

# **USER MANUAL**

*Animal Behaviour Tool*  
*Full Edition*

**CS4820 UPEI School of Mathematics and  
Computational Sciences**

April 2021

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## **1.0 GENERAL INFORMATION**

### **1.1 System Overview**

In partnership with the Atlantic Veterinary College, Dr. William Montelpare and his team presented us with the task of developing an educational video hosting platform that is both user-friendly and easy to navigate. The videos will contain footage of equines displaying a variety of behaviours that must be identified by the user in quiz format. The goal of the Animal Behavior Tool is to improve equine welfare and enhance Veterinary Students' knowledge of Animal Behavior. By working through the proposed self-directed learning module, students may improve their awareness and understanding of equine behaviors within various environments. The system provides performance scores such as number of correct behaviors identified, number of trials and time taken on task.

### **1.2 Authorized Use Permission**

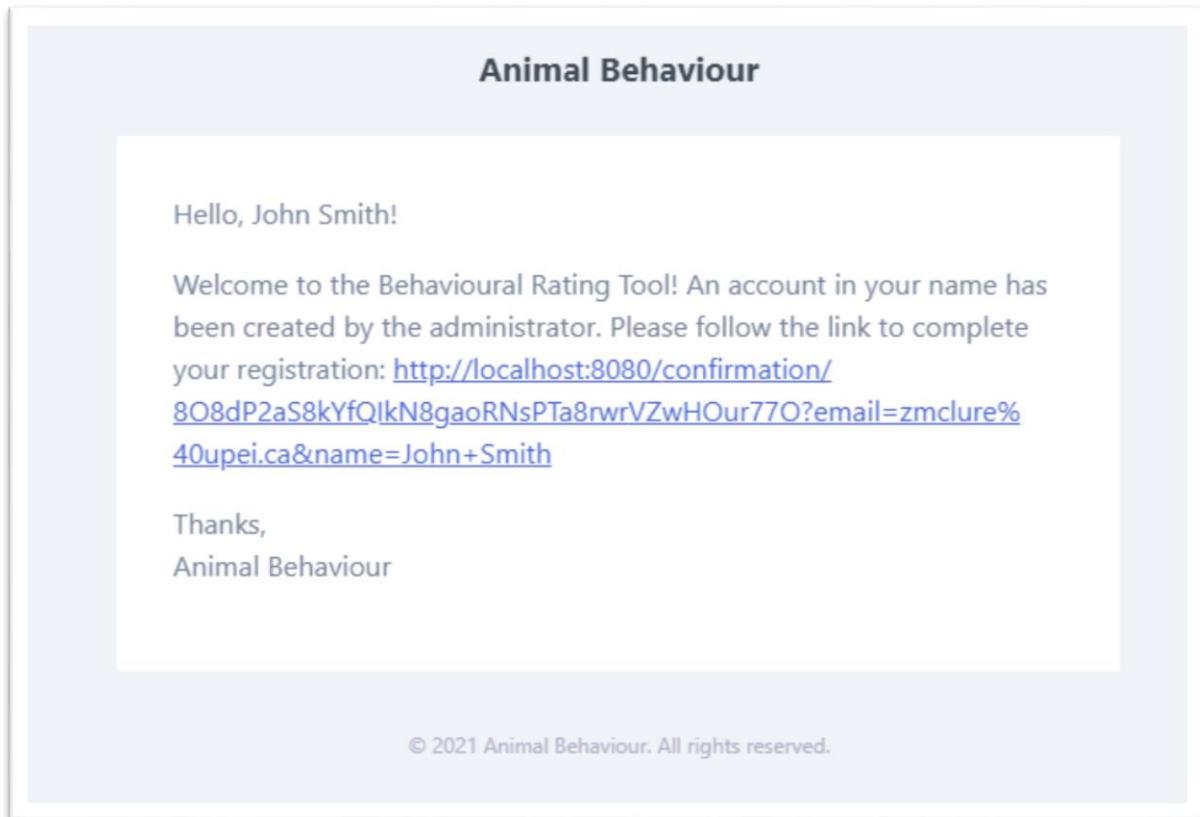
The Animal Behaviour Tool is available to those granted access by the system's administrator. Users will require a registered account and password to be able to access the application. There are four different types of accounts a user may be assigned as: admin, teacher assistant, expert, or student. These roles affect the permissions of the account, and the tasks it will be able to perform.

## 2.0 SYSTEM FEATURES

### 2.1 Registration

Permitted Roles: All

Your account information must be provided to you via email from the website's administrator. In your school email, check for the following email, then follow the provided link:



You will be taken to a web page where you may create the password you wish to use for the application. You must also fill in a mini survey, indicating your anticipated graduation year, as well as previous experience with horses.

The screenshot shows a web page titled "Animal Behaviour" with a header bar. Below the header, a section titled "Activate Your Account" contains fields for "Password" and "Confirm Password". A dropdown menu labeled "Select your anticipated grad year" is shown. Below these, a question asks "Please indicate how much previous experience you have with horses" followed by five radio button options: "None", "Beginner", "Intermediate", "Advanced", and "Expert". A blue "Create Account" button is at the bottom.

### 2.1.1 Successful Registration

You will be taken to the quizzes page.

The screenshot shows a web page with a header bar. Below the header, a message states "You are currently logged in as a student: John Smith".

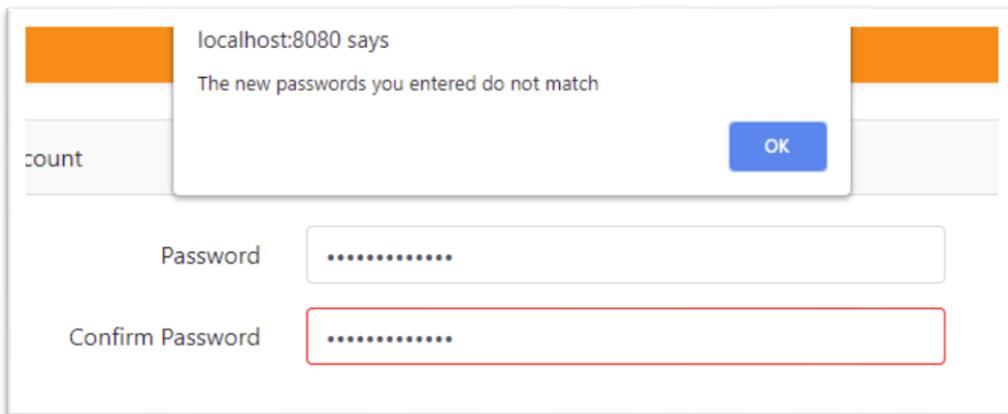
### 2.1.2 Invalid Password

Your password must follow the standards set by the website.

The screenshot shows a web page with a form for creating a password. The "Password" field contains several dots. A tooltip message below the field states: "Con [!] Password must have at least 8 characters. 1 upper case, 1 lower case, 1 number, and 1 special character".

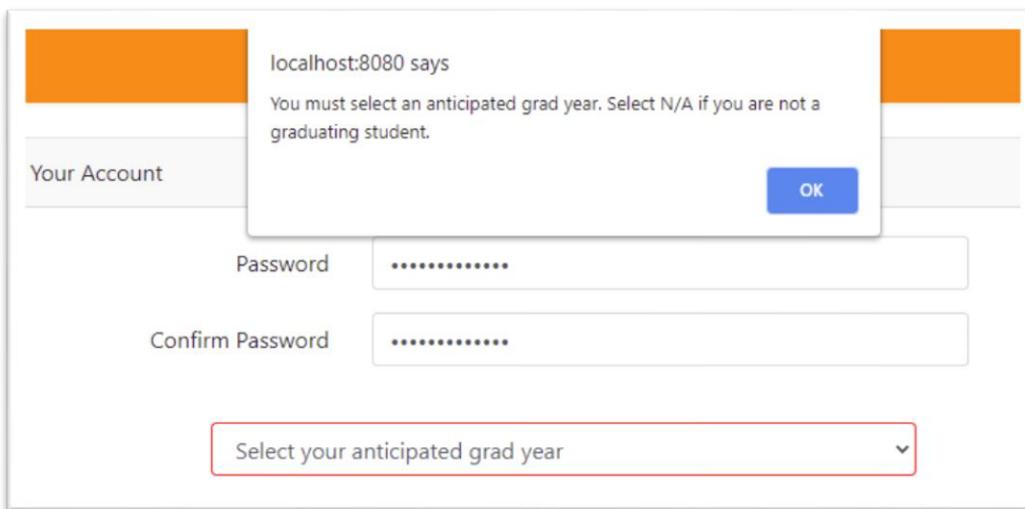
### 2.1.3 Mismatching Passwords

The “Password” and “Confirm Password” fields must match.



### 2.1.4 Empty Grad Year

It is required that you fill out the anticipated grad year section of the survey.



### 2.1.5 Empty Horse Experience

It is required that you fill out the Horse Experience section of the survey.

Please indicate how much previous experience you have with horses

None

! Please select one of these options.

Intermediate

Advanced

Expert

[Create Account](#)

### 2.2 Login

Permitted roles: All

By logging in you will be able to access the Animal Behaviour Tool web application.

In your web browser, visit the following address:

[animal-behaviour.ahs.upei.ca](http://animal-behaviour.ahs.upei.ca)

The login page will be displayed.

**Animal Behaviour**

Login

E-Mail Address

Password

Remember Me

[Login](#)

[Forgot Your Password?](#)

- 1) Fill out your account information, as provided by the administrator.
  - a. The username will be the email address from which you followed the registration link.
  - b. The password will be whatever you set it as during account registration.

2) Click on the Login button.

#### **ADMIN ACCOUNT LOGIN INFO**

E-mail address: behaviouralratingtool@gmail.com

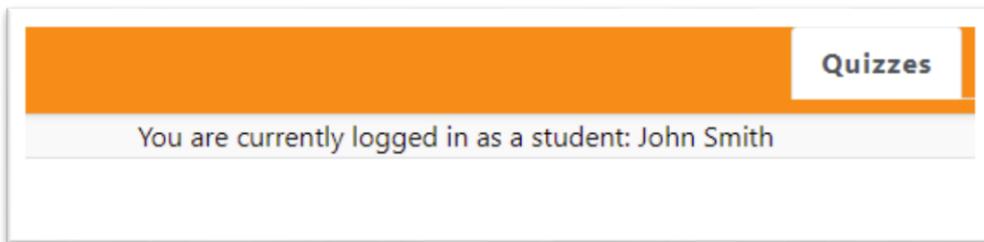
Application Password: kN%U7YT57B36ZZ7H

Gmail Account Password: upeibrt2021

Two-factor Authentication: Required for the gmail account. The admin will have to set one up on their phone. Contact [aisenor@upei.ca](mailto:aisenor@upei.ca) to gain access to the account.

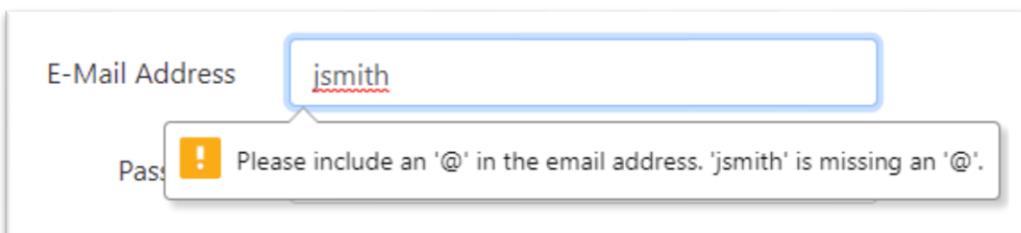
#### **2.2.1 Successful Login**

You will be taken to the quizzes page.



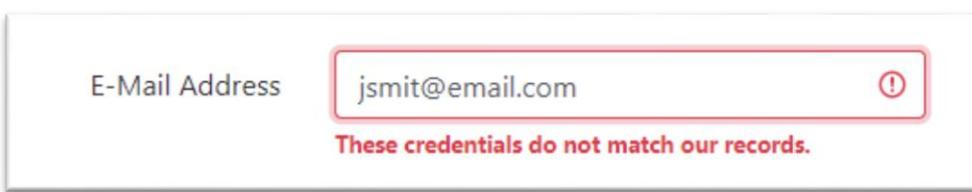
#### **2.2.2 Not Using Email to Log In**

You must use a whole email address to log in.



#### **2.2.3 Invalid Email Address**

You must use a registered email to be able to access the website.



## 2.2.4 Invalid Password

Incorrect passwords will also display the mismatched credentials message.

The screenshot shows a login interface with two fields: 'E-Mail Address' containing 'jsmith@email.com' and 'Password'. A red border highlights the 'E-Mail Address' field. Below the fields, a red message box displays the text 'These credentials do not match our records.' with an information icon.

## 2.2.5 Expired Password

Password reset requests will expire after 30 minutes.

The screenshot shows a 'Reset Password' page with an 'E-Mail Address' field containing 'jsmith@email.com'. A red border highlights the 'E-Mail Address' field. Below the field, a red message box displays the text 'This password reset token is invalid.' with an information icon.

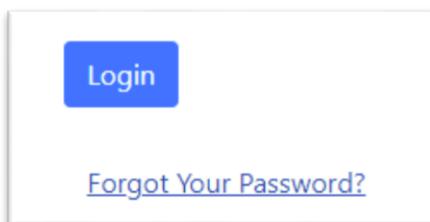
## 2.3 Forgot Your Password

Permitted Roles: All

Users are able to reset their password whenever they want, if they forgot it.

Visit the front page of the website [animal-behaviour.ahs.upei.ca](http://animal-behaviour.ahs.upei.ca)

Follow the link below the Login button:



You will be taken to a password reset page. Enter your email address to be emailed a reset link.

The screenshot shows a 'Reset Password' page. It has an 'E-Mail Address' field and a blue 'Send Password Reset Link' button. The 'E-Mail Address' field is currently empty.

### 2.3.1 Successful Reset

A success message will show up, as well as an email sent to your email address.

Reset Password

We have emailed your password reset link!

E-Mail Address

Send Password Reset Link

**Hello!**

You are receiving this email because we received a password reset request for your account.

**Reset Password**

This password reset link will expire in 30 minutes.

If you did not request a password reset, no further action is required.

Regards,  
Animal Behaviour

If you're having trouble clicking the "Reset Password" button, copy and paste the URL below into your web browser: <http://localhost:8080/password/reset/9a41a5745b7de9f5556f0eb9ed9605c65cd3ef1dc30375316fa4a4dba85d2b0d?email=zmclure%40upei.ca>

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Clicking the Reset Password button will take you back to the website, where you must fill in a new password.

The image shows two screenshots of a web application. The top screenshot is a 'Reset Password' form with fields for E-Mail Address (jsmith@email.com), Password, and Confirm Password, followed by a blue 'Reset Password' button. The bottom screenshot shows the homepage with a green header bar stating 'Your password has been reset!', an orange navigation bar with 'Animal Behaviour', and a user status bar indicating 'You are currently logged in as a student: John Smith'. Navigation links include 'Quizzes', 'Review', 'Account', and 'Logout'.

### 2.3.2 Not Using Email for Password Reset

You must use a whole email address to receive the password reset.

The image shows a 'Reset Password' form. The 'E-Mail Address' field contains 'jsmith'. A yellow warning box with an exclamation mark says: 'Please include an '@' in the email address. 'jsmith' is missing an '@'.' The background shows a blurred version of the previous screenshot's homepage.

### 2.3.3 Incorrect Email Address

You must use a registered email address to be sent the reset link

The image shows a 'Reset Password' form. The 'E-Mail Address' field contains 'lsmith@email.com'. A red error message below the field says: 'We can't find a user with that email address.' The background shows a blurred version of the previous screenshot's homepage.

### 2.3.4 Invalid New Password

Your new password must follow the standards set by the website.

The screenshot shows a 'Reset Password' form. It has two input fields: 'E-Mail Address' containing 'jsmith@email.com' and 'Password' containing '\*\*\*\*\*'. Below the password field is a validation message: 'Password must have at least 8 characters. 1 upper case, 1 lower case, 1 number, and 1 special character'. The 'Password' field is highlighted with a blue border, indicating it is the focus of the validation error.

### 2.3.5 New Password Mismatch

The “Password” and “Confirm Password” fields must match..

The screenshot shows a form with two input fields: 'Password' and 'Confirm Password'. The 'Password' field is empty and has a red border with a red exclamation mark icon in the top right corner. Below it is an error message: 'The password confirmation does not match.' The 'Confirm Password' field is also empty.

## 2.4 Account Management

Permitted Roles: All

Users may manage their account by selecting the “Account” tab on the top right of the screen.

The screenshot shows a user interface for account management. At the top, there is a navigation bar with tabs: Quizzes, Review, Account (which is highlighted in orange), and Logout. Below the navigation bar, there are three main sections for managing personal information:

- Change Your Name:** Contains fields for First Name (John) and Last Name (Smith).
- Change Your Email:** Contains fields for Old Email (jsmith@email.com), New Email, and Confirm New Email.
- Change Your Password:** Contains fields for Old Password, New Password, and Confirm New Password.

At the bottom of the form is a blue "Save Changes" button.

Here, users may change their name, their email address, or their password. You may do any of these tasks at the same time by filling in the appropriate fields, then clicking the “Save Changes” button.

## 2.5 Change Your Name

Permitted Roles: All

Users may change their name by selecting the “Account” tab on the top right of the screen, then fill out the fields in the Change Your Name section. Users may change their first name, last name, or both.

The screenshot shows a 'Change Your Name' form. It has two input fields: 'First Name' containing 'John' and 'Last Name' containing 'Smith'.

### 2.5.1 Successful Name Change

A success message will appear upon changing your name. You are also able to see your new name as a placeholder in the name fields.

The screenshot shows the same 'Change Your Name' form as before, but now with a green success message bar at the bottom that reads 'Name changed successfully!'. The 'First Name' field still contains 'Jeff' and the 'Last Name' field still contains 'Smith'.

## 2.6 Change Your Email

Permitted Roles: All

Users may change their email by selecting the “Account” tab on the top right of the screen, then fill out the fields in the Change Your Email section.

The screenshot shows a 'Change Your Email' form with three input fields. The 'Old Email' field contains 'jsmith@email.com'. The 'New Email' and 'Confirm New Email' fields both contain 'New Email'.

### 2.6.1 Successful Email Change

A success message will appear upon changing your email address. You are also able to see your new email as a placeholder in the Old Email field.

The screenshot shows a 'Change Your Email' form with three input fields. The 'Old Email' field contains 'johnsmith@gmail.com'. The 'New Email' and 'Confirm New Email' fields both contain 'New Email'. Below the form, a green bar displays the message 'Email changed successfully!'

### 2.6.2 Invalid Current Email

An error message will display if what you put in the Old Email field does not match your current email.

The screenshot shows a 'Change Your Email' form. The 'Old Email' field contains 'jsmith@emial.ca'. Below the form, an error message box displays the text 'The email you have entered does not match the email used for this account'.

### 2.6.3 Mismatching New Email

An error message will display if the New Email and Confirm New Email fields do not match

The screenshot shows a user interface for changing their name. At the top, there's a navigation bar with tabs for 'Places', 'Review', and 'Account'. Below the navigation, a modal window is open with an orange header. The modal contains the text 'localhost:8080 says' and 'The new emails you entered do not match'. There is an 'OK' button at the bottom right of the modal. The main form has fields for 'First Name' (John) and 'Last Name' (Smith). Below this, another section titled 'Change Your Email' has three fields: 'Old Email' (jsmith@email.com), 'New Email' (jsmith@email.com), and 'Confirm New Email' (johnsmith@gmail.com). The 'Confirm New Email' field is highlighted with a red border.

### 2.6.4 Empty New Email Fields

An error message will display if nothing is entered into the New Email fields.

The screenshot shows a user interface for changing their email. A modal window is open with the text 'localhost:8080 says' and 'Please enter a new email or remove your old email'. An 'OK' button is at the bottom right. The main form has sections for 'Change Your Email'. The 'Old Email' field is filled with 'jsmith@email.com' and has a blue border. The 'New Email' field is empty and has a red border. The 'Confirm New Email' field is also empty and has a red border.

## 2.7 Change Your Password

Permitted Roles: All

Users may change their email by selecting the “Account” tab on the top right of the screen, then fill out the fields in the Change Your Email section.

The screenshot shows a 'Change Your Password' form. It has three input fields: 'Old Password', 'New Password', and 'Confirm New Password'. Each field is preceded by a label and followed by a text input box.

### 2.7.1 Successful Password Change

A success message will appear upon changing your password.

The screenshot shows the same 'Change Your Password' form as above, but with a green success message bar at the bottom containing the text 'Password changed successfully!'. The rest of the interface is identical to the first screenshot.

## 2.7.2 Incorrect Current Password

An error message will appear if the password you entered in the “Old Password” field does not match your current password.

The screenshot shows a web-based password change interface. At the top, it says "Change Your Password". Below that are three input fields: "Old Password", "New Password", and "Confirm New Password". A pink horizontal bar at the bottom contains the text "Incorrect Password." in red capital letters.

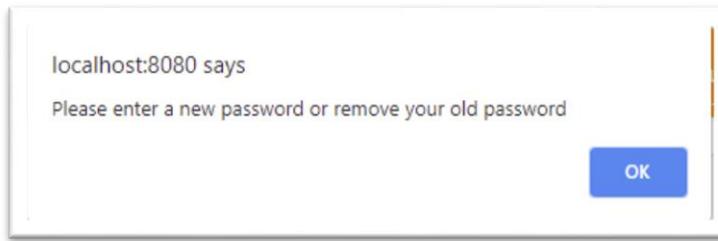
## 2.7.3 Mismatching New Password

An error message will appear if the passwords you entered in the “New Password” and “Confirm New Password” fields do not match.

The top part of the image shows a modal dialog box with an orange header bar. The text inside reads "localhost:8080 says" followed by "The new passwords you entered do not match". There is a blue "OK" button at the bottom right. The bottom part of the image shows a screenshot of a password change form. It has two input fields: "New Password" containing "....." and "Confirm New Password" containing ".....", which is highlighted with a red border.

## 2.7.4 Empty New Password Fields

An error message will appear if you did not enter anything into the New Password fields.



## 2.8 View Quizzes

Permitted Roles: All

Users may view quizzes by selecting the “Quizzes” tab on the top right of the screen. This is also the “home” page of the website, where the user is redirected upon logging in.

Quiz Code	Attempts	Best Score			Take Quiz
		Behaviours	Interpretation		
Cow004	0	- / -	-		<button>Take Quiz</button>
Horse001	0	- / -	-		<button>Take Quiz</button>
Horse002	0	- / -	-		<button>Take Quiz</button>
Horse003	0	- / -	-		<button>Take Quiz</button>

Showing 1 to 4 of 4 entries

Here, users may search for specific quizzes by name, and select a quiz to attempt. They may also view their number of attempts on each quiz, as well as their best scores.

## 2.9 Attempt Quiz

Permitted Roles: All

Users may attempt a quiz by simply clicking on the Take Quiz button. The user will be taken to another page where they can see a video they must watch. Above the video the user can see the name of the quiz, the attempt number they are currently on, and the time elapsed since they first visited the page.

Attempting Quiz: Horse001 Attempt #1

00:00:13

▶ 0:00

Behaviours

Select all the behaviours you see in the video

- +1 Right answers
- 1 Wrong answers

Kicking

Dancing

Interpretation

Select your interpretation based on the behaviours displayed

This is either right or wrong

Angry

Happy

Submit Responses

After watching the video, the user must fill in their quiz response, indicating which animal behaviours they observed in the clip, as well as selecting what they believe is the correct interpretation of what these behaviours mean. The user then must press the “Submit Responses” button to submit their quiz attempt. The user will earn 1 point for selecting a correct behaviour, or for leaving incorrect responses blank. Otherwise, points are deducted from the total. Interpretations are either right or wrong.

### 2.9.1 Successful Quiz Attempt

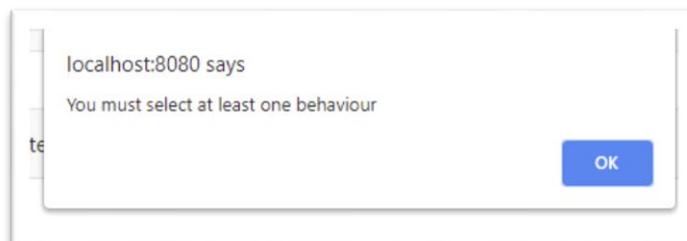
If the user fills out the quiz properly, they will be redirected back to the main Quizzes page, where a message will display their results. Additionally, the quiz data in the table will be updated with their number of attempts, and best scores.

The screenshot shows a table titled "Quizzes" with a green header bar containing the message "You got 2/2 on Horse001. You have chosen the correct interpretation." Below the header, there are search and filter options ("Show 5 entries" and "Search"). The table has columns: Quiz Code, Attempts, Behaviours, Interpretation, and Take Quiz. There are two rows: one for "Cow004" with 0 attempts and a blank interpretation, and one for "Horse001" with 1 attempt, a score of 2 / 2, and an interpretation of 1. Both rows have a "Take Quiz" button.

Quiz Code	Attempts	Best Score		Take Quiz
		Behaviours	Interpretation	
Cow004	0	- / -	-	<button>Take Quiz</button>
Horse001	1	2 / 2	1	<button>Take Quiz</button>

### 2.9.2 No Behaviours Selected

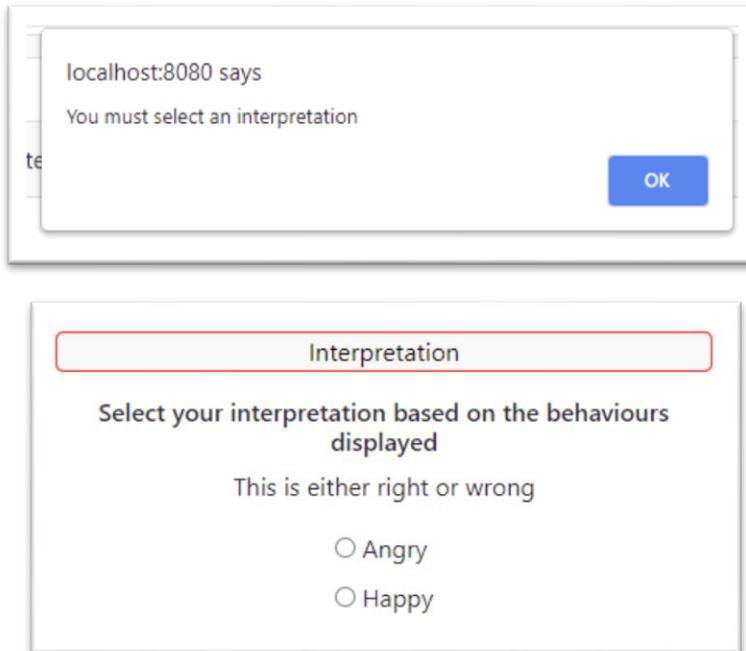
An error message will appear if the user did not select at least one observed behaviour.



The interface shows a red-bordered input field labeled "Behaviours". Below it, the text "Select all the behaviours you see in the video" is displayed. Underneath, there are two sections: "+1 Right answers" and "-1 Wrong answers". Two checkboxes are shown: "Kicking" (unchecked) and "Dancing" (unchecked).

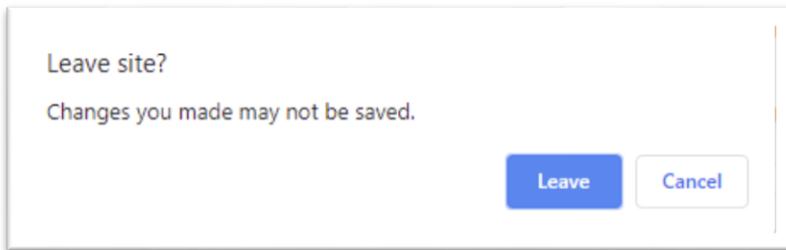
### 2.9.3 No Interpretation Selected

An error message will appear if the user did not select an interpretation of the meaning behind the observed behaviours.



### 2.9.4 Leaving Quiz Without Submitting

A warning message will be displayed if you try to navigate away from the quiz without submitting your responses.



## 2.10 Review Past Quiz Attempts

Permitted Roles: All

Users may review past quiz attempts by selecting the “Review” tab on the top right of the page.

Quiz Code	Attempted At	Time Spent	Score	
			Behaviours	Interpretation
Cow004	2021-04-14 18:16:53	0:08	0 / 2	0
Cow004	2021-04-14 18:17:08	0:06	2 / 2	1
Horse001	2021-04-14 18:13:22	1:08	2 / 2	1

You may click on a Quiz Code to view what you entered for that particular attempt. Options that were answered correctly will be highlighted in green. Incorrect selections will not be highlighted.

Reviewing Quiz: Cow004 Attempt 2  
Time Taken: 0:06

Behaviours: 2/2 Interpretation: 1/1

▶ 0.00

Below are the responses you selected. Correct responses are highlighted.

Behaviours	Interpretation
You correctly selected all behaviours. <input checked="" type="checkbox"/> Mooing Angry	Your interpretation was correct <input checked="" type="radio"/> Angry
<input type="checkbox"/> Mooing Happily	<input type="radio"/> Happy

### 2.10.1 Review of Every User's Attempts

Admin and TA accounts may also review quizzes, but in addition to their own attempts, they can see the attempts of everyone else.

The screenshot shows the 'Animal Behaviour' tool interface with two main sections for reviewing quizzes:

- Review My Quizzes:** This section allows the user to view their own quiz attempts. It includes a table with columns: Quiz Code, Attempted At, Time Spent, Behaviours, and Interpretation. A 'Score' column header is present above the Behaviours column. A message indicates "No data available in table".
- Review All Student Quizzes:** This section allows the user to view quizzes taken by other students. It includes a table with columns: Student, Quiz Code, Number of Attempts, Best Time, Behaviours, and Interpretation. A 'Best Score' column header is present above the Behaviours column. The table lists four entries for student Jacob Marley across four different quizzes (Cow004, Horse001, Horse002, Horse003). The 'Behaviours' column shows scores like 2 / 2 or 0 / 2, and the 'Interpretation' column shows values like 1 or 0.

Clicking on a student's name will show you a table with every attempt made by that student.

Review Student Quizzes:								
Show <input type="button" value="Previous"/> <input type="button" value="Next"/> entries		Search: <input type="text"/>						
Student	Quiz Code	Attempted At		Time Spent		Behaviours	Score	Interpretation
		Attempted At	Time Spent	Behaviours	Score			
Jacob Marley	Cow004	2021-04-14 18:49:10	0:08	2 / 2	1			
Jacob Marley	Horse001	2021-04-14 18:49:23	0:05	0 / 2	1			
Jacob Marley	Horse001	2021-04-14 18:49:53	0:08	2 / 2	1			
Jacob Marley	Horse002	2021-04-14 18:49:36	0:06	1 / 2	1			
Jacob Marley	Horse002	2021-04-14 18:50:08	0:06	2 / 2	1			
Jacob Marley	Horse003	2021-04-14 18:50:28	0:10	2 / 2	0			

Showing 1 to 6 of 6 entries

Clicking the quiz code from here will show what that student answered on that attempt, with correct answers being highlighted, similar to the student view.

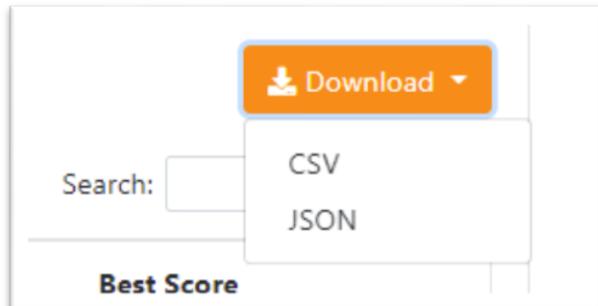
Clicking the quiz code from the previous page will take you to a list of all the students that took that quiz.

Review Student Quizzes:								
Show <input type="button" value="Previous"/> <input type="button" value="Next"/> entries		Search: <input type="text"/>						
Student	Quiz Code	Attempted At		Time Spent		Behaviours	Score	Interpretation
		Attempted At	Time Spent	Behaviours	Score			
Jacob Marley	Horse001	2021-04-14 18:49:23	0:05	0 / 2	1			
Jacob Marley	Horse001	2021-04-14 18:49:53	0:08	2 / 2	1			

Showing 1 to 2 of 2 entries

## 2.10.2 Exporting User Attempts

Admin and TA accounts may export a .csv or .json file by clicking the dropdown Download button on the Review tab. This file will contain the students' emails, quizzes they attempted, the number of attempts, their best scores, and the time taken to complete their best attempt.

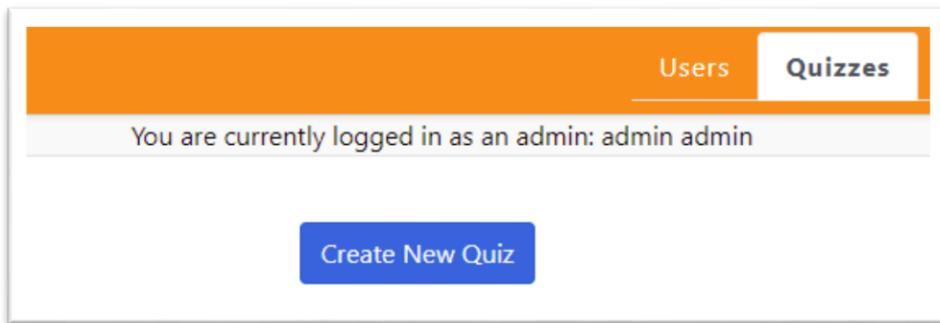


Student	Quiz Code	Number of Attempts	Best Score	Interpretation	Best Time
jmarley@email.com	Cow004	1	2/2	1	0:08
jmarley@email.com	Horse001	2	2/2	1	0:08
jmarley@email.com	Horse002	2	2/2	1	0:06
jmarley@email.com	Horse003	1	2/2	0	0:10

## 2.11 Create New Quizzes

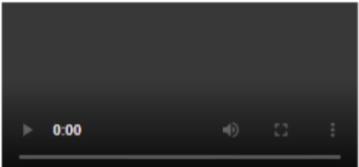
Permitted Roles: Admin, TA

Permitted users may create new quizzes for the Animal Behaviour Tool by first selecting the “Quizzes” tab on the top right of the page, then by clicking the “Create New Quiz” button. This button should be hidden unless the currently logged in user has permission to create quizzes.



The user will then be taken to a page where they may fill out forms to create a new quiz.

Create A New Quiz



Choose file

**Behaviours**

Enter all the behaviours to included in the quiz  
Fields left "Edit me..." or blank will not be included in the quiz

**Check the correct answers**

Edit me...  
 Edit me...

**Interpretation**

Enter all the interpretations to included in the quiz  
Fields left "Edit me..." or blank will not be included in the quiz

**Select the correct answers**

Edit me ...  
 Edit me ...

**Video information**

ID	<input type="text" value="Autogenerated ID"/>
Name	<input type="text" value="Quiz Name"/>

**Animal information**

This will be autogenerated to show all possible animals to choose from

Or allow to enter a new animal if it isn't an option

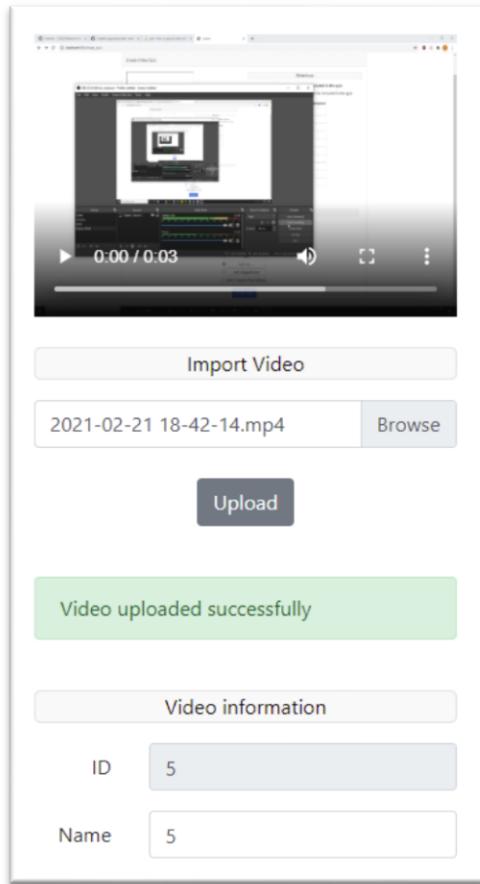
Horse  
 Cow  
 Edit me ...

The user must first upload a video file from their local device. Click the “Browse” button, choose the video file you would like to upload, then click the “Upload” button.

**IMPORTANT:**

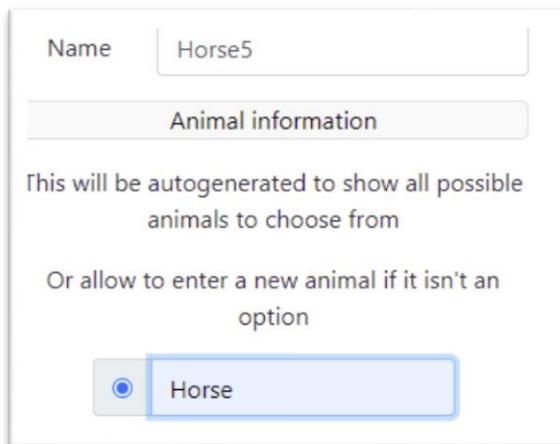
It is highly recommended to keep the videos within the following limitations:

30 seconds @ 60fps 50mb bitrate 1080p



A loading bar should appear, indicating the upload is occurring. A message that the video was successfully uploaded should then be displayed. The user should be able to now replay the video in their web browser to make sure that they uploaded the correct video file. The video is automatically assigned an ID number. Every video upload will have its own unique ID. **The "Name" field indicates what the name of the quiz will be**, and is automatically populated with the video ID.

The user should then select which animal appears in the video. By default, the list will be empty, but the user can fill in any animal they like.



The “Name” field should automatically update with the animal name, allowing for easy quiz identification. If the user is unsatisfied with the quiz name, they may change the “Name” field to whatever they like.

If there are already quizzes in the system, the Animal Information section will be automatically populated with the animals from the already existing quizzes. This allows the quiz creator to simply select the animal, instead of needing to type it out again.

Animal information

This will be autogenerated to show all possible animals to choose from

Or allow to enter a new animal if it isn't an option

<input checked="" type="radio"/>	Horse
<input type="radio"/>	Cow
<input type="radio"/>	Edit me ...

The user then must fill out the Behaviours section with all the animal behaviour options they would like their quiz to contain. They must select the checkboxes next to the answers that are considered correct.

Behaviours

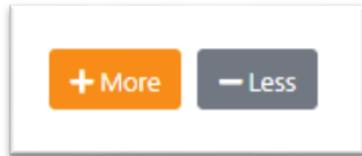
Enter all the behaviours to included in the quiz

Fields left “Edit me...” or blank will not be included in the quiz

Check the correct answers

<input type="checkbox"/>	Kicking
<input type="checkbox"/>	Screaming
<input checked="" type="checkbox"/>	Dancing
<input checked="" type="checkbox"/>	Singing
<input type="checkbox"/>	Edit me...
<input type="checkbox"/>	...

By default there will be 10 available spaces in the Behaviours section, but the quiz creator may create more by clicking on the “+ More” button at the bottom of the section. Likewise, they may also take away any extra fields they created using the “- Less” button.



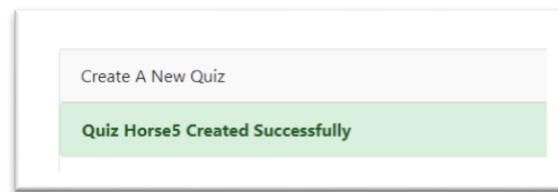
Finally, the user needs to fill in the Interpretation section to contain whatever interpretation options they want to have in their quiz. They must also select the bubble next to whatever the correct answer is. There may only be one correct answer here. Once again, there are a default of 5 available spaces, but you may add more by clicking on the buttons toward the bottom of this section.

A screenshot of the Interpretation section of the quiz creation tool. It shows a title 'Interpretation', instructions to 'Enter all the interpretations to included in the quiz', and a note that 'Fields left "Edit me..." or blank will not be included in the quiz'. Below this, there is a section titled 'Select the correct answers' with three radio buttons: 'Angry' (unchecked), 'Happy' (checked), and 'Sad' (unchecked).

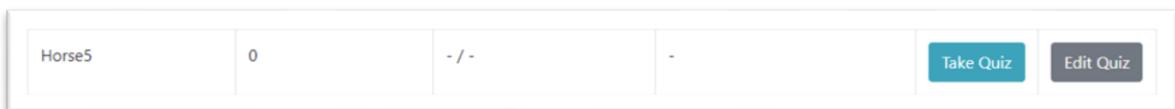
To finalize the quiz creation, the user needs to click on the “Create Quiz” button at the bottom of the page.

### 2.11.1 Successful Quiz Creation

If everything was filled out correctly, the page should refresh and a success message should appear, indicating that the quiz was created successfully, and the quiz name should also be displayed in that message.



Clicking on the Quizzes tab again should take the user back to the main quizzes page, where they should now be able to see the new quiz they created.



And finally, to verify that everything worked, the user should click on the new quiz and ensure that the page is displaying the correct video, and has the correct options available.

Attempting Quiz: Horse5 Attempt #1

00:00:10

Behaviours

Select all the behaviours you see in the video

- +1 Right answers
- 1 Wrong answers
- Kicking
- Screaming
- Dancing
- Singing

Interpretation

Select your interpretation based on the behaviours displayed

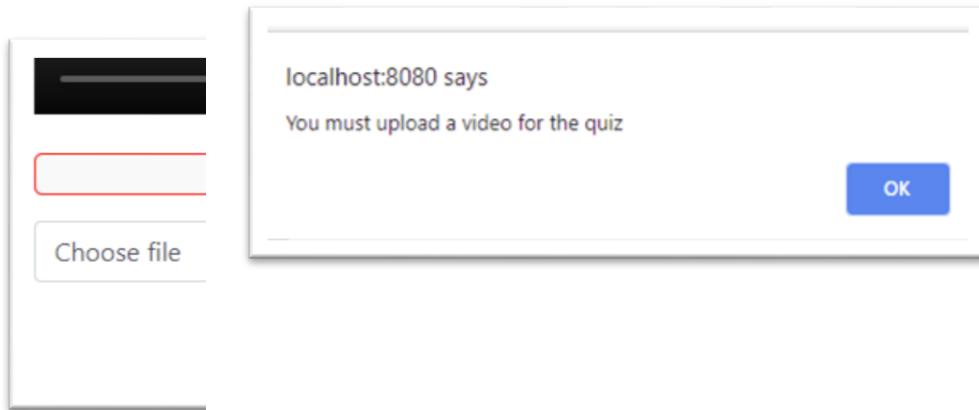
This is either right or wrong

- Angry
- Happy
- Sad

Submit Responses

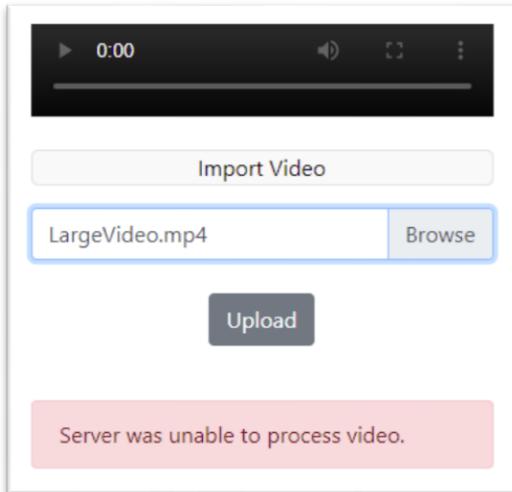
### 2.11.2 No Video Uploaded

An error message will appear if the user did not upload a video to go along with their quiz.



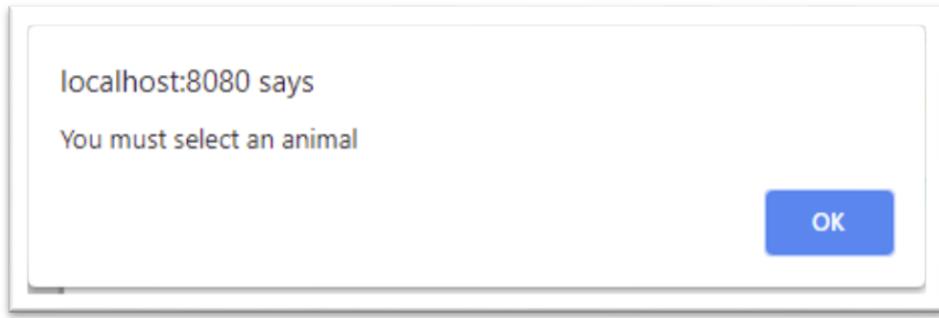
### 2.11.3 Video File Too Large

An error message will appear if the user uploaded a video file that is too large for the server to handle. The video must respect the restrictions of 30 seconds @ 60fps 50mb bitrate 1080p.



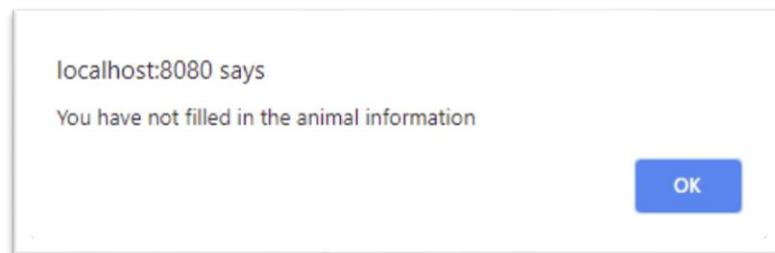
### 2.11.4 No Animal Selected

An error message will appear if the user did not select which animal appears in the video.



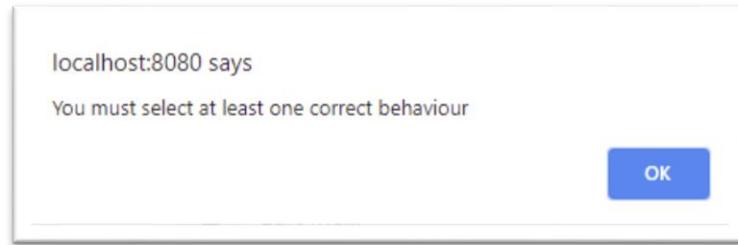
### 2.11.5 No Animal Written In

An error message will appear if the user did not write in an animal in the provided text field.



### 2.11.6 Incomplete Behaviours Section

An error message will appear if the user either did not write in any behaviours, or did not indicate which behaviours are correct.



**Behaviours**

Enter all the behaviours to included in the quiz  
Fields left "Edit me..." or blank will not be included in the quiz

Check the correct answers

Edit me...

Edit me...

Edit me...

...  
[A horizontal ellipsis button]

**Behaviours**

Enter all the behaviours to included in the quiz  
Fields left "Edit me..." or blank will not be included in the quiz

Check the correct answers

Kicking

Screaming

Dancing

Singing

[A horizontal ellipsis button]

#### 2.11.7 Incomplete Interpretation Section

An error message will appear if the user either did not write in any interpretations, or did not indicate which interpretation is correct.



**Interpretation**

Enter all the interpretations to included in the quiz

Fields left "Edit me..." or blank will not be included in the quiz

Select the correct answers

Edit me ...

Edit me ...

- ..

**Interpretation**

Enter all the interpretations to included in the quiz

Fields left "Edit me..." or blank will not be included in the quiz

Select the correct answers

Angry

Happy

Sad

- ..

#### 2.11.8 Incomplete Name Section

An error message will appear if the user tries to submit a new quiz with an empty Name field.



### 2.11.9 Change Maximum Number of Behaviours/Interpretations

In order to change the maximum number of allowed behaviours/interpretations in a quiz, you must change the numbers in the following files on the following lines:

In src/resources/views

File: admin\_create\_quiz.blade.php

Line 140 @foreach(range(10,29) as \$x) change 29 to one less than the number of behaviours you wish to allow

Line 185 @foreach(range(5,29) as \$x) change 29 to one less than the number of interpretations you wish to allow

File: admin\_edit\_quiz.blade.php

Line 134 @foreach (range(0,29) as \$x) change 29 to one less than the number of behaviours you wish to allow

Line 201 @foreach (range(0,29) as \$x) change 29 to one less than the number of interpretations you wish to allow

In src/public/javascript

File admin\_create\_quiz.js

On lines 4 and 8 change the MAX\_BEHAVIOURS and MAX\_INTERPRETATION variables to exact number you wish to allow

In src/app/Http/Controllers

File CreateQuizController.php

Line 107 \$max\_behaviours = 30; change the 30 to whatever you want the maximum number of behaviours to be

Line 169 \$max\_interpretations = 30; change the 30 to whatever you want the maximum number of interpretations to be

File EditQuizController.php

Line 96 \$max\_behaviours = 30; change the 30 to whatever you want the maximum number of behaviours to be

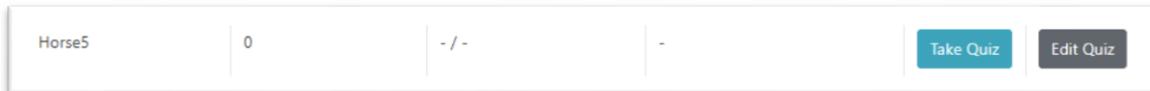
Line 159 \$max\_interpretations = 30; change the 30 to whatever you want the maximum

number of interpretations to be

## 2.12 Edit Quizzes

Permitted Roles: Admin, TA, Expert

Permitted accounts may edit existing quizzes by selecting the Edit Quiz button on the same row as the quiz they would like to change.



You will be taken to a page very similar to the create quiz page. The forms are subject to all the same restrictions as the create quiz page as well.

**Edit Quiz Horse5**

**Video information**

ID:

Name:

**Animal information**

This will be autogenerated to show all possible animals to choose from

Or allow to enter a new animal if it isn't an option

Horse

Cow

Enter new animal ...

**Behaviours**

Enter all the behaviours to included in the quiz

Fields left "Edit me..." or blank will not be included in the quiz

Check the correct answers

Kicking

Screaming

Dancing

Singing

Edit me...

Edit me...

Edit me...

Edit me...

**Interpretation**

Enter all the interpretations to included in the quiz

Fields left "Edit me..." or blank will not be included in the quiz

Select the correct answers

Angry

Happy

Sad

Edit me ...

Edit me ...

+ More - Less

Let's say we want to change the name, and add a few more behaviours...

Name

**Behaviours**

Enter all the behaviours to included in the quiz  
Fields left "Edit me..." or blank will not be included in the quiz

Check the correct answers

<input type="checkbox"/>	Kicking
<input type="checkbox"/>	Screaming
<input checked="" type="checkbox"/>	Dancing
<input checked="" type="checkbox"/>	Singing
<input type="checkbox"/>	Crying
<input checked="" type="checkbox"/>	Neighing
<input type="checkbox"/>	Snorting

Clicking on the “Save Changes” button will take you back to the quizzes page with a confirmation message.

Quizzes						
Successfully Edited Quiz HorseEdited						
Show <input type="button" value=""/> entries <span style="float: right;">Search: <input type="text"/></span>						
Quiz Code	Attempts	Behaviours	Interpretation	Take Quiz	Edit Quiz	
Cow004	0	- / -	-	<input type="button" value="Take Quiz"/>	<input type="button" value="Edit Quiz"/>	
Horse001	0	- / -	-	<input type="button" value="Take Quiz"/>	<input type="button" value="Edit Quiz"/>	
Horse002	0	- / -	-	<input type="button" value="Take Quiz"/>	<input type="button" value="Edit Quiz"/>	
Horse003	0	- / -	-	<input type="button" value="Take Quiz"/>	<input type="button" value="Edit Quiz"/>	
HorseEdited	0	- / -	-	<input type="button" value="Take Quiz"/>	<input type="button" value="Edit Quiz"/>	

Showing 1 to 5 of 5 entries Previous  1 Next

And if you go and take the quiz, you should be able to see the new changes:

Attempting Quiz: HorseEdited

Behaviours

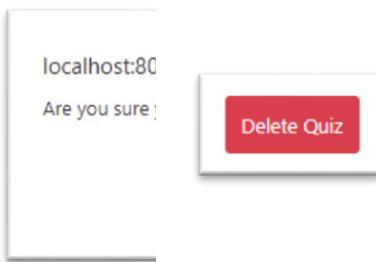
Select all the behaviours you see in the video

+1 Right answers  
-1 Wrong answers

- Kicking
- Screaming
- Dancing
- Singing
- Crying
- Neighing
- Snorting

### 2.12.1 Delete Quizzes

Only admin accounts may delete quizzes. From the Edit Quiz page, you are also able to delete the selected quiz using the Delete Quiz button. A confirmation message will pop up to check if you are absolutely sure you would like to proceed with the deletion. The quiz will be removed from the table, but quiz statistics will remain in the database.



Quiz Code	Attempts	Best Score		Take Quiz	Edit Quiz
		Behaviours	Interpretation		
Cow004	0	- / -	-	<button>Take Quiz</button>	<button>Edit Quiz</button>
Horse001	0	- / -	-	<button>Take Quiz</button>	<button>Edit Quiz</button>
Horse002	0	- / -	-	<button>Take Quiz</button>	<button>Edit Quiz</button>
Horse003	0	- / -	-	<button>Take Quiz</button>	<button>Edit Quiz</button>

## 2.13 View Users

Permitted Roles: Admin, TA

Permitted accounts may view all the users in the system by selecting the “Users” tab on the top right of the screen.

Full Name	Email	View User Progress	Edit User
admin admin	admin@example.com	<a href="#">View User's Quizzes</a>	<a href="#">Edit User</a>

Here you can see a list of all the users. You are able to show 10, 25, 50, or 100 users per page using the dropdown menu on the top left. You may also sort the users by first name or last name.

### 2.13.1 Export Users

Admin and TA accounts may export a list of users in a .csv or .json file by selecting an option from the dropdown Download menu.



Email	First Name	Last Name	Grad_Year	Experience	Role
admin@example.com	admin	admin			Admin
jmarley@email.com	Jacob	Marley	2021	none	Student

## 2.14 Create New Users

Permitted Roles: Admin, TA

Permitted accounts may create new users by first selecting the “Users” tab on the top right of the page, then by clicking the “Add Users” button.

The screenshot shows the 'Animal Behaviour' application interface. At the top, there is a navigation bar with tabs: 'Users' (which is active), 'Quizzes', 'Review', 'Account', and 'Logout'. Below the navigation bar, there are two main sections: 'Add Single User' and 'Add Multiple Users'. The 'Add Single User' section contains fields for 'First Name' (with 'John' entered), 'Last Name' (with 'Smith'), 'Email' (with 'johndoe@upei.ca'), and 'Role' (set to 'Student'). A blue 'Add User' button is located at the bottom of this section. To the right, the 'Add Multiple Users' section includes a 'Download CSV Template' button, a 'Download JSON Template' button, and a file upload area labeled 'Add Multiple Users from a File' with a 'Choose File' button and an 'Upload' button. Below these buttons is a preview table showing 10 rows of user data with columns for First Name, Last Name, and Email.

	A	B	C
1	First Name	Last Name	Email
2	First	Last	email@upei.ca
3	First	Last	email@upei.ca
4	First	Last	email@upei.ca
5	First	Last	email@upei.ca
6	First	Last	email@upei.ca
7	First	Last	email@upei.ca
8	First	Last	email@upei.ca
9	First	Last	email@upei.ca
10	First	Last	email@upei.ca

Here you have the option to either create a single user, or you could also upload a file allowing you to create multiple users at once.

To create a single user, simply fill out the First Name, Last Name, and Email fields, then make sure that you set their role appropriately. Finalize the user creation by clicking on the “Add User” button.

This screenshot shows the 'Add Single User' form. It contains fields for 'First Name' (with 'Jacob'), 'Last Name' (with 'Marley'), 'Email' (with 'jmarley@email.com'), and 'Role' (set to 'Expert'). A blue 'Add User' button is located at the bottom of the form.

To create multiple users at the same time, you must have a .csv, .json, or .xlsx (Excel) file of the appropriate format on your local device. Moodle extracts class lists as .csv files, making it pretty easy to obtain a class list having the appropriate format. It should be noted that **all users in the file are considered to be Students**. You may also download template files using the two buttons for .csv and .json formats.

The screenshot shows a user interface for adding multiple users. At the top, there's a title bar 'Add Multiple Users'. Below it are two blue buttons: 'Download CSV Template' and 'Download JSON Template'. A section titled 'Add Multiple Users from a File' contains a 'Choose File' button with the path 'uploadtest.csv' and an 'Upload' button. Below this is a preview table:

	A	B	C
1	First Name	Last Name	Email
2	First	Last	email@upei.ca
3	First	Last	email@upei.ca

The contents of “uploadtest.csv” are as follows:

The screenshot shows the contents of the 'uploadtest.csv' file. It is a table with three columns: A, B, and C. The data rows are:

	A	B	C
1	First name	Surname	Email address
2	John	Smith	jsmith@email.com
3	George	Gallant	ggallant@me.com
4	Paul	Arsenault	psherman42@wallabyway.com
5	Ringo	Richardson	beatles@email.org
6	dummy	email	test

When the file has been selected, click on the “Upload” button.

#### 2.14.1 Successful Single User Upload

If everything was filled out correctly, the page should refresh and a success message should appear, indicating that the new user was created successfully.

The screenshot shows a success message box with a green background and white text. It contains the message 'New user added!'.

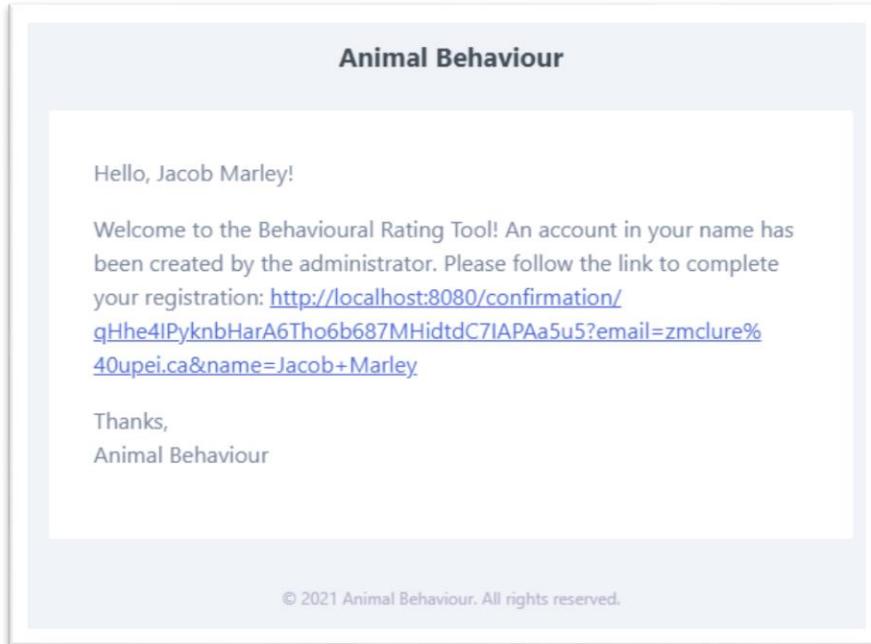
If you go back to the Users page, the new user should appear in the list.

Users				
Show <input type="button" value="▼"/> entries		Search: <input type="text"/>		
First Name	Last Name	View User Progress	Edit User	
admin	admin	<a href="#">View User's Quizzes</a>	<a href="#">Edit User ▾</a>	
Jacob	Marley	<a href="#">View User's Quizzes</a>	<a href="#">Edit User ▾</a>	

Showing 1 to 2 of 2 entries

Previous 1 Next

The newly-created user should receive an email whose instructions they may follow to complete their account registration.



## 2.14.2 Successful Multiple User Upload

If everything worked, the page should refresh and a message should appear, indicating important information such as how many users were uploaded, and if there were any upload errors, which users were affected, and why things went wrong. In this example, “test” is not a valid email address.

The screenshot shows the 'Add Multiple Users' interface. It features two download buttons for CSV and JSON templates. Below them is a file upload section with a 'Choose File' button, a placeholder 'No file chosen', and an 'Upload' button. A success message '4/5 users added.' is displayed in a green box. A red box highlights an error message '1 Emails Are Invalid' above a row labeled 'test'. At the bottom is a preview table:

	A	B	C
1	First Name	Last Name	Email
2	First	Last	email@upei.ca

If you go back to the Users page, the new users should appear in the list. Similar to uploading a single user, each of these new users will also receive an email notification.

The screenshot shows the 'Users' page with a table of user data. The columns are 'First Name', 'Last Name', 'View User Progress', and 'Edit User'. The table contains the following data:

First Name	Last Name	View User Progress	Edit User
admin	admin	<button>View User's Quizzes</button>	<button>Edit User ▾</button>
Paul	Arsenault	<button>View User's Quizzes</button>	<button>Edit User ▾</button>
George	Gallant	<button>View User's Quizzes</button>	<button>Edit User ▾</button>
Jacob	Marley	<button>View User's Quizzes</button>	<button>Edit User ▾</button>
Ringo	Richardson	<button>View User's Quizzes</button>	<button>Edit User ▾</button>
John	Smith	<button>View User's Quizzes</button>	<button>Edit User ▾</button>
First Name	Last Name	View User Progress	Edit User

At the bottom, it says 'Showing 1 to 6 of 6 entries' and has navigation buttons for 'Previous' (blue), '1' (blue), and 'Next'.

### 2.14.3 Uploading Already Existing User

If you try to upload a new single user with an email that already exists within the system, an error message will be displayed.

A screenshot of a user upload form. The 'Email' field contains 'johndoe@upei.ca'. A red exclamation mark icon is positioned next to the input field, and a red error message below it reads 'The email has already been taken.'

### 2.14.4 Incomplete Single User Upload Form

An error message will be displayed if you try to upload a new user while any of the fields are empty.

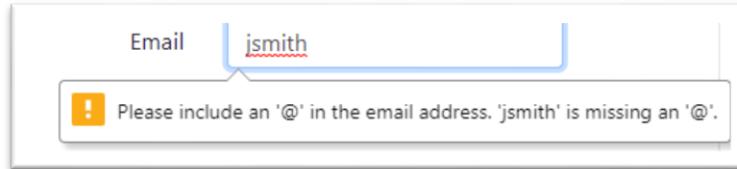
A screenshot of a user upload form. The 'First Name' field contains 'John'. The 'Last Name' field is empty and highlighted with a red border. An orange exclamation mark icon with the text 'Please fill out this field.' is displayed above the field. The 'Email' field contains 'johndoe@upei.ca' and is also highlighted with a red border. An orange exclamation mark icon with the text 'Please fill out this field.' is displayed above the field.

A screenshot of a user upload form. The 'Last Name' field contains 'Smith'. The 'Email' field is empty and highlighted with a red border. An orange exclamation mark icon with the text 'Please fill out this field.' is displayed above the field.

A screenshot of a user upload form. The 'First Name' field contains 'John'. The 'Last Name' field contains 'Smith'. The 'Email' field contains 'johndoe@upei.ca' and is highlighted with a red border. An orange exclamation mark icon with the text 'Please fill out this field.' is displayed above the field. The 'Role' field is empty and highlighted with a red border. An orange exclamation mark icon with the text 'Please fill out this field.' is displayed above the field.

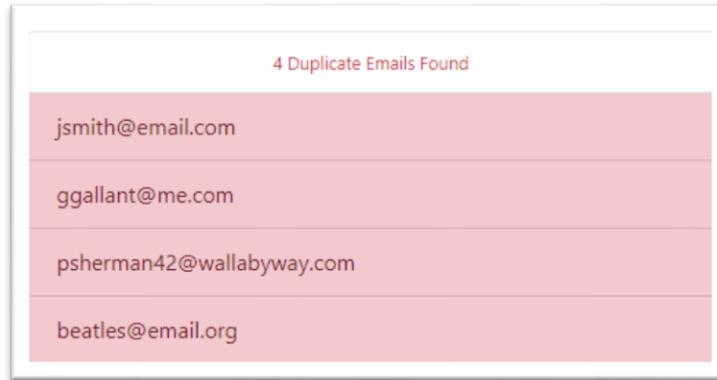
#### 2.14.5 Invalid Email For Single User Upload

An error message will be displayed if you try to upload a new user with an invalid entry in the Email field.



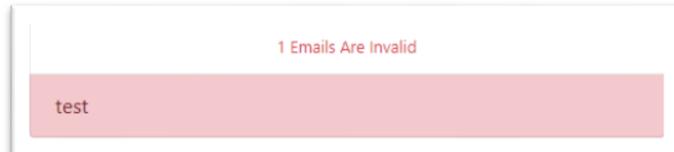
#### 2.14.6 Uploading Already Existing User With File

An error message will be displayed if you try to upload an already existing user with the file upload feature. Also displayed is the number of duplicate emails found, and which emails were affected.



#### 2.14.7 Uploading File with Invalid Email

An error message will be displayed if you try to upload new users using a file that does not have a properly formatted email address. Also displayed is the number of invalid emails, and which emails were affected.



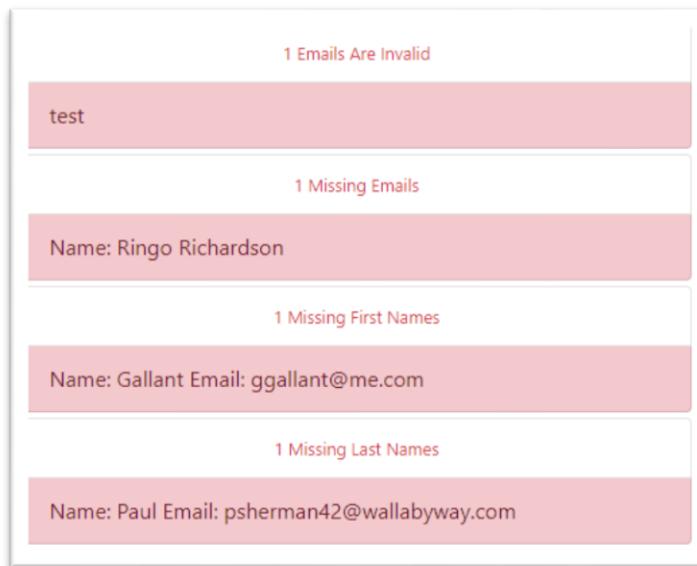
### 2.14.8 Uploading File with Missing Data

An error message will be displayed if you try to upload new users using a file that has missing data. Also displayed is the number of affected entries, and which names/emails were affected.

For instance, if the following .csv file is uploaded:

First name	Surname	Email address
John	Smith	jsmith@email.com
	Gallant	ggallant@me.com
Paul		psherman42@wallabyway.com
Ringo	Richardson	
dummy	email	test

We would see the following errors:



## 2.15 View User Progress

Permitted Roles: Admin, TA

Permitted accounts may check on a particular user's progress by selecting the View User's Quizzes button on the Users tab.

Review Student Quizzes:						
Show <input type="button" value="▼"/> entries						Search: <input type="text"/>
Student	Quiz Code	Attempted At	Time Spent	Score		
				Behaviours	Interpretation	
Jacob Marley	Cow004	2021-04-14 18:49:10	0:08	2 / 2	1	
Jacob Marley	Horse001	2021-04-14 18:49:23	0:05	0 / 2	1	
Jacob Marley	Horse001	2021-04-14 18:49:53	0:08	2 / 2	1	
Jacob Marley	Horse002	2021-04-14 18:49:36	0:06	1 / 2	1	
Jacob Marley	Horse002	2021-04-14 18:50:08	0:06	2 / 2	1	
Jacob Marley	Horse003	2021-04-14 18:50:28	0:10	2 / 2	0	
Showing 1 to 6 of 6 entries						Previous <input type="button" value="1"/> Next

From here they may click on a quiz code to see what the user selected as an answer for each attempt.

The screenshot shows a web-based application for reviewing a quiz. At the top, it says "Reviewing Quiz: Horse001 Attempt 1" and "Time Taken: 0:05". In the top right corner, it displays "Behaviours: 0/2 Interpretation: 1/1". Below this, there's a video player showing a video of a horse. A "Create A New Quiz" window is overlaid on the video player. The window has tabs for "Behaviours" and "Interpretation". Under "Behaviours", it says "You did not correctly select any behaviours." and lists "Kicking" and "Dancing". Under "Interpretation", it says "Your interpretation was correct" and shows a radio button next to "Angry" which is selected. At the bottom of the window, there are buttons for "Edit me...", "each skipped one", and "didn't expect that to happen".

## 2.16 Reset User Password

Permitted Roles: Admin, TA

Permitted accounts may manually reset a user's password if for whatever reason the user is unable to. They may do this by going to the "Users" page via the tab at the top right of the website, clicking on the "Edit User" button next to the user whose password they wish to reset, then clicking on the password reset option.

The screenshot shows a table of users on a website. The table has two columns: "Name" and "Role". There are two rows: one for "Paul" (Role: Arsenault) and one for "George" (Role: Gallant). To the right of the table, there are three buttons: "View User's Quizzes", "Edit User", and a dropdown menu. Below the table, there is a blue button labeled "Reset Paul's Password".

## 2.16.1 Successful Password Reset

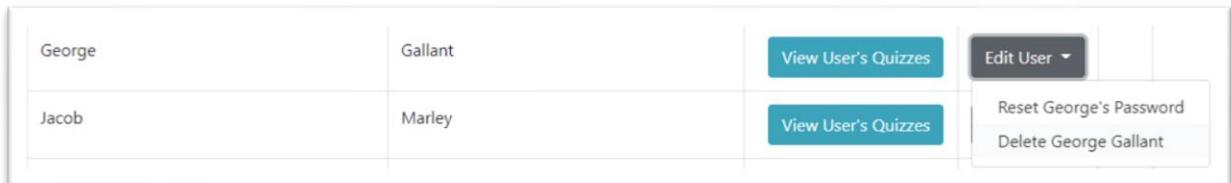
If the manual password reset was successful, the page will refresh, and a message will be displayed indicating that the user should have received a password reset email. The user will have 30 minutes before their reset link will expire.

The screenshot shows two parts of the Animal Behaviour Tool interface. The top part is a modal window titled 'Users' with a green message box containing the text 'User Paul Arsenault has been sent a password reset email.' The bottom part is a full-page view of a password reset email. The email header says 'Animal Behaviour'. The body starts with 'Hello!', followed by a message about receiving a password reset request. It includes a 'Reset Password' button, a note about the link expiring in 30 minutes, and a message if no action is taken. It ends with regards from 'Animal Behaviour'. A URL for manual entry is provided at the bottom. The footer of the email page says '© 2021 Animal Behaviour. All rights reserved.'

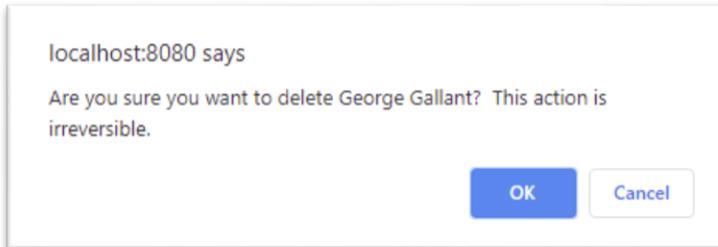
## 2.17 Delete User

Permitted Roles: Admin

Administrator accounts may delete a user, removing their account from the system. **Note:** attempts, scores, responses, etc. will NOT be deleted. They may do this by going to the “Users” page via the tab at the top right of the website, clicking on the “Edit User” button next to the user whose password they wish to reset, then clicking on the delete user option.



The administrator will receive a notification asking if they are absolutely certain that they want to proceed with deleting the selected user. Selecting OK will delete the user, but selecting Cancel will do nothing.



### 2.17.1 Successful User Deletion

If the deletion was successful, the page will refresh, and a message will be displayed indicating that the user was successfully removed from the system.

