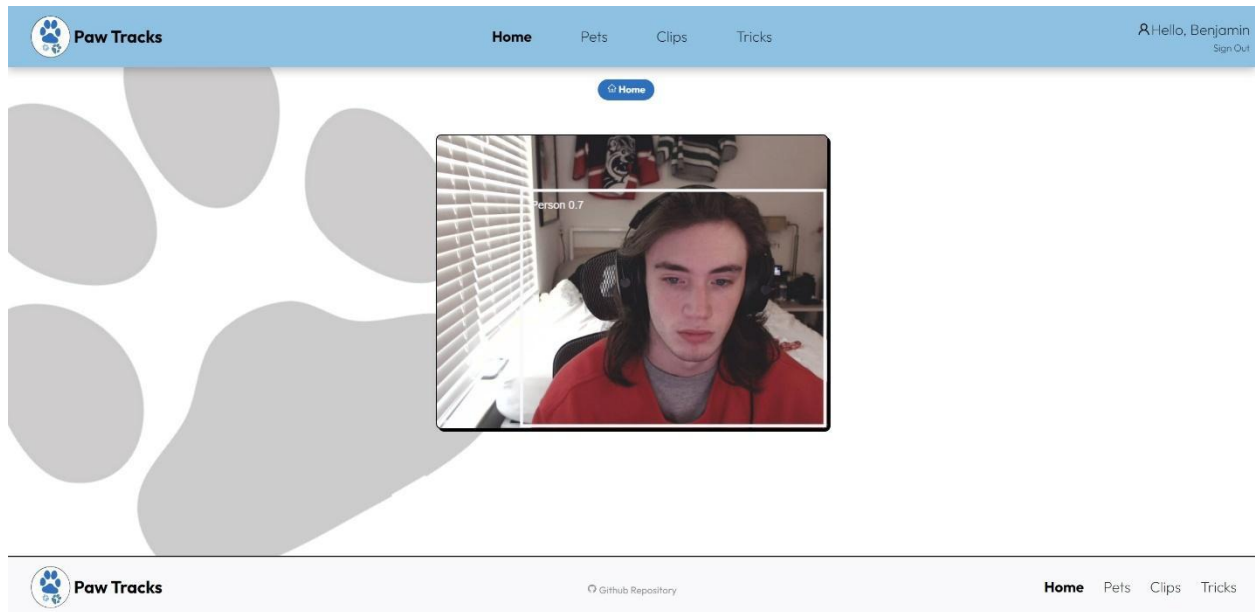
To toggle between Home and Away status, users simply click the button with the current status displayed.
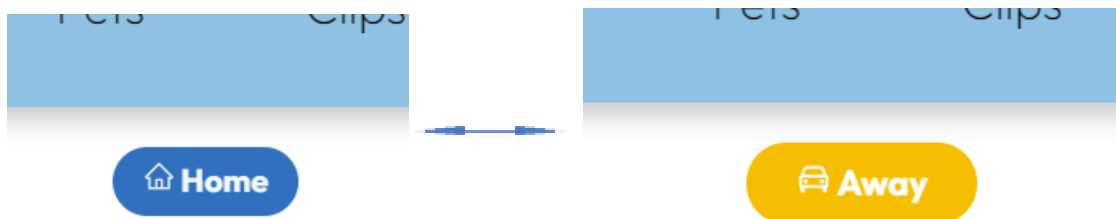
Any events detected while set to Away status will be uploaded as a Clip once the status has returned to Home. Video upload status can be viewed at the bottom of the screen with the Uploading video... progress bar.

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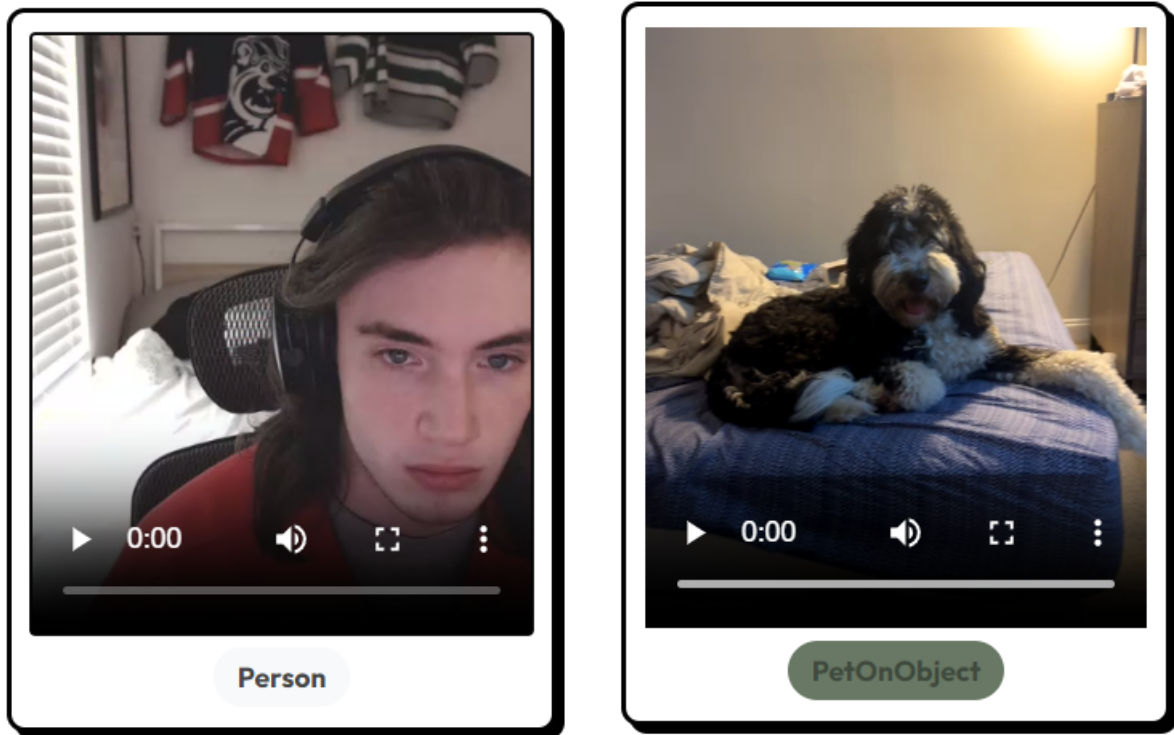
The clip boxes contain the clip video embedded inside, as well as chips displaying what objects were detected during an event.

To delete a session, users can click the Delete Session button at the bottom of the session accordion.

All Clips
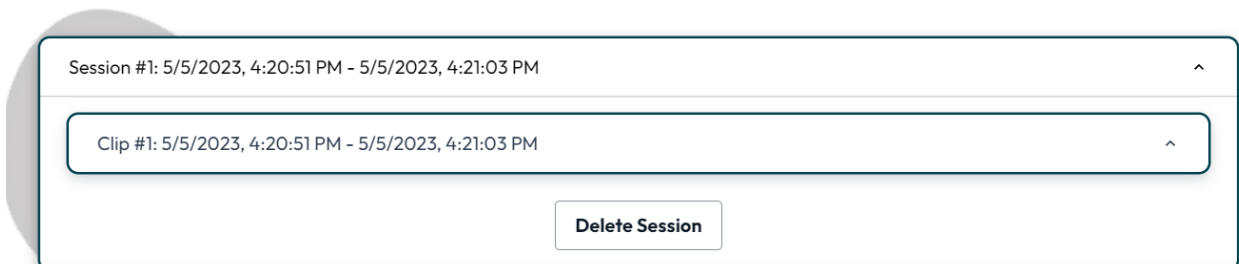
Test Page

For sample testing, users can navigate to https://stage.pawtracks.live/test. Here, users can test detection with the sample videos provided.
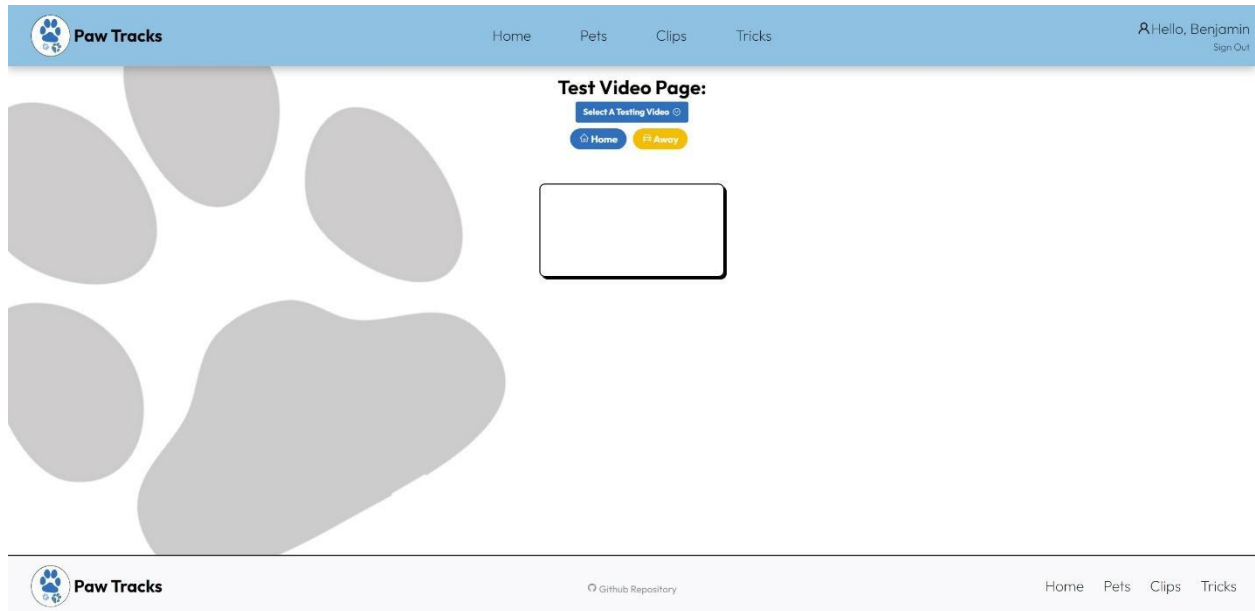
To select a sample video, users can click on the Select A Testing Video dropdown and select one of three videos selected for testing.

Test 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

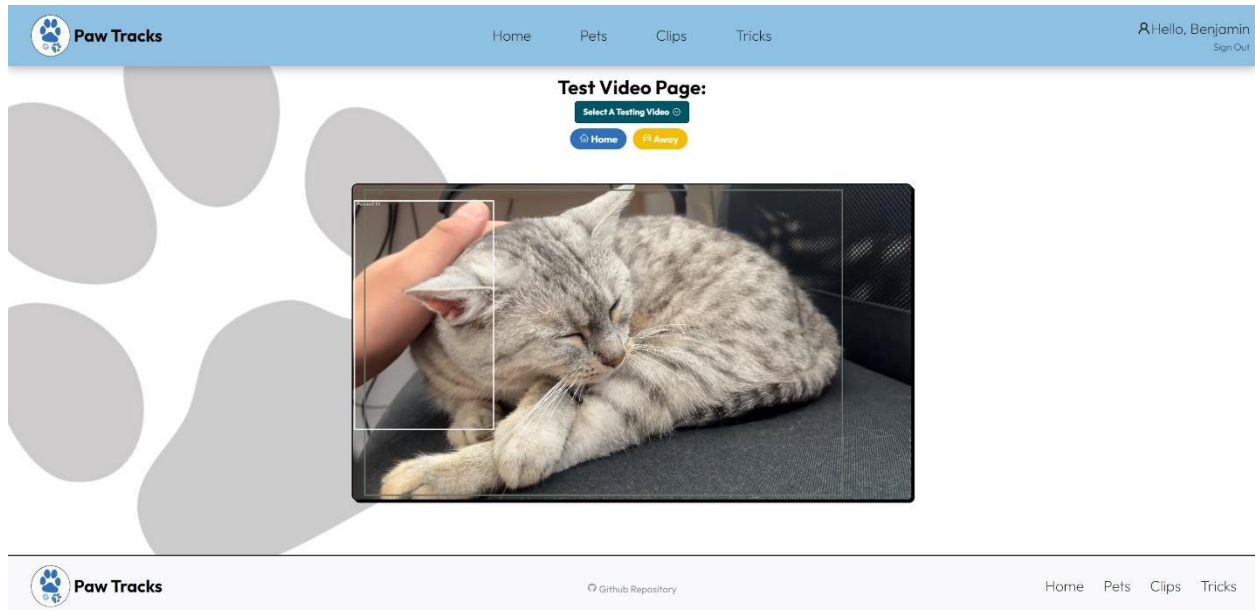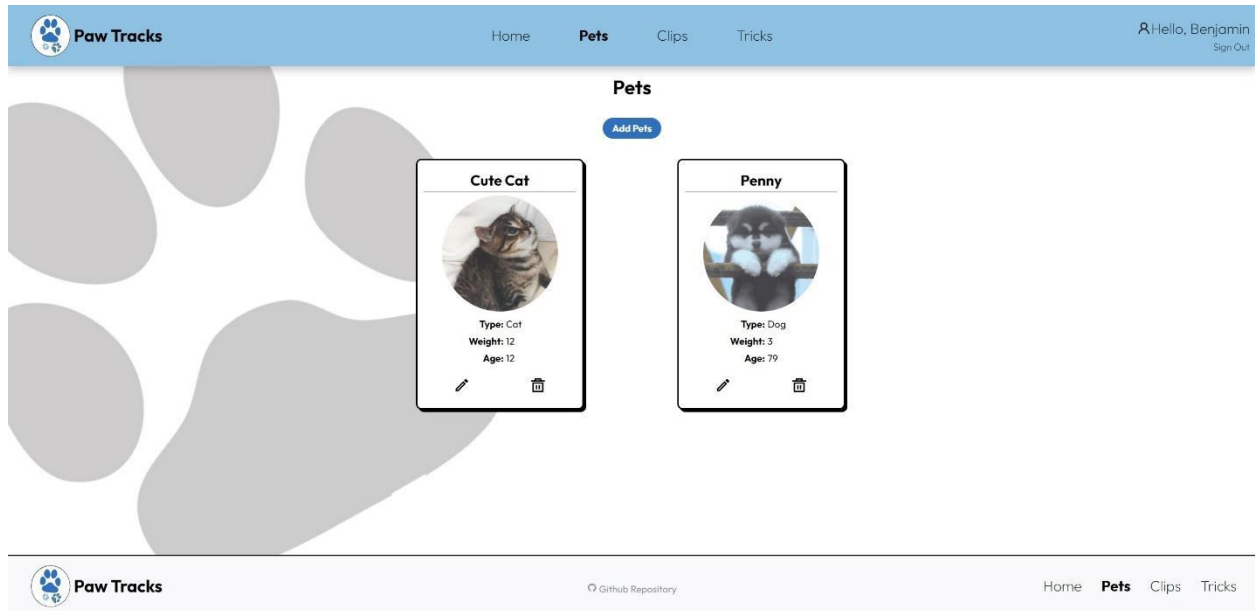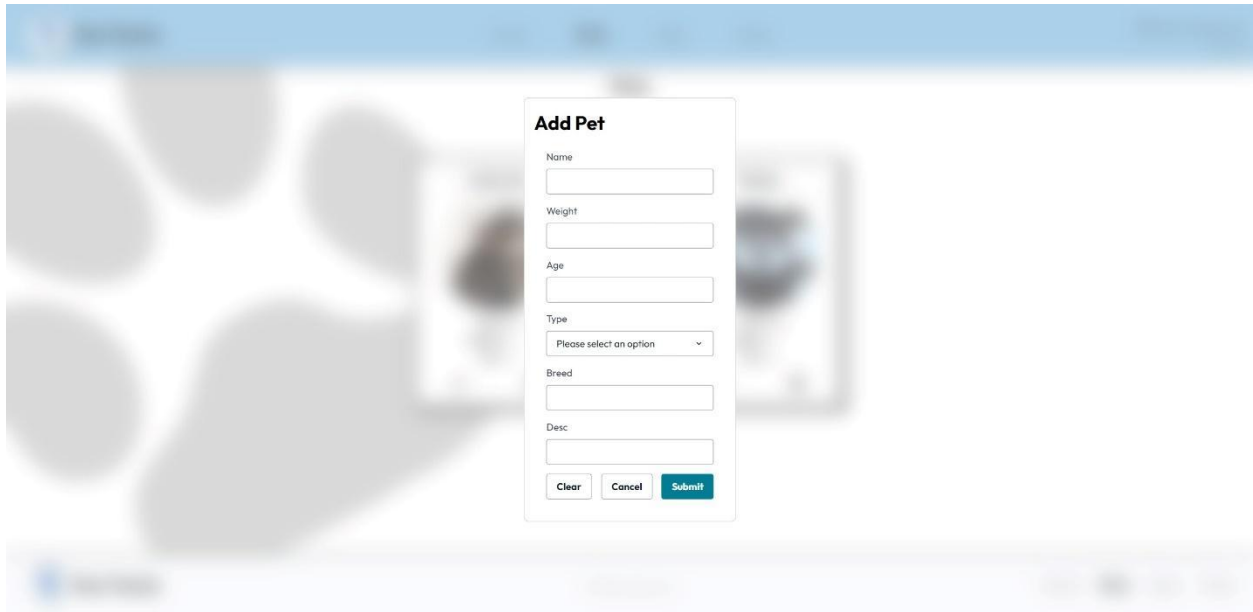To view saved pet information, users can navigate to the Pets page. Here, users are greeted with cards displaying their currently saved pets.

To add a pet, users can click the Add Pets button at the top of the pet view.

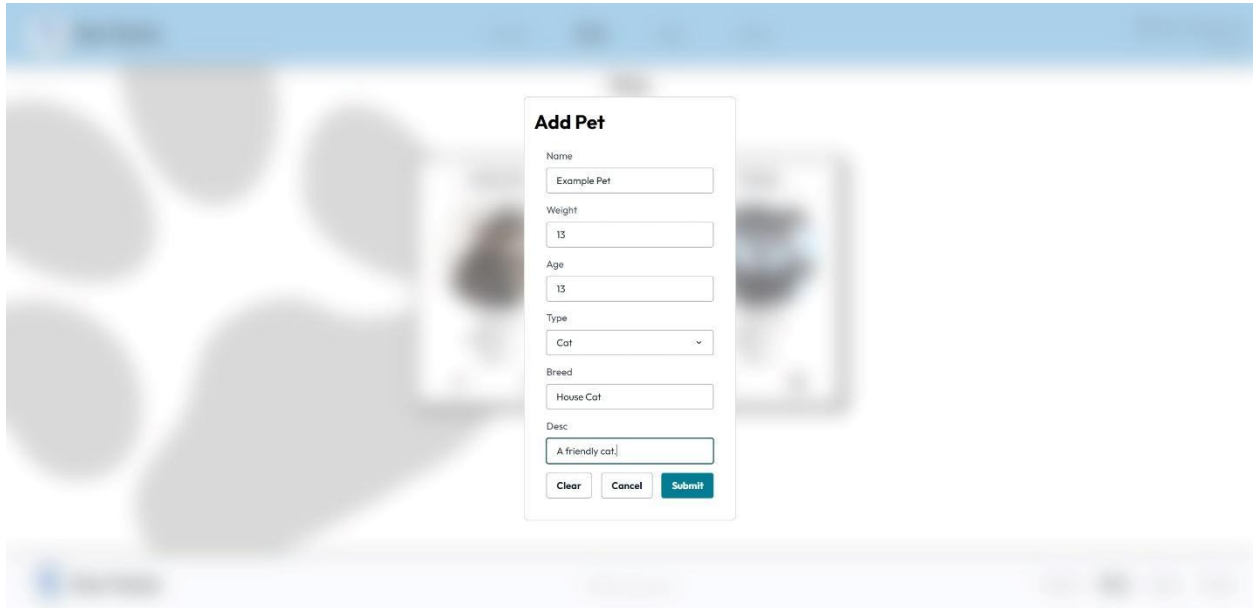Once a user clicks on the Add Pets button, an Add Pet form is overlayed on the screen, allowing the user to input pet information, including Name, Weight, Age, Type, Breed, and Description.

Sample pet information is shown below.
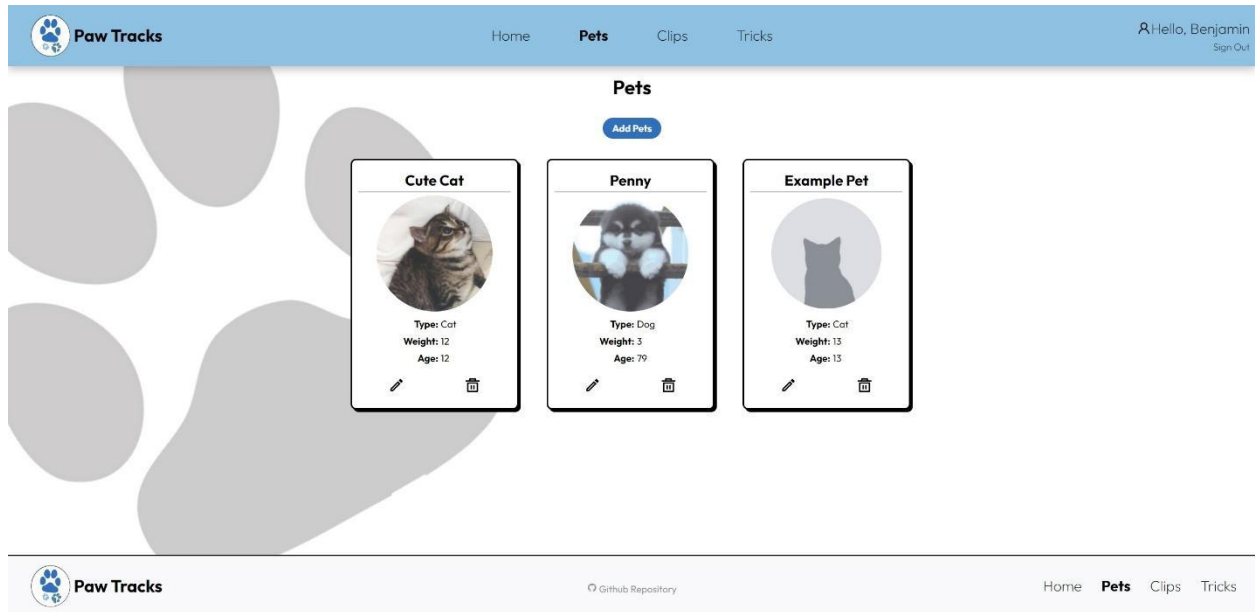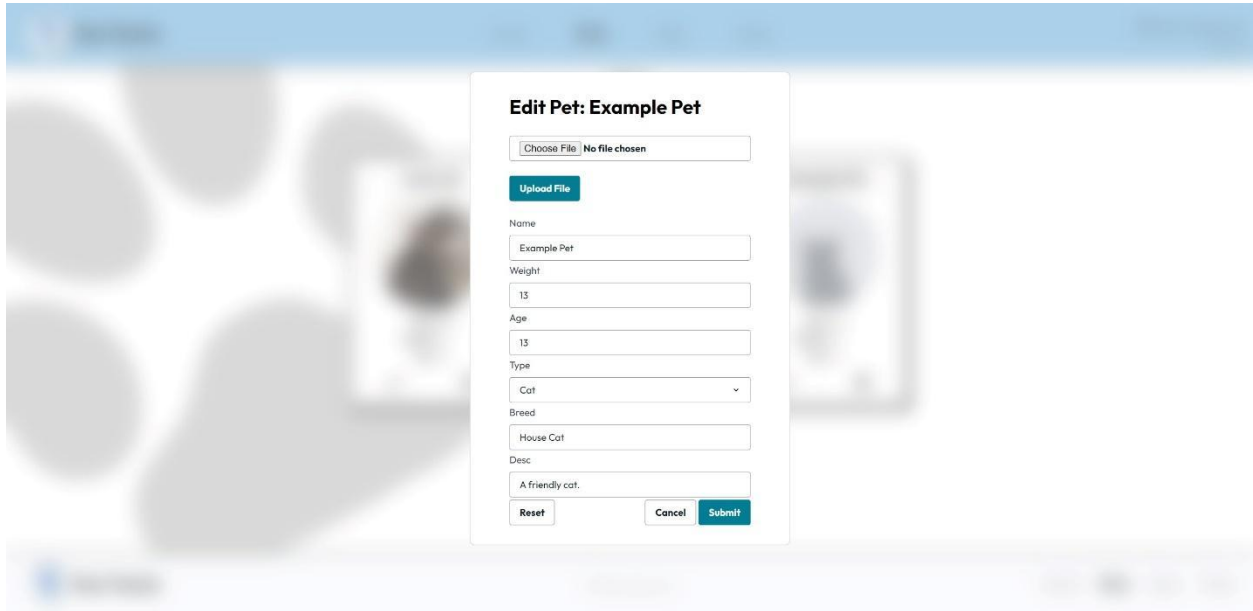
Once a user fills out the form and clicks Submit, the overlay closes and the pet is added to the list of cards.

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 overlayed 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.

Once the user clicks the Submit button on the Edit Pet page, the overlay closes, and the changes are immediately updated.
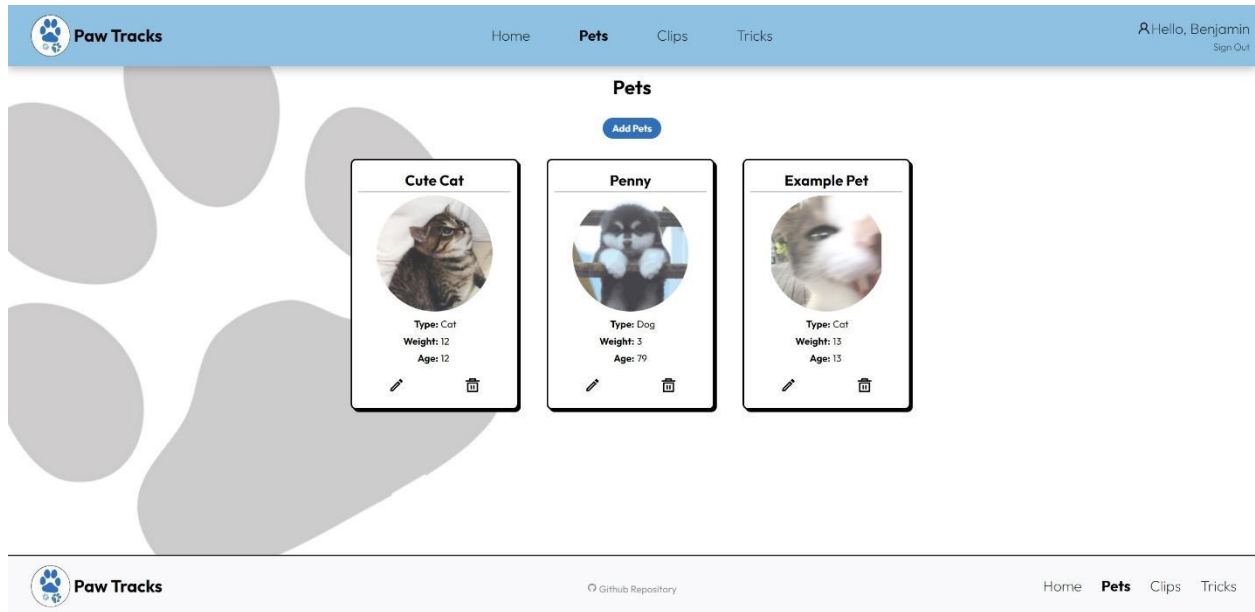
To delete pet information, users can click the Delete icon at the bottom of a pet's card.

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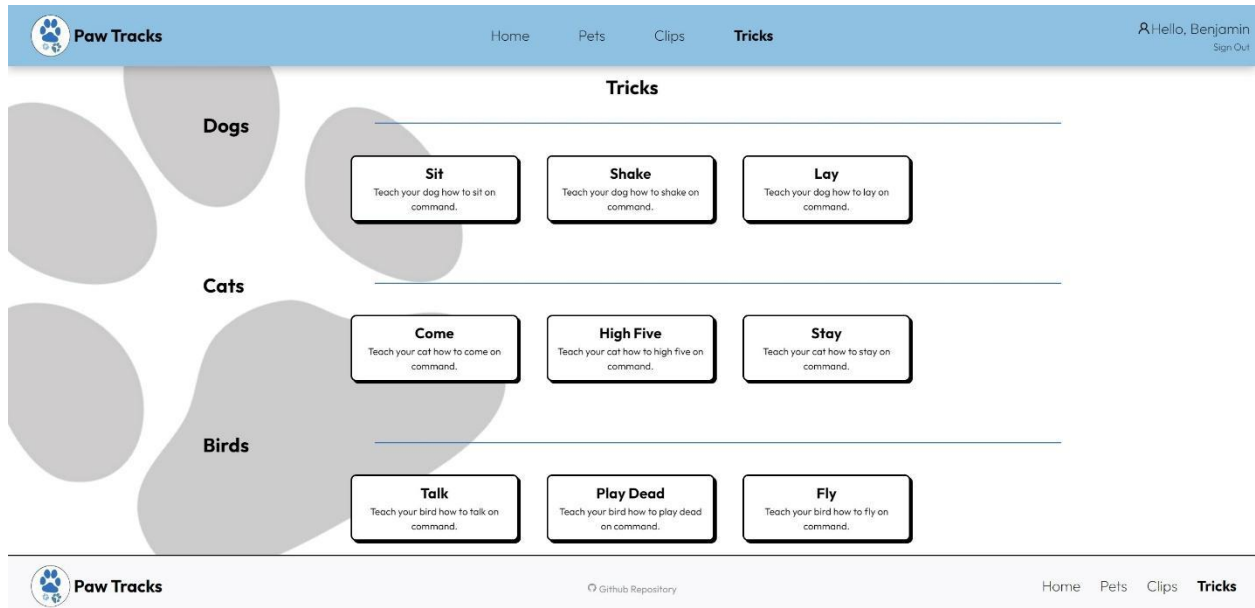
Once a user clicks on a trick, the web application navigates to a page with a video embedded to demonstrate how to teach the user's pet the trick.

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.

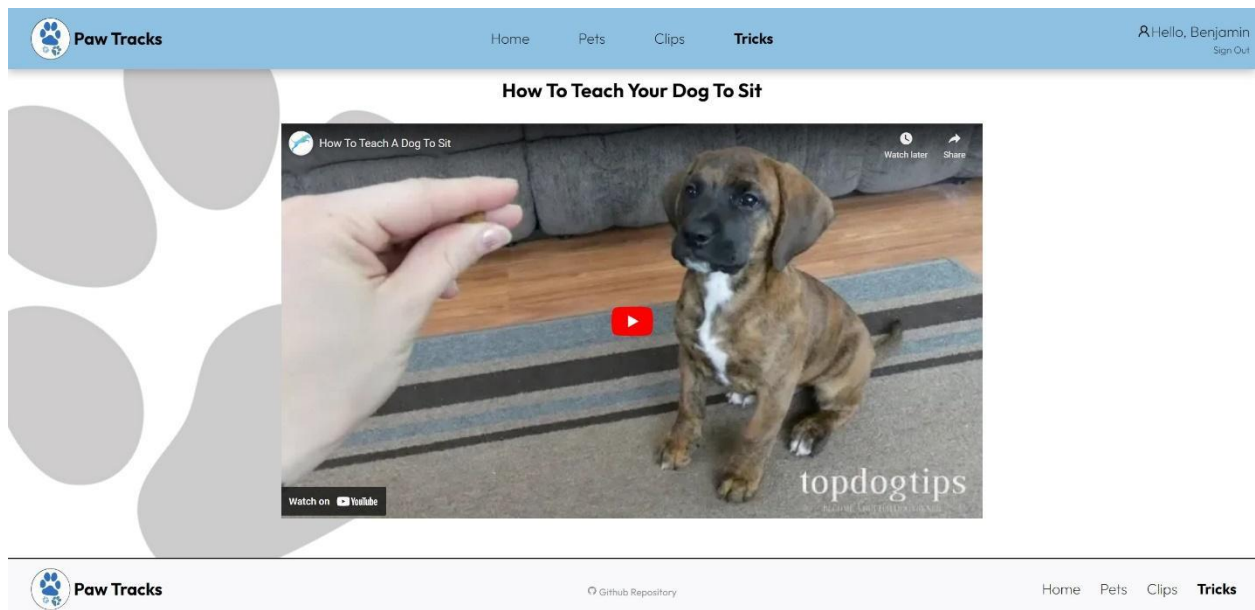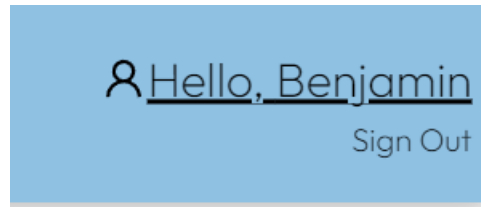When navigating to the user's profile page, the user is given the following options:

- Change toggle clip recording.
- Set the computer vision model's minimum confidence. (Not fully implemented – BenMC got very sick)
- 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– BenMC got very sick)
- Record audio played when a pet is detected in a restricted area.
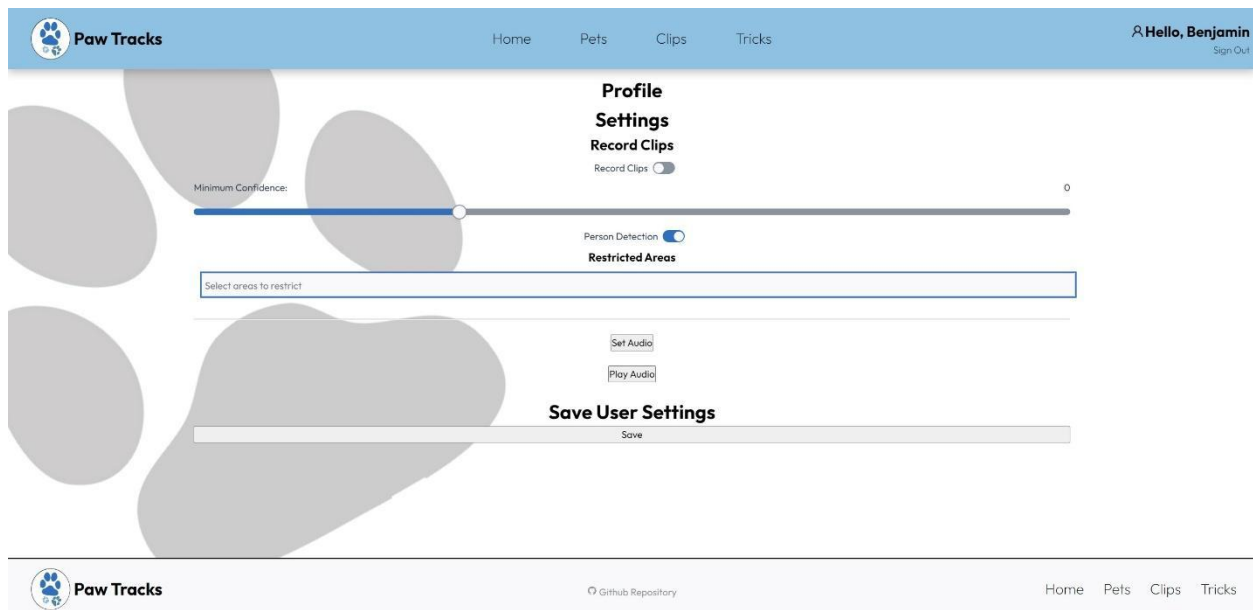
The Restricted Areas option allows users to enable or disable multiple preset areas.
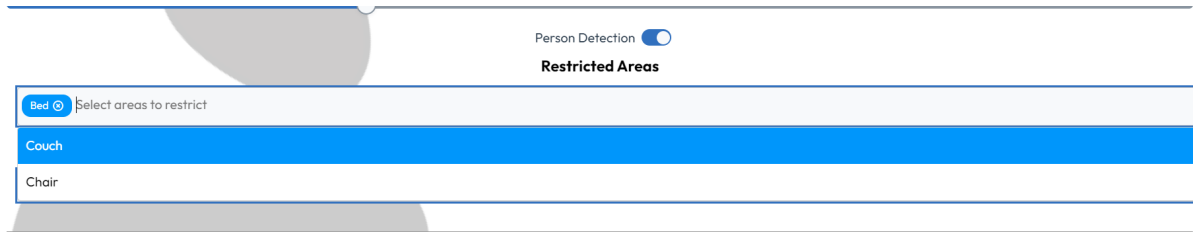
If there are any restricted areas enabled, users are given the Pets Not Allowed In The Area option, allowing users to define which types of animals are restricted from the defined areas enabled in the Restricted Areas option.

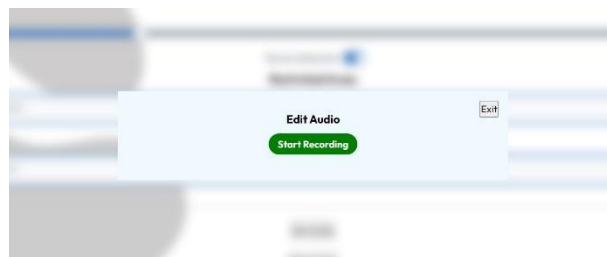To set the audio played by the web application, users can click the Set Audio button.

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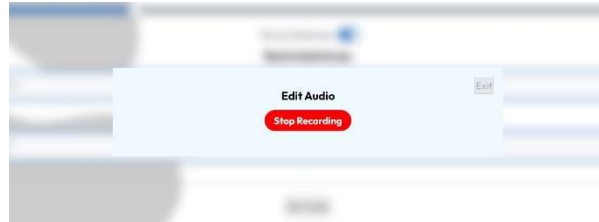
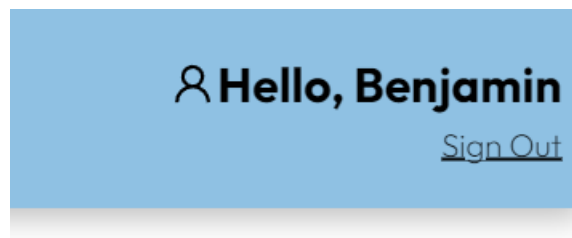Once the user is finished adjusting their settings, they can click the Save button at the bottom of the Profile page.
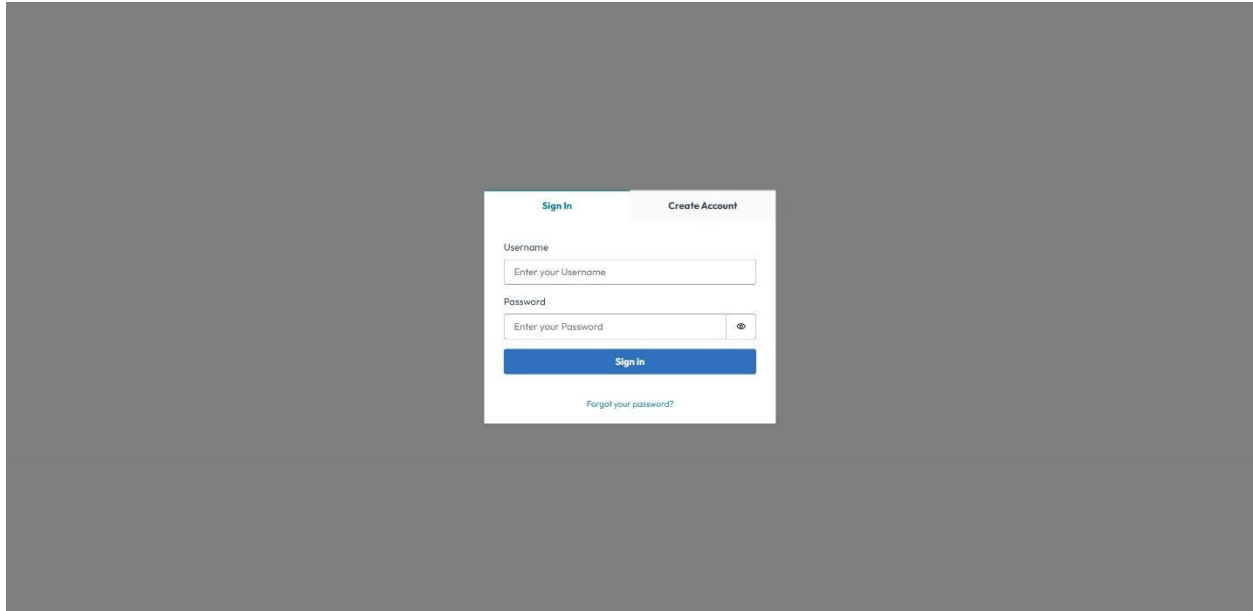

Signing Out

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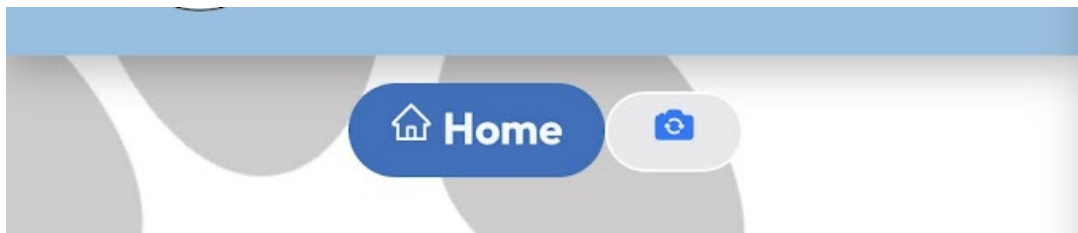
We did our development using IOS devices, and have no access to testing on android, so there may be additional issues when using an android device, for example the camera flip feature does not work in our very limited testing on android.