

USER MANUAL

Animal Behaviour Tool

Student Edition

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

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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

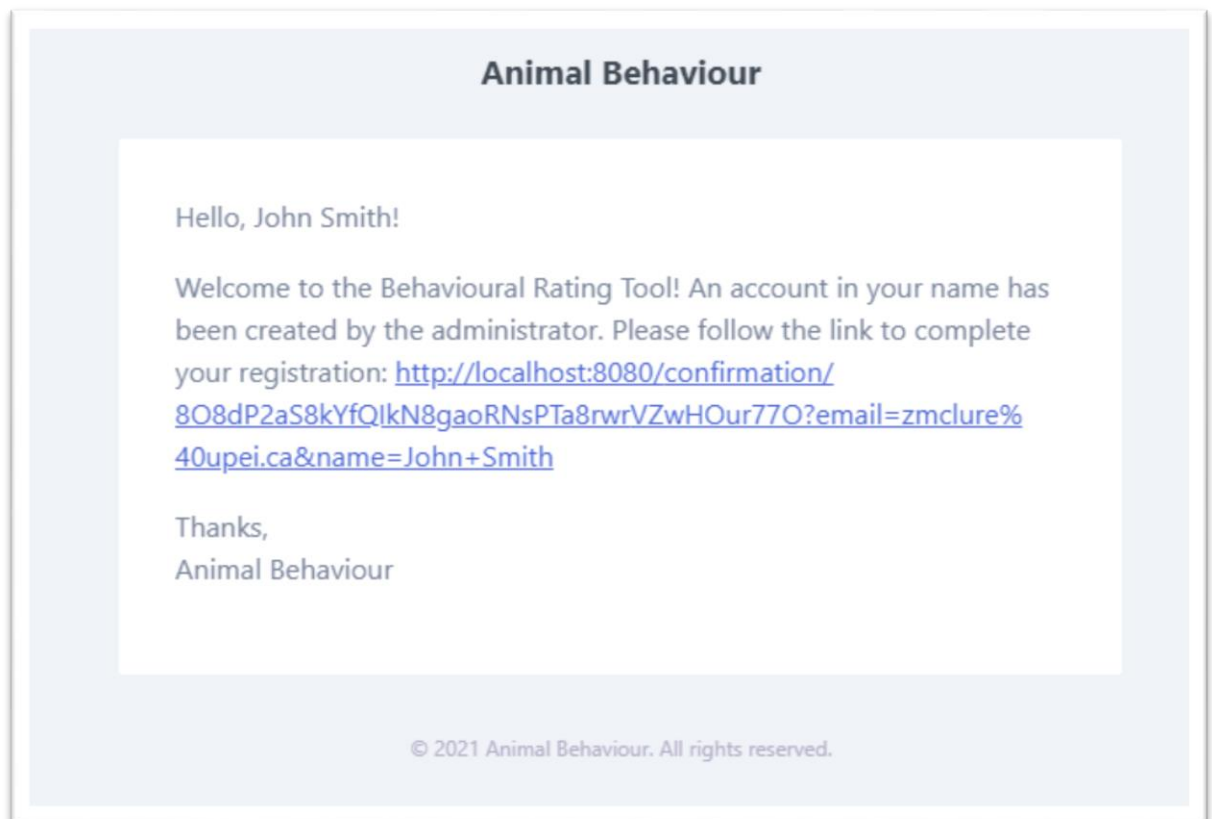
The Animal Behaviour Tool is available to those granted access by the system's administrator. Users will require a registered account and password to be able to access the application. There are four different types of accounts a user may be assigned as: admin, teacher assistant, expert, or student. 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 an orange header. Below the header is a form titled 'Activate Your Account'. The form contains the following elements: a 'Password' input field, a 'Confirm Password' input field, a dropdown menu labeled 'Select your anticipated grad year', and a section titled 'Please indicate how much previous experience you have with horses' with five radio button options: 'None', 'Beginner', 'Intermediate', 'Advanced', and 'Expert'. At the bottom of the form is a blue 'Create Account' button.

2.1.1 Successful Registration

You will be taken to the quizzes page.

The screenshot shows the top of a web page. It has an orange header bar with the word 'Quizzes' in white text on the right side. Below the header bar is a grey bar containing the text 'You are currently logged in as a student: John Smith'.

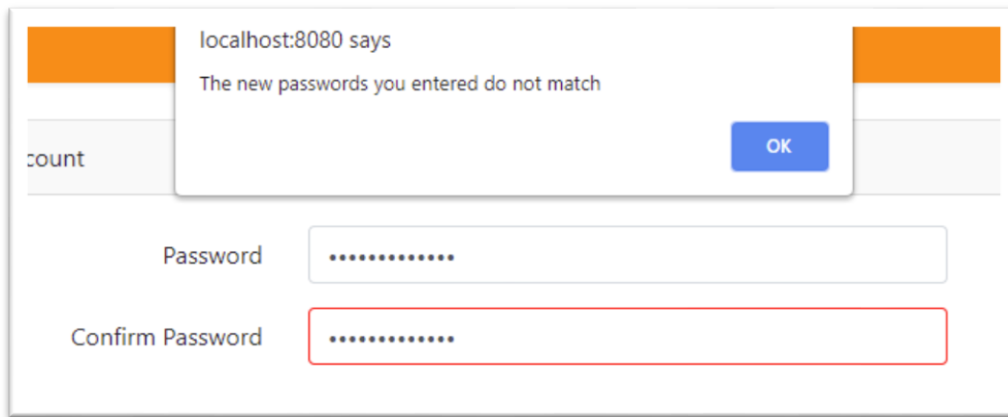
2.1.2 Invalid Password

Your password must follow the standards set by the website.

The screenshot shows a password input field with the label 'Password' and a blue border. Below the field is a yellow warning icon followed by the text: 'Password must have at least 8 characters. 1 upper case, 1 lower case, 1 number, and 1 special character'. The input field itself contains several dots, indicating a masked password.

2.1.3 Mismatching Passwords

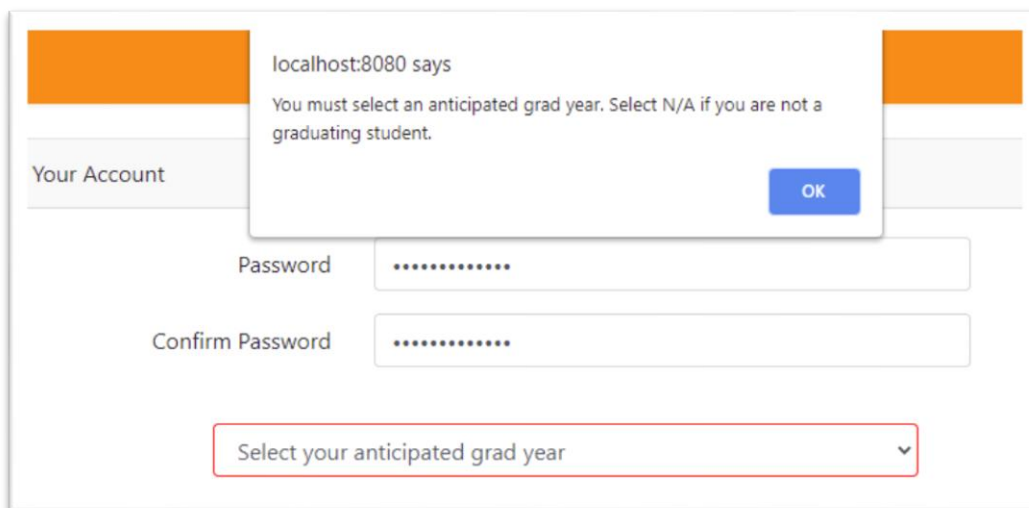
The “Password” and “Confirm Password” fields must match.



A screenshot of a web form titled "Your Account" with a sidebar menu containing "count". A modal dialog box is displayed in the center, titled "localhost:8080 says", with the message "The new passwords you entered do not match" and an "OK" button. Below the dialog, the "Password" and "Confirm Password" fields are visible, both containing masked text (dots). The "Confirm Password" field is highlighted with a red border, indicating it is the source of the error.

2.1.4 Empty Grad Year

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



A screenshot of a web form titled "Your Account" with a sidebar menu containing "Your Account". A modal dialog box is displayed in the center, titled "localhost:8080 says", with the message "You must select an anticipated grad year. Select N/A if you are not a graduating student." and an "OK" button. Below the dialog, the "Password" and "Confirm Password" fields are visible, both containing masked text (dots). At the bottom, a dropdown menu labeled "Select your anticipated grad year" is highlighted with a red border, indicating it is a required field.

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

The login page will be displayed.

Animal Behaviour

Login

E-Mail Address

Password

☐ Remember Me

Login

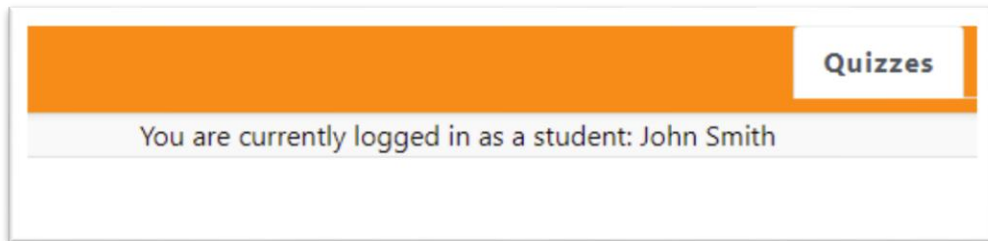
[Forgot Your Password?](#)

- 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.

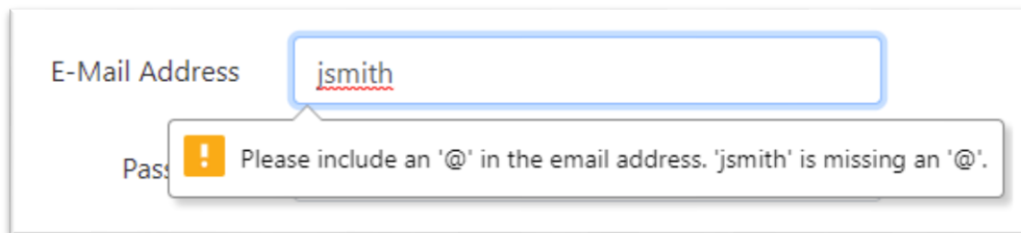
2.2.1 Successful Login

You will be taken to the quizzes page.



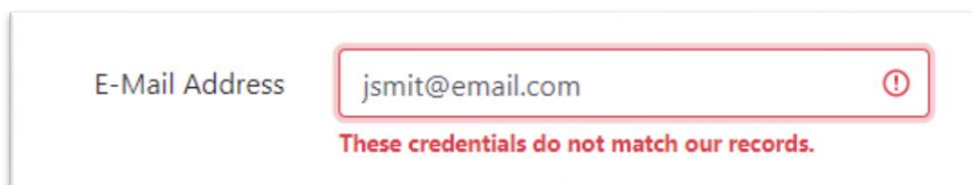
2.2.2 Not Using Email to Log In

You must use a whole email address to log in.



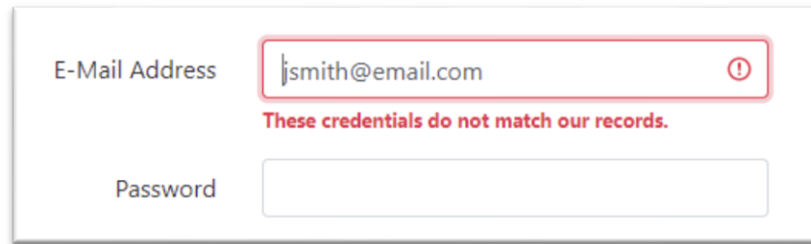
2.2.3 Invalid Email Address

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



2.2.4 Invalid Password

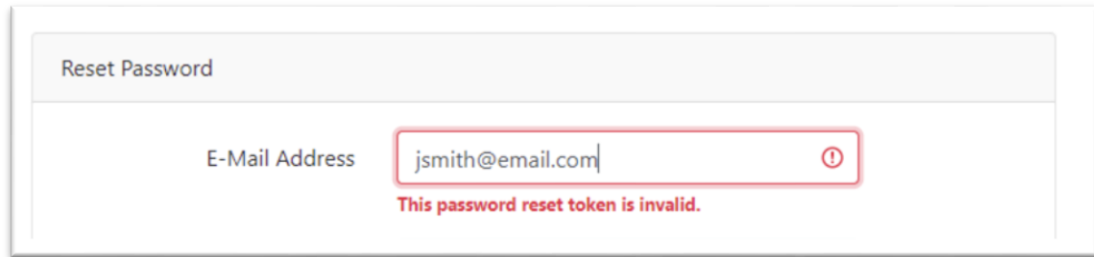
Incorrect passwords will also display the mismatched credentials message.



The screenshot shows a login form with two fields: 'E-Mail Address' and 'Password'. The 'E-Mail Address' field contains the text 'jsmith@email.com' and has a red border with a red exclamation mark icon. Below this field, a red error message reads: 'These credentials do not match our records.' The 'Password' field is empty.

2.2.5 Expired Password

Password reset requests will expire after 30 minutes.



The screenshot shows a 'Reset Password' form. It has a title bar 'Reset Password' and a field for 'E-Mail Address' containing 'jsmith@email.com'. The field has a red border and a red exclamation mark icon. Below the field, a red error message reads: 'This password reset token is invalid.'

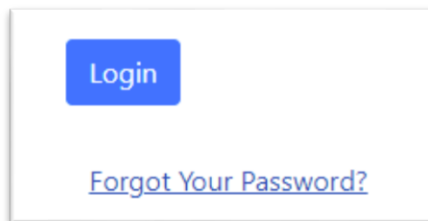
2.3 Forgot Your Password

Permitted Roles: All

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

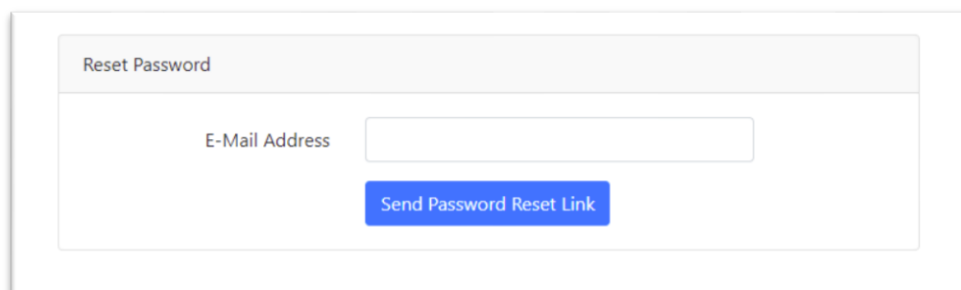
Visit the front page of the website animal-behaviour.ahs.upei.ca

Follow the link below the Login button:



The screenshot shows a blue 'Login' button and a blue underlined link 'Forgot Your Password?' below it.

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' form. It has a title bar 'Reset Password' and a field for 'E-Mail Address'. Below the field is a blue button labeled 'Send Password Reset Link'.

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

Animal Behaviour

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 first screenshot shows a 'Reset Password' form with three input fields: 'E-Mail Address' (containing 'jsmith@email.com'), 'Password', and 'Confirm Password'. A blue 'Reset Password' button is at the bottom. The second screenshot shows a green success message: 'Your password has been reset!'. Below this is an orange navigation bar with the text 'Animal Behaviour' and links for 'Quizzes', 'Review', 'Account', and 'Logout'. At the bottom of the bar, it says 'You are currently logged in as a student: John Smith'.

2.3.2 Not Using Email for Password Reset

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

The screenshot shows the 'Reset Password' form with the 'E-Mail Address' field containing 'jsmith'. Below the field is a yellow warning icon and a message: 'Please include an '@' in the email address. 'jsmith' is missing an '@'.'

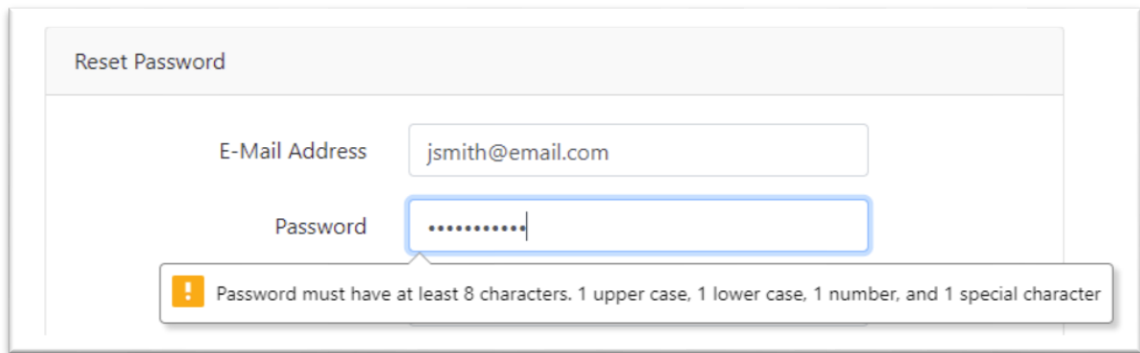
2.3.3 Incorrect Email Address

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

The screenshot shows the 'Reset Password' form with the 'E-Mail Address' field containing 'jsmith@email.com'. Below the field is a red error message: 'We can't find a user with that email address.' A blue 'Send Password Reset Link' button is at the bottom.

2.3.4 Invalid New Password

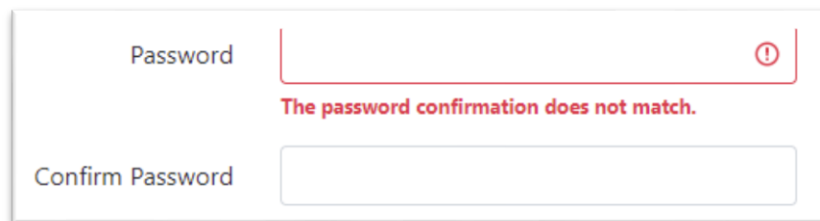
Your new password must follow the standards set by the website.



The image shows a 'Reset Password' form. It has two input fields: 'E-Mail Address' with the value 'jsmith@email.com' and 'Password' with masked characters '.....'. A blue border highlights the Password field. Below the fields is a yellow warning box with an exclamation mark icon and the text: 'Password must have at least 8 characters. 1 upper case, 1 lower case, 1 number, and 1 special character'.

2.3.5 New Password Mismatch

The "Password" and "Confirm Password" fields must match..



The image shows a form with two input fields: 'Password' and 'Confirm Password'. The 'Password' field has a red border and a red exclamation mark icon in the top right corner. Below the 'Password' field, the text 'The password confirmation does not match.' is displayed in red. The 'Confirm Password' field is 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 displays the 'Account' management interface. At the top, there is an orange navigation bar with four tabs: 'Quizzes', 'Review', 'Account' (which is highlighted), and 'Logout'. Below the navigation bar, the interface is divided into three main sections, each with a light gray header:

- Change Your Name:** Contains two input fields. The 'First Name' field is pre-filled with 'John', and the 'Last Name' field is pre-filled with 'Smith'.
- Change Your Email:** Contains three input fields. The 'Old Email' field is pre-filled with 'jsmith@email.com'. The 'New Email' and 'Confirm New Email' fields are currently empty.
- Change Your Password:** Contains three input fields. The 'Old Password', 'New Password', and 'Confirm New Password' fields are all currently empty.

At the bottom center of the form, there is a blue button labeled 'Save Changes'.

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

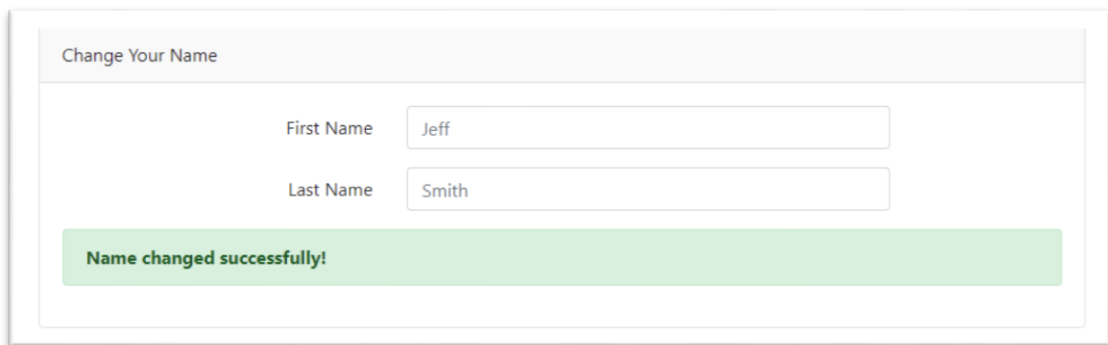
Users may change their name by selecting the “Account” tab on the top right of the screen, then fill out the fields in the Change Your Name section. Users may change their first name, last name, or both.



The screenshot shows a web form titled "Change Your Name". It contains two text input fields. The first field is labeled "First Name" and contains the text "John". The second field is labeled "Last Name" and contains the text "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.

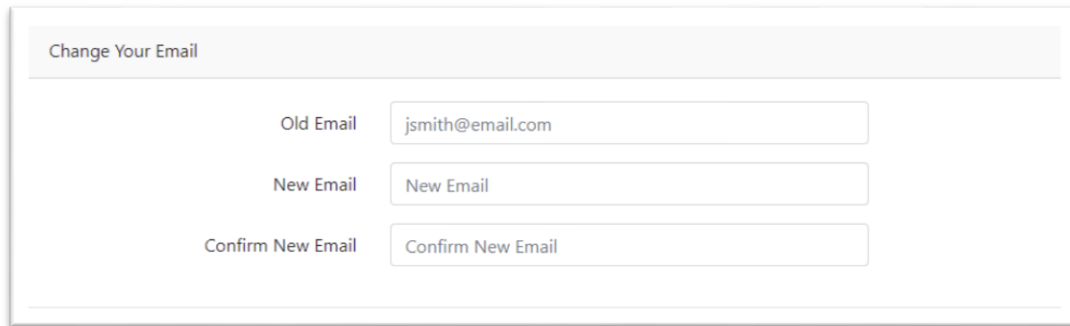


The screenshot shows the same "Change Your Name" form after a successful update. The "First Name" field now contains "Jeff", while the "Last Name" field remains "Smith". A green banner at the bottom of the form area displays the message "Name changed successfully!".

2.6 Change Your Email

Permitted Roles: All

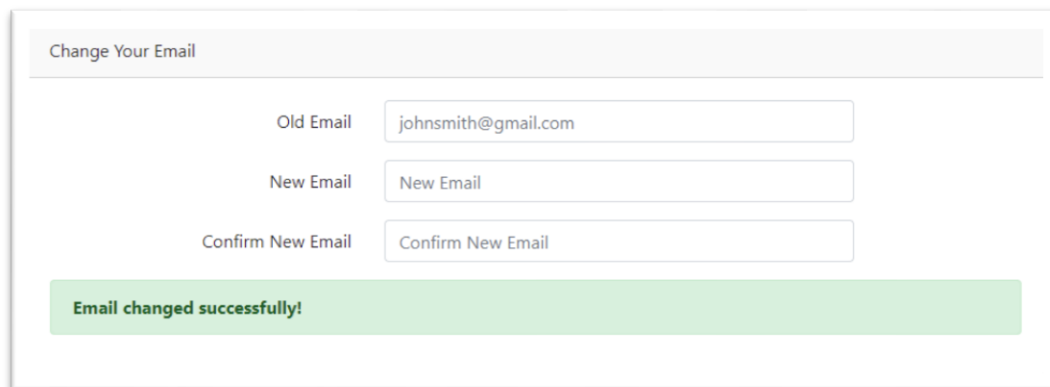
Users may change their email by selecting the “Account” tab on the top right of the screen, then fill out the fields in the Change Your Email section.



A screenshot of a web form titled "Change Your Email". The form contains three input fields: "Old Email" with the placeholder text "jsmith@email.com", "New Email" with the placeholder text "New Email", and "Confirm New Email" with the placeholder text "Confirm New Email".

2.6.1 Successful Email Change

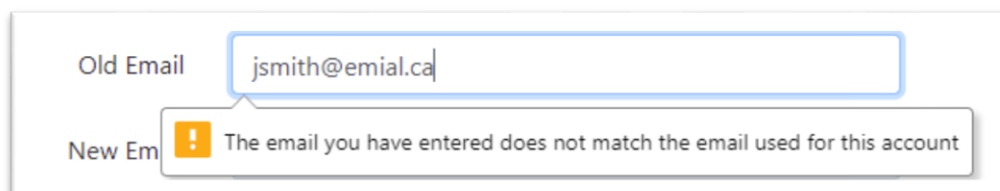
A success message will appear upon changing your email address. You are also able to see your new email as a placeholder in the Old Email field.



A screenshot of the "Change Your Email" form after a successful email change. The "Old Email" field now contains "johnsmith@gmail.com". Below the form, a green banner 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.



A screenshot of the "Change Your Email" form showing an error. The "Old Email" field contains "jsmith@emial.ca" (note the typo). A red error message box with an exclamation mark icon is displayed below the "New Email" field, stating: "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 web application interface with a top navigation bar containing 'izzes', 'Review', and 'Account' tabs. A modal dialog box is open, displaying an error message from 'localhost:8080' stating 'The new emails you entered do not match'. The dialog has an 'OK' button. Below the dialog, the 'Change Your Name' section contains input fields for 'First Name' (John) and 'Last Name' (Smith). The 'Change Your Email' section contains three input 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, indicating it is the source of the error.

2.6.4 Empty New Email Fields

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

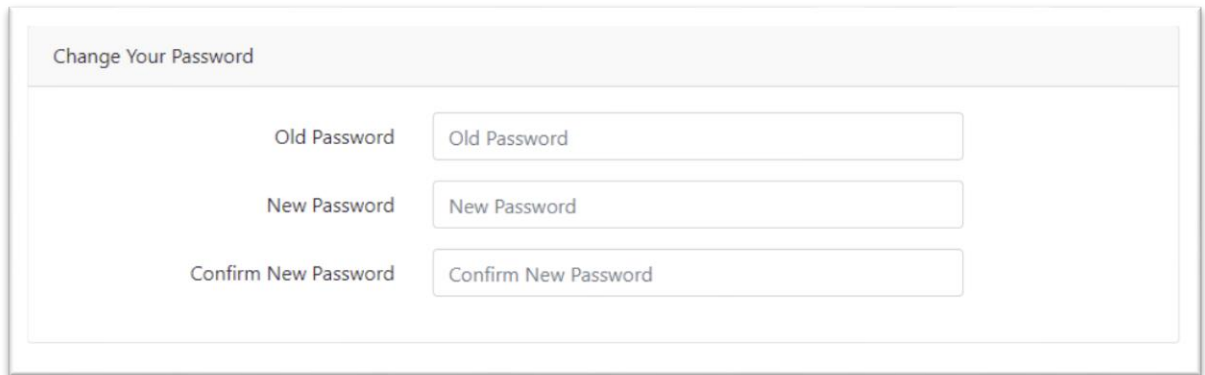
The screenshot shows a modal dialog box with the text 'localhost:8080 says' and 'Please enter a new email or remove your old email'. There is an 'OK' button at the bottom right of the dialog.

The screenshot shows the 'Change Your Email' form. The 'Old Email' field contains 'jsmith@email.com'. The 'New Email' field is empty and highlighted with a red border. The 'Confirm New Email' field is also empty and highlighted with a red border.

2.7 Change Your Password

Permitted Roles: All

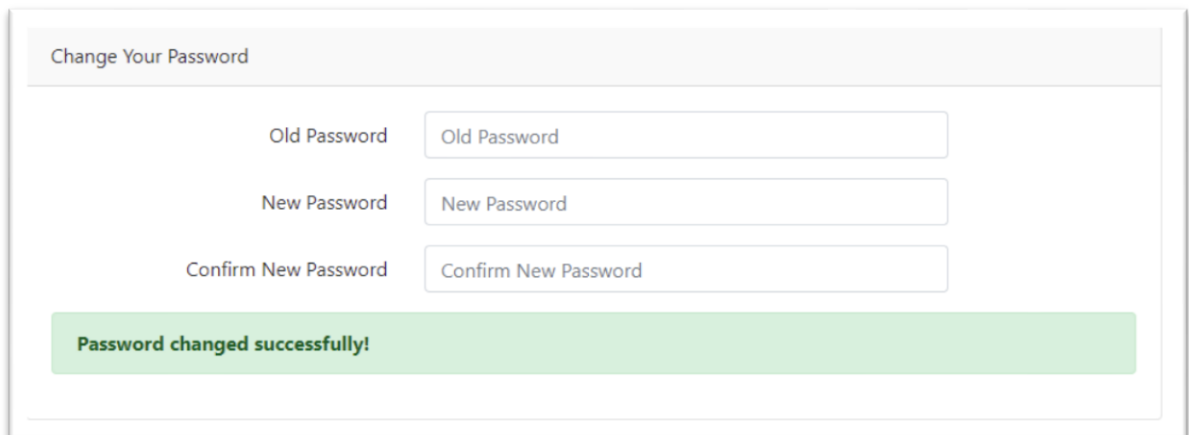
Users may change their email by selecting the “Account” tab on the top right of the screen, then fill out the fields in the Change Your Email section.



The screenshot shows a web form titled "Change Your Password" in a light gray header. Below the header, there are three rows of labels and input fields. The first row has the label "Old Password" and an input field containing the text "Old Password". The second row has the label "New Password" and an input field containing the text "New Password". The third row has the label "Confirm New Password" and an input field containing the text "Confirm New Password".

2.7.1 Successful Password Change

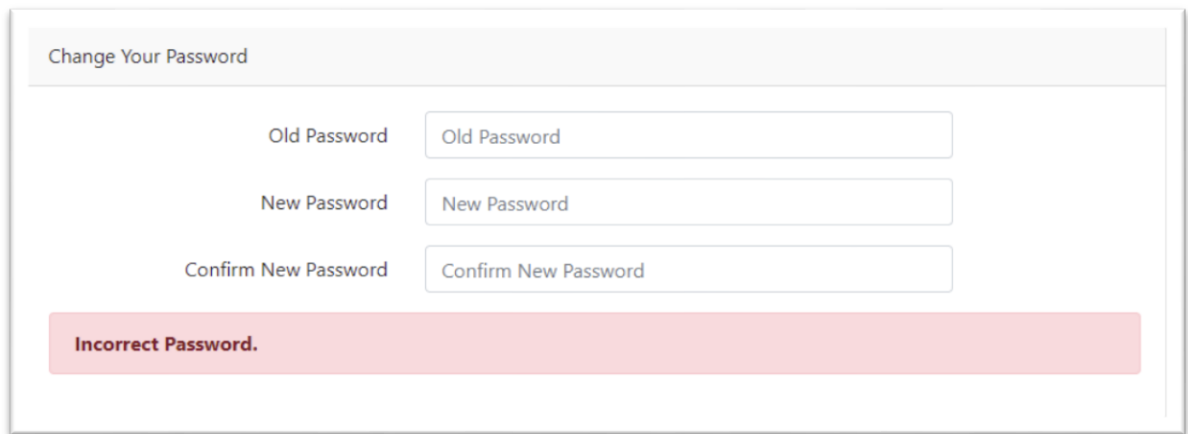
A success message will appear upon changing your password.



This screenshot shows the same "Change Your Password" form as above, but with an additional green success message box at the bottom. The message box contains the text "Password changed successfully!". The input fields for "Old Password", "New Password", and "Confirm New Password" are still visible and contain the same placeholder text.

2.7.2 Incorrect Current Password

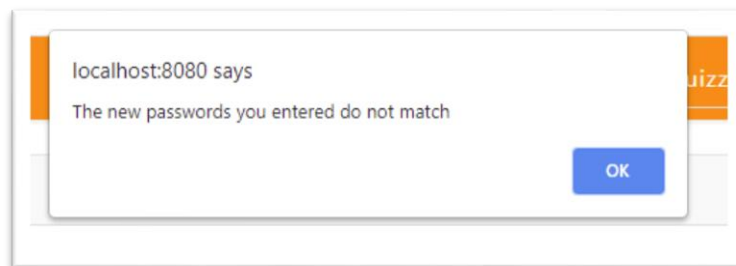
An error message will appear if the password you entered in the “Old Password” field does not match your current password.



The screenshot shows a web form titled "Change Your Password". It contains three input fields: "Old Password", "New Password", and "Confirm New Password". Below the fields, a red error message box displays the text "Incorrect Password.".

2.7.3 Mismatching New Password

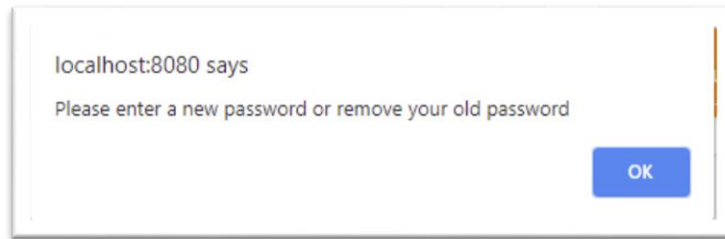
An error message will appear if the passwords you entered in the “New Password” and “Confirm New Password” fields do not match.



The screenshot shows the "New Password" and "Confirm New Password" fields. Both fields contain masked text (dots). The "Confirm New Password" field has a red border, indicating an error.

2.7.4 Empty New Password Fields

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



Change Your Password

Old Password

New Password

Confirm New Password

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.

Animal Behaviour **Quizzes** [Review](#) [Account](#) [Logout](#)

You are currently logged in as a student: John Smith

Quizzes

Show entries Search:

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

Showing 1 to 4 of 4 entries

Previous **1** Next

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.

Quizzes

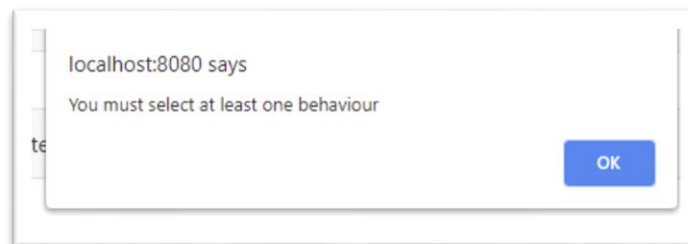
You got 2/2 on Horse001. You have chosen the correct interpretation.

Show entries Search:

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.



Behaviours

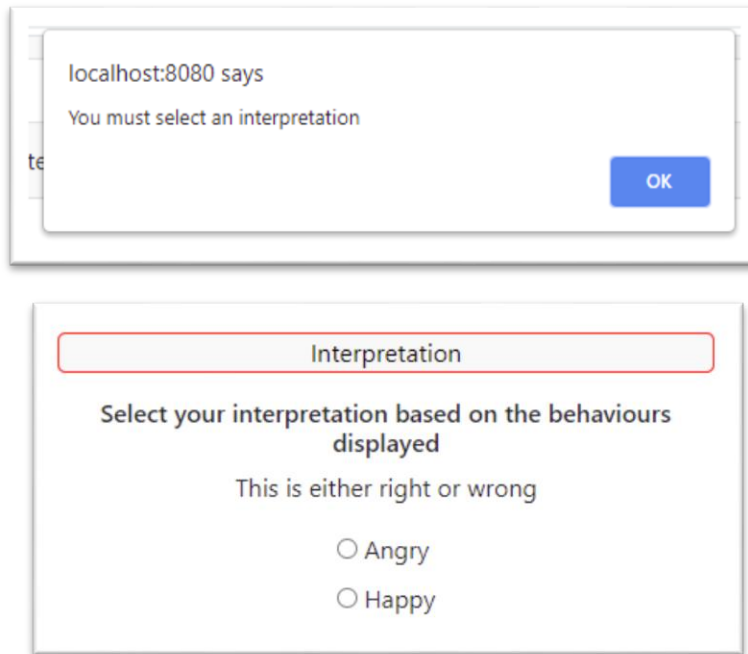
Select all the behaviours you see in the video

+1 Right answers
-1 Wrong answers

☐ Kicking
☐ Dancing

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.



localhost:8080 says
You must select an interpretation
OK

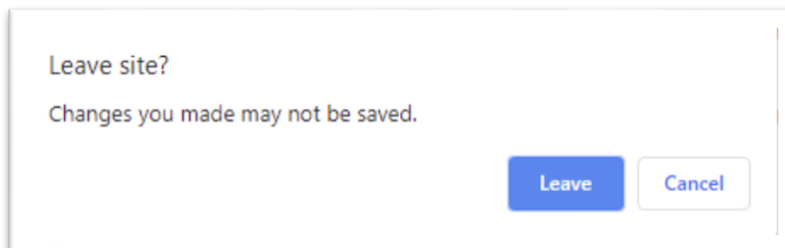
Interpretation

Select your interpretation based on the behaviours displayed
This is either right or wrong

☐ Angry
☐ Happy

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.



Leave site?
Changes you made may not be saved.

Leave Cancel

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.

Animal Behaviour

Quizzes Review Account Logout

Review My Quizzes

Show entries Search:

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

Showing 1 to 3 of 3 entries

Previous 1 Next

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

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

Behaviours

You correctly selected all behaviours.

☒ Mooing Angrily

☐ Mooing Happily

Interpretation

Your interpretation was correct

☒ Angry

☐ Happy