

ENSF 608 Final Report - Group 248

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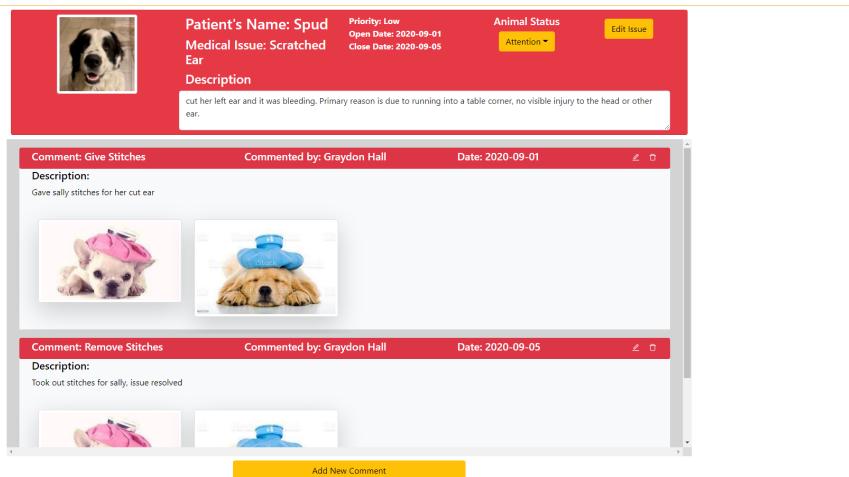
Conceptual Database Design (33.33% of 608 project grade, 10% of course):

Note that our EER diagram can be found in a separately submitted PDF. The key design decisions and assumptions are listed in point form below:

- The ROLE table which is related to USER through the ROLE_FOR_USER relationship represents the different roles a user may have (ex. Teacher, admin, etc). For this project, the ROLE only affects authentication in the front end of the application, and therefore all this table contains is the name of the role, the role_id, and the user_id. The role is used to limit things such as making it so only an admin can add and edit users, etc.
- CLASSROOM_BOOKINGS has 3 users participate in the relationship and one animal, due to the fact that the user_id of the teacher who made the request is stored, along with the admin and technician user_id who approved/reject the booking.
- Description of treatment process (as it pertains to the database)
 - The process for handling animal medical issues is as follows
 - First, an entry will be added to the MEDICAL_ISSUES table. This will symbolize the overall medical issue (ex. A dog breaking its leg, or requiring a vaccination)
 - On the front end, this is done via the animal's profile:

The screenshots show a web application for managing animal medical issues. The top screenshot shows the main profile page for an animal named 'Spud'. It displays basic information like 'Animal Type: Dog' and 'Last Checkup: 2021-10-01'. Below this, there are tabs for 'Animal Info', 'Medical Issues', 'Weights', and 'Images'. Under 'Medical Issues', there is a list of three entries: 'Scratched Ear' (severity Low, closed 2020-09-05), 'Broken Leg' (severity Moderate, active), and 'Cataract in Left Eye' (severity High, active). A red arrow points from the text 'On the front end, this is done via the animal's profile:' to the 'Create a new Medical Issue' button at the bottom of this section. The bottom screenshot shows a modal dialog titled 'New Medical Issue' where a new issue can be entered. The fields include 'Medical Issue' (with placeholder 'Enter Medical Issue'), 'Severity' (with dropdown menu 'Select Severity'), 'Issue Start Date' (with date input 'yyyy-mm-dd'), 'Issue Close Date' (with date input 'yyyy-mm-dd'), and 'Additional Description' (with a text area). At the bottom of the modal are 'Save Medical Issue' and 'Close' buttons.

- After the MEDICAL_ISSUE has been created, comments may be added to it. When a comment is created, it is added to the COMMENT table. Any images associated with it are held in the COMMENT_IMAGES table. The user who writes the comment is tracked via the WRITES relationship.
- For a one time issue like a vaccination, this issue would only involve one comment. However, for a more complex issue (such as a broken leg requiring multiple visits from multiple people), multiple comments will exist.
- *Prescription and treatment details are all held within the comments*
- A visualization of what this looks like in terms of the front end is seen below.



- ANIMAL_WEIGHT is held in a table that tracks the animals weight over time.
- For the purpose of Dummy Data in this Project, no Animal specific attributes were found, so therefore no specialization in the ANIMAL table was required. However this could be easily added in the future if required.

NOTE: more information on how every requirement is satisfied (regarding the front end and the database) can be found in Appendix A.

Logical Database Design and Creation Code (33.33% of 608 project grade, 10% of course):

The relational diagram is attached as a separate PDF (with the EER diagram). The SQL file is attached as a separate script also (one script to populate the database, and one to run our custom queries required for the assignment).

Query Code and Video Demonstration (33.33% of 608 project grade, 10% of course):

The queries for this section can be found in the attached SQL file in the dropbox. This document here is attached as a reference, so all the queries and results can be easily viewed.

1. Show all tables and explain how they are related to one another (keys, triggers, etc.)

This is left to the video and by inspecting the SQL files

2. A basic retrieval query

```
# 2) A basic retrieval query  
# Show all our users  
SELECT * FROM user;
```

	user_id	first_name	last_name	email	phone	password	blocked
1	1	Jared	Kraus	jared@gmail.com	403-403-1111	\$2a\$10\$NvpSu0z0Bo9g0V8fQZcRuZW4uBeRy71fIBykGGC1SZEwpi0ste8m	0
2	2	Deylin	Yiao	deylin@gmail.com	403-403-2222	\$2a\$10\$6p2AAfe4N3nBH.ryM3X8q.GioiaUJP8Tux20x3BT4ZITEULyMN0G	0
3	3	Graydon	Hall	graydon@gmail.com	403-403-3333	\$2a\$10\$px44AetKRxJczf0R5EtfvuVqWzpH2m90Y8Ecjnaesdc0DzWVj1rpG	0
4	4	Karen	Kares	karen@gmail.com	403-403-4444	\$2a\$10\$NvpSu0z0Bo9g0V8fQZcRuZW4uBeRy71fIByk6GC1SZEwpi0ste8m	0
5	5	Susan	Sue	susan@gmail.com	403-403-5555	\$2a\$10\$6p2AAfe4N3nBH.ryM3X8q.GioiaUJP8Tux20x3BT4ZITEULyMN0G	0
6	6	Heather	Heat	heather@gmail.com	403-403-6666	\$2a\$10\$px44AetKRxJczf0R5EtfvuVqWzpH2m90Y8Ecjnaesdc0DzWVj1rpG	0

3. A retrieval query with ordered results

```
# 3) A retrieval query with ordered results  
# Show our animals, order by their birthdate  
SELECT animal_name, animal_type, birth_date  
FROM animal  
ORDER BY birth_date;
```

	animal_name	animal_type	birth_date
1	Ralph6	Cat	2015-04-14
2	Ralph7	Cat	2016-05-14
3	Ralph2	Cat	2016-11-14
4	Jimmy4	Dog	2017-05-14
5	Ralph8	Cat	2017-06-14
6	Jimmy8	Dog	2017-09-14
7	Ralph1	Cat	2017-10-14

4. A nested retrieval query

```
# 4) A nested retrieval query
# Select name, type, status of all animals who have an ongoing medical issue
SELECT animal_name, animal_type, status
FROM animal
WHERE animal_id IN (
    SELECT animal_id
    FROM medical_issues
    WHERE close_date IS NOT NULL
);
```

	animal_name	animal_type	status
1	Spudzy	Dog	Attention
2	Jimmy2	Dog	Healthy
3	Jimmy5	Dog	Healthy
4	Jimmy6	Dog	Urgent
5	Ralph1	Cat	Healthy
6	Ralph2	Cat	Healthy
7	Ralph5	Cat	Healthy
8	Ralph6	Cat	Urgent

5. A retrieval query using joined tables

```
# 5) A retrieval query using joined tables
# Get the animals name, and their weight over time.
SELECT a.animal_name, w.date ,w.weight
FROM ANIMAL AS a
LEFT JOIN WEIGHT AS w
ON a.animal_id = w.animal_id;
```

	animal_name	date	weight
1	Spudzy	2021-09-01 00:00:00	85
2	Spudzy	2021-10-01 00:00:00	95
3	Spudzy	2021-11-01 00:00:00	100
4	Spudzy	2021-12-01 00:00:00	110
5	Jimmy2	2021-09-01 00:00:00	22
6	Jimmy2	2021-10-01 00:00:00	23
7	Jimmy2	2021-11-01 00:00:00	24
8	Jimmy2	2021-12-01 00:00:00	25

6. An update operation with any necessary triggers

Note: this first operation updates an animal's name, and has no necessary triggers (before on left, after on right)

```
# 6) An update operation with any necessary triggers
SELECT animal_name FROM ANIMAL WHERE animal_id=1; # Prior to update

UPDATE ANIMAL
SET animal_name = "Spudzy"
WHERE animal_id = 1;

SELECT animal_name FROM ANIMAL WHERE animal_id=1; # After update
```

	animal_name
1	Spud

	animal_name
1	Spudzy

This second operation attempts to update an Animal's ID, which would violate many foreign key constraints. Since this is non-desirable, our database will throw an error to disallow this operation

```

49  # KEY POINT: based on relational integrity, if you try and update a primary key,
50  # an error will be thrown disallowing the operation
51  SELECT animal_name, animal_id FROM ANIMAL WHERE animal_id=1; # Prior to update
52
53
54  # as discussed above, running this will produce an error (uncomment to test if desired)
55  UPDATE ANIMAL
56  SET animal_id = 5
57  WHERE animal_id = 1;
58
59  SELECT animal_name, animal_id FROM ANIMAL WHERE animal_id=1; # After to update
60
61
62
63  # 7) A deletion operation with any necessary triggers
64
65 [23000][1451] Cannot delete or update a parent row: a foreign key constraint fails ('vet_db_group248final'.classroom_bookings', CONSTRAINT
'classroom_bookings_ibfk_1' FOREIGN KEY (animal_id) REFERENCES 'animal' (animal_id) ON DELETE CASCADE) Stop Retry Ignore Ignore All X

```



7. A deletion operation with any necessary triggers

(before and after picture shown, with user ID = 1 now deleted)

```

# 7) A deletion operation with any necessary triggers
# we delete a user, and see evidence that rows corresponding to that user in the ROLES
# table are now gone.
SELECT * FROM ROLES; # before

DELETE FROM USER
WHERE user_id=1;

SELECT * FROM ROLES; # before

```

	role_id	user_id	name
1	1	1	ADMIN
2	2	2	TEACHING_TECH
3	3	3	HEALTH_TECH
4	4	4	CARE_ATTENDANT
5	5	5	STUDENT
6	6	6	ADMIN

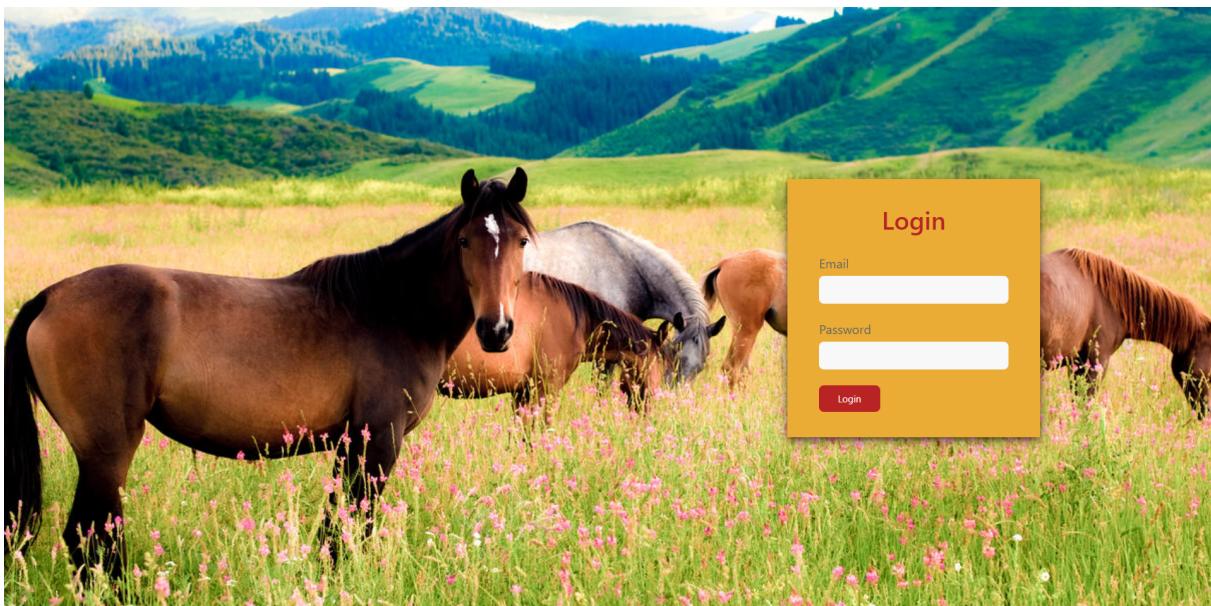
	role_id	user_id	name
1	2	2	TEACHING_TECH
2	3	3	HEALTH_TECH
3	4	4	CARE_ATTENDANT
4	5	5	STUDENT
5	6	6	ADMIN

Appendix A - Requirements and Functionalities

The fulfillment of each requirement specified on page 4 of the Final Design Project document is given in this appendix.

All users:

All the users must log in to the web application. Each user has a unique email they can use along with their password to login.



Admin

The following tasks are discussed below:

- Can add users.
- Can edit users.
- Can block users.



Photo	First Name	Last Name	Phone Number	Email	User Type	
	Jared	Kraus	403-403-1111	jared@gmail.com	ADMIN	<button>Edit</button>
	Deylin	Yiao	403-403-2222	deylin@gmail.com	TEACHING_TECH	<button>Edit</button>
	Graydon	Hall	403-403-3333	graydon@gmail.com	HEALTH_TECH	<button>Edit</button>
	Karen	Kares	403-403-4444	karen@gmail.com	CARE_ATTENDANT	<button>Edit</button>
	Susan	Sue	403-403-5555	susan@gmail.com	STUDENT	<button>Edit</button>
	Heather	Heat	403-403-6666	heather@gmail.com	ADMIN	<button>Edit</button>

[Add User](#)

Admin are able to add, edit and block any users in the database using the manager users page. Only admin are able to pull and update this data using both front end and back end filters. When an admin hits the edit button they are able to edit or block a user using the Modal that appears.

Managing User: Jared Kraus

First Name	<input type="text" value="Jared"/>
Last Name	<input type="text" value="Kraus"/>
Phone	<input type="text" value="403-403-1111"/>
Email	<input type="text" value="jared@gmail.com"/>
Role (Drop down)	<input type="text" value="Admin"/>
<input checked="" type="checkbox"/> Block User	

[Submit Request](#) [Close](#)

- Can monitor an animal's status.

Profile Photo	Animal Name	Animal Type	Issue Name	Animal Status	Issue Status	Navigate To	
		Filter Criteria		Filter Criteria	Filter Criteria	Profile	Medical Issue
	Spud	Dog	Broken Leg	Attention	Moderate	Profile	Medical Issue
	Spud	Dog	Cataract in Left Eye	Attention	High	Profile	Medical Issue
	Jimmy2	Dog	Infected Tooth	Healthy	Moderate	Profile	Medical Issue
	Jimmy3	Dog	Broken Ankle	Healthy	High	Profile	Medical Issue
	Jimmy4	Dog	Ingrown claw	Attention	Moderate	Profile	Medical Issue
	Jimmy5	Dog	Broken Leg	Healthy	Moderate	Profile	Medical Issue
	Jimmy5	Dog	Cataract in Left Eye	Healthy	High	Profile	Medical Issue
	Jimmy6	Dog	Infected Tooth	Urgent	Moderate	Profile	Medical Issue
	Jimmy7	Dog	Broken Ankle	Healthy	High	Profile	Medical Issue
	Jimmy8	Dog	Ingrown claw	Attention	Moderate	Profile	Medical Issue

Admin can monitor animal statuses using the status dashboard. Animal statuses are held in the ANIMAL table and the MEDICAL_ISSUES table.

- Can review comments.

Patient's Name: Spud Priority: Low
Medical Issue: Scratched Ear Open Date: 2020-09-01 Close Date: 2020-09-05 Animal Status: Attention [Edit issue](#)

Description: cut her left ear and it was bleeding. Primary reason is due to running into a table corner, no visible injury to the head or other ear.

Comment: Give Stitches Commented by: Graydon Hall Date: 2020-09-01

Description: Gave sally stitches for her cut ear

Comment: Remove Stitches Commented by: Graydon Hall Date: 2020-09-05

Description: Took out stitches for sally, issue resolved

[Add New Comment](#)

Admin can review animal comments in the medical issue page. Comments are held in the COMMENT table, as shown on the EER diagram

Animal Care Attendant

- **Can take photos of animals and upload them.**

This can be done via the images tab on the animal's profile for general images, or in a comment on a medical issue, for a picture specific to a given issue. Images added as profile images are added to the ANIMAL_PROFILE_IMAGES table, while Images added to comments are added to the COMMENT_IMAGES table

The screenshot displays two separate sections of the software interface, each showing a different animal's profile and a comment section with attached images.

Top Section (Profile View):

- Animal Info:** Spud, Animal Type: Dog, Last Checkup: 2021-10-01, Request Visit button.
- Animal Status:** Attention.
- Images:** A grid titled "Profile Pictures" containing five images of a black and white dog in various poses.
- Add Profile Photos:** A yellow button at the bottom of the image grid.

Bottom Section (Medical Issue View):

- Patient's Name:** Spud
- Medical Issue:** Scratched Ear
- Description:** cut her left ear and it was bleeding. Primary reason is due to running into a table corner, no visible injury to the head or other ear.
- Priority:** Low
- Open Date:** 2020-09-01
- Close Date:** 2020-09-05
- Animal Status:** Attention
- Edit Issue:** button

Comment Section:

- Comment:** Remove Stitches
- Commented by:** Graydon Hall
- Date:** 2020-09-05
- Description:** Took out stitches for sally, issue resolved
- Images:** Two small images of dogs wearing Elizabethan collars (cone hats) - one pink, one blue.
- Add New Comment:** Yellow button at the bottom.

- Can request treatment from technicians.

This is done by creating a new medical issue. This open issue will then appear in the animal status dashboard, and will thus be seen by technicians. When this process occurs, a new row is added to the MEDICAL_ISSUE table. It will have a closed_date value of null, which causes it to show up in the Animal Statuses Dashboard.


[Home](#) [Animal Statuses](#) [Animal Bookings](#) [Profile](#) [Log Out](#)

Spud

Animal Type: Dog
Last Checkup: 2021-10-01

[Request Visit](#)

Animal Info		Medical Issues	Weights	Images
Scratched Ear	Low	Closed: 2020-09-05		
Broken Leg	Moderate	Active		
Cataract in Left Eye	High	Active		
Create a new Medical Issue				

Spud

New Medical Issue

Medical Issue: Enter Medical Issue

Severity: Select Severity

Issue Start Date: yyyy-mm-dd

Issue Closed
Issue Close Date: yyyy-mm-dd

Additional Description:

[Save Medical Issue](#) [Close](#)

Animal Status	
Attention	Low
	Closed: 2020-09-05
	Moderate
	Active
	High
	Active

Spud

Profile Photo	Animal Name	Animal Type	Issue Name	Animal Status	Issue Status	Animal Location	Navigate To
	Spud	Dog	Broken Leg	Attention	Moderate	Barn A	Profile Medical Issue
	Spud	Dog	Cataract in Left Eye	Attention	High	Barn A	Profile Medical Issue
	Jimmy2	Dog	Infected Tooth	Healthy	Moderate	Barn A	Profile Medical Issue
	Jimmy3	Dog	Broken Ankle	Healthy	High	Barn A	Profile Medical Issue
	Jimmy4	Dog	Ingrown claw	Attention	Moderate	Barn A	Profile Medical Issue
	Jimmy5	Dog	Broken Leg	Healthy	Moderate	Barn B	Profile Medical Issue
	Jimmy5	Dog	Cataract in Left Eye	Healthy	High	Barn B	Profile Medical Issue
	Jimmy6	Dog	Infected Tooth	Urgent	Moderate	Barn B	Profile Medical Issue
	Jimmy7	Dog	Broken Ankle	Healthy	High	Barn B	Profile Medical Issue
	Jimmy8	Dog	Ingrown claw	Attention	Moderate	Barn B	Profile Medical Issue

1 2 3 >

- Can change animals' status.

This is done via this button here on the Animal's profile. When changed, the status column is updated for this animal in the ANIMAL table

- Can update daily status and treatment.

The issue status is updated via the modal that pops up via the “Edit Issue” button, and the treatment is updated by either adding a new comment, or editing a previous comment if required. This updates the row in the MEDICAL_ISSUE table, and also either adds/edits a row in the COMMENT table

- Can alert disease and problems (location).

This is done via the animal status dashboard. The location of every medical issue is shown, via the location attribute in the ANIMAL table

Profile Photo	Animal Name	Animal Type	Issue Name	Animal Status	Issue Status	Animal Location	Navigate To	
		Filter Criteria		Filter Criteria	Filter Criteria		Profile	Medical Issue
	Spud	Dog	Broken Leg	Attention	Moderate	Barn A	Profile	Medical Issue
	Spud	Dog	Cataract in Left Eye	Attention	High	Barn A	Profile	Medical Issue
	Jimmy2	Dog	Infected Tooth	Healthy	Moderate	Barn A	Profile	Medical Issue
	Jimmy3	Dog	Broken Ankle	Healthy	High	Barn A	Profile	Medical Issue
	Jimmy4	Dog	Ingrown claw	Attention	Moderate	Barn A	Profile	Medical Issue
	Jimmy5	Dog	Broken Leg	Healthy	Moderate	Barn B	Profile	Medical Issue
	Jimmy5	Dog	Cataract in Left Eye	Healthy	High	Barn B	Profile	Medical Issue
	Jimmy6	Dog	Infected Tooth	Urgent	Moderate	Barn B	Profile	Medical Issue
	Jimmy7	Dog	Broken Ankle	Healthy	High	Barn B	Profile	Medical Issue
	Jimmy8	Dog	Ingrown claw	Attention	Moderate	Barn B	Profile	Medical Issue

Animal Health Technicians

- Can diagnose and prescribe for them.

Diagnosis and prescription are done by creating a new medical issue, and adding comments to it as required via the animal's profile. When this is done, data is added to the MEDICAL_ISSUE and COMMENT tables.

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FACULTY OF VETERINARY MEDICINE

Home Animal Statuses Animal Bookings Profile Log Out

Spud

Animal Type: Dog
Last Checkup: 2021-10-01

Request Visit

Animal Status: Attention

Animal Info Medical Issues Weights Images

Scratched Ear Low
Closed: 2020-09-05

Broken Leg Moderate
Active

Cataract in Left Eye High
Active

Create a new Medical Issue

↑

Patient's Name: Spud **Priority:** Low
Medical Issue: Scratched Ear **Open Date:** 2020-09-01
Close Date: 2020-09-05 **Animal Status:** Attention

Edit Issue

Comment: Give Stitches **Commented by:** Graydon Hall **Date:** 2020-09-01

Description:
Gave sally stitches for her cut ear

Comment: Remove Stitches **Commented by:** Graydon Hall **Date:** 2020-09-05

Description:
Took out stitches for sally, issue resolved

Add New Comment

↖

- Can change animals' status.

This is done via this button on the animal's profile. When this occurs, the status column is updated in the ANIMAL table for this animal

The screenshot shows a red header with the name 'Spud'. Below it is a photo of a dog. To the right of the photo, there is an 'Animal Status:' section with a yellow button labeled 'Attention'. The main content area has tabs for 'Animal Info', 'Medical Issues', 'Weights', and 'Images'. Under 'Medical Issues', there is a table with three rows:

Scratched Ear	Low
Broken Leg	Moderate Active
Cataract in Left Eye	High Active

At the bottom of the table is a yellow button labeled 'Create a new Medical Issue'.

- Can monitor animal status.

The animal's status is monitored either via the status button on their profile (shown in previous point), or using the animal status dashboard, which shows the status of every individual medical issue (low, moderate, high) which is stored in the INDIVIDUAL_MEDICAL_ISSUE table, and all the animal statuses (Healty, Attention, Urgent) which is stored in the ANIMAL table

The screenshot shows a dashboard with the University of Calgary Faculty of Veterinary Medicine logo at the top left. At the top right are links for Home, Animal Statuses, Animal Bookings, Profile, and Log Out. The main content is a table titled 'Animal Status' with columns: Profile Photo, Animal Name, Animal Type, Issue Name, Animal Status, Issue Status, Animal Location, and Navigate To. The table contains 10 rows of data:

Profile Photo	Animal Name	Animal Type	Issue Name	Animal Status	Issue Status	Animal Location	Navigate To
	Spud	Dog	Broken Leg	Attention	Moderate	Barn A	Profile Medical Issue
	Spud	Dog	Cataract in Left Eye	Attention	High	Barn A	Profile Medical Issue
	Jimmy2	Dog	Infected Tooth	Healthy	Moderate	Barn A	Profile Medical Issue
	Jimmy3	Dog	Broken Ankle	Healthy	High	Barn A	Profile Medical Issue
	Jimmy4	Dog	Ingrown claw	Attention	Moderate	Barn A	Profile Medical Issue
	Jimmy5	Dog	Broken Leg	Healthy	Moderate	Barn B	Profile Medical Issue
	Jimmy5	Dog	Cataract in Left Eye	Healthy	High	Barn B	Profile Medical Issue
	Jimmy6	Dog	Infected Tooth	Urgent	Moderate	Barn B	Profile Medical Issue
	Jimmy7	Dog	Broken Ankle	Healthy	High	Barn B	Profile Medical Issue
	Jimmy8	Dog	Ingrown claw	Attention	Moderate	Barn B	Profile Medical Issue

At the bottom right of the table are page navigation buttons: 1, 2, 3, >.

Teaching Technicians

- **Can request an animal.**

This is done when a user who is a teaching technician logs in, and then goes to the home page, and presses the “Request visit button”. A row is then added to the CLASSROOM_BOOKINGS table. An admin and technician must then approve the visit by logging in and using the animal bookings dash

The screenshots show the Animal Booking Dashboard interface. The top screenshot displays a list of animals with their names, types, and genders. The bottom screenshot displays a list of booking requests with columns for health status, animal name, visit date, requesting user, admin approval, tech approval, and actions (App or Rej).

Top Screenshot Data:

Photo	Name	Animal Type	Sex	Action
	Spud	Dog	male	Go to profile Request visit
	Jimmy2	Dog	female	Go to profile Request visit
	Jimmy3	Dog	male	Go to profile Request visit
	Jimmy4	Dog	female	Go to profile Request visit
	Jimmy5	Dog	male	Go to profile Request visit

Bottom Screenshot Data:

Health Status	Animal Name	Visit Date	Requesting User	Admin Approval	Tech Approval	Actions
Red	Spud	2021-11-15	Yiao	Approved (Kraus)	Approved (Hall)	App Rej
Red	Jimmy2	2021-11-16	Yiao	Rejected (Kraus)	Pending	App Rej
Red	Jimmy3	2021-11-15	Yiao	Approved (Kraus)	Pending	App Rej
Red	Jimmy4	2021-11-16	Yiao	Pending	Pending	App Rej
Red	Spud	2021-11-15	Yiao	Approved (Kraus)	Rejected (Hall)	App Rej
Red	Jimmy2	2021-11-16	Yiao	Approved (Kraus)	Pending	App Rej
Red	Jimmy3	2021-11-15	Yiao	Pending	Pending	App Rej
Red	Jimmy4	2021-11-16	Yiao	Pending	Pending	App Rej

- **Can add students.**

As per our class visit with Greg (from the U of C vet school), this function is actually performed by admins, and is thus discussed in the Admin section).

- **Can block and remove students.**

As per our class visit with Greg (from the U of C vet school), this function is actually performed by admins, and is thus discussed in the Admin section).

- Can search and view animal profiles.

This is done via the search bar on the home page

The screenshot shows a search results table for animals. The columns are Photo, Name, Animal Type, Sex, and Action. There are four rows of data:

Photo	Name	Animal Type	Sex	Action
	Spud	Dog	male	Go to profile Request visit
	Jimmy2	Dog	female	Go to profile Request visit
	Jimmy3	Dog	male	Go to profile Request visit
	Jimmy4	Dog	female	Go to profile Request visit

- Can take comments on animal profiles.

Comments are made on individual medical issues, which are created through the animal profile. All comments are added to the COMMENT table

The screenshot shows the animal profile for "Spud". The medical issues listed are:

- Scratched Ear (Priority: Low, Closed: 2020-09-05)
- Broken Leg (Priority: Moderate, Active)
- Cataract in Left Eye (Priority: High, Active)

A red arrow points to the "Scratched Ear" issue.

The screenshot shows the animal profile for "Spud". The comment history includes:

- Comment: Give Stitches (Commented by: Graydon Hall, Date: 2020-09-01)

Description: Gave sally stitches for her cut ear
- Comment: Remove Stitches (Commented by: Graydon Hall, Date: 2020-09-05)

Description: Took out stitches for sally, issue resolved

A red arrow points to the "Add New Comment" button at the bottom of the comment list.

Students

- Can search and view animal profiles.

This is done via the search bar on the home page

The screenshot shows a table of animal profiles. The columns are Photo, Name, Animal Type, Sex, and Action. There are four rows, each with a small thumbnail photo, the name (Spud, Jimmy2, Jimmy3, Jimmy4), Dog as the animal type, and male or female sex. Each row has two buttons in the Action column: 'Go to profile' (red) and 'Request visit' (yellow).

Photo	Name	Animal Type	Sex	Action
	Spud	Dog	male	Go to profile Request visit
	Jimmy2	Dog	female	Go to profile Request visit
	Jimmy3	Dog	male	Go to profile Request visit
	Jimmy4	Dog	female	Go to profile Request visit

- Can take comments on animal profiles.

Comments are made on individual medical issues, which are created through the animal profile. All comments are added to the COMMENT table

The screenshot shows the profile for 'Spud'. It includes a photo, basic info (Animal Type: Dog, Last Checkup: 2021-10-01), and a 'Request Visit' button. On the right, it shows 'Animal Status: Attention'. Below this, there's a list of medical issues: 'Scratched Ear' (Low priority, Closed: 2020-09-05), 'Broken Leg' (Moderate priority, Active), and 'Cataract in Left Eye' (High priority, Active). A red arrow points to the 'Scratched Ear' entry.

The screenshot shows the profile for 'Spud' with a photo. It displays a comment from 'Graydon Hall' on '2020-09-01' about giving stitches, with a description and two small images of dogs wearing hats. Below it is another comment from 'Graydon Hall' on '2020-09-05' about removing stitches, with a description and two small images of dogs wearing hats. A red arrow points to the 'Add New Comment' button at the bottom.