

<http://flip1.engr.oregonstate.edu:9037/index.html>

Hello World Pets

By Mingxuan Li

Feedback from Peer Reviewers in Project Step 5

Feedback

Anthony Fiore

Do all the items the team indicated as part of What works, in your estimate work according to the project guide?

- All select, insert, and delete queries appear to work as described and meet the class requirements, the site looks great overall!
- One small gripe I have is that it seems the Classes and Vets queries use a strict equals condition instead of LIKE, so for example searching for a vet specialty of "avian" will not find a vet with a specialty of "Avian and Canine"

Do you have suggestions to assist on What doesn't work? or Where/why you are blocked?

Exceptional peer reviews would give specific steps to the team to overcome

- With regard to the search/filter requirement, it sounds to me like this just stated you need at least one SELECT query with a WHERE clause, which you meet with your searches on the Pets, Classes, and Vets tabs
- Pet gender is rendering as b'0' or b'2' in the admin table. I don't think this would affect the grade at all, but it would be easier to understand if it rendered as male or female on the front end
- After adding a customer on the Customers tab it seems you need to refresh the page to get them to appear in the dropdown for adding a pet, but refreshing the page right after adding a customer will also add a duplicate of that customer

Jesse Pantoja

Do all the items the team indicated as part of What works, in your estimate work according to the project guide?

- I was able to create, read, and delete from most entities. The one I had trouble with was the class entity, but I think it had to do with the way I was typing the information in. I would change the time input field as it's not clear how I should be formatting that as a text input.

Do you have suggestions to assist on What doesn't work? or Where/why you are blocked?

Exceptional peer reviews would give specific steps to the team to overcome

- For your class search page, I got some 500 errors when trying to search by time. I imagine this has to do with how I'm typing in the time but it wasn't clear how I should be formatting it for a proper search. I think for day, time, and price, it would be better to have a list of preset options to search by rather than having the user type something out. You can add the same kind of drop down menu to the other search pages where the user wouldn't be expected to know how or what to search for, if that makes sense (e.g. specialty in the vets page).
- Someone already mentioned it but your search results table displays gender as the value that I assume you're using in the backend. I would also agree in changing this to male vs female. In addition, I would also change the columns that have a vet or customer from displaying their ID to their name for the user.

- The website is looking great though! Loving the design.

Casey Cheek

Do all the items the team indicated as part of *What works*, in your estimate work according to the project guide?

This site looks pretty good! CREATE/READ/DELETE seem to be working except for the following:

- I wasn't able to add a class or enroll a pet in a class on the admin page.
- I saw the same issue that Anthony described, where a customer is duplicated after refreshing the page. Searching for a customer that has been duplicated in this way results in a 500 error.

Do you have suggestions to assist on What doesn't work? or Where/why you are blocked?

Exceptional peer reviews would give specific steps to the team to overcome

I'm not a TA, but I think your Find a Pet, Search For a Class, and Search For a Vet pages should fulfill the search/filter functionality requirement. Also to meet the requirements (whoops, I thought this was required but now can't find it), you'll have to use something other than ID numbers to add new M:M relationships. One way to do this is to display the name of a Pet/Class/Vet in a dropdown list but then post the ID of whatever was selected in a hidden input field. That way, the user gets to select a name from a list, while IDs get inserted into the M:M table. It might not be required but this is still a nice feature for the user.

Daniel Bruza

Do all the items the team indicated as part of *What works*, in your estimate work according to the project guide?

The CREATE/READ/DELETE functionality appears to be working for all entities. I agree with Anthony about the search in Vets. The strict search conditions in the vet specialties does not return a vet when Avian, or Canine are used to search for a vet. Vet id #2 has an Avian and Canine specialty and should be returned by the search condition.

Do you have suggestions to assist on What doesn't work? or Where/why you are blocked?

Exceptional peer reviews would give specific steps to the team to overcome

I am not a TA but I think that the search/filter requirement would be fulfilled by the search queries on the Pets, Classes and Vets tables. I also think that the formatting of the time field input in the Class entity is not very clear, and a default value or label could clear that up. The vet specialties search on the Vets page excludes vets that have multiple specialties from searches that only specify one of the specialties.

The TA Reviewer suggested we mute our background a little bit as it is making it hard to read the tables. We will implement this change, however we have not gotten to it yet.

Actions Based on the Feedback

- **Peer reviewers commented that they would like to see a less strict query (e.g using LIKE) to search vet specialties.** To address this, we will change our search queries to contain LIKE so that more results will populate if they are similar enough.
- **Peer reviewers commented that we should show the pet gender (e.g. Male or Female) instead of numbers, and that the binary numbers showing up are different on the Admin page.** In order to address this, we will make sure that gender is coded consistently throughout the database/pages and make it so that users see either Male or Female on the front end. -- This has not been implemented yet.
- **Peer reviewers commented that the searching on the Class page is not very clear.** In order to address this, we will add examples of what to search for in the built in form as placeholders. We probably will end up changing the Class search a little bit too on the front end to help with clarity.
- **Peer reviewers commented that there are missing semicolons at the end of our queries.** To address this, we have added semicolons to the end of all of our queries.
- **Peer reviewers commented that there were inconsistencies with upper and lower case names in our queries.** To address this we have made all SQL keywords uppercase and everything else lowercase.
- **A peer reviewer mentioned we're missing a 3rd 1:M relationship,** so we've added new entity Teachers, which has a 1:M relationship with Classes.
- **Peer reviewers commented that it was not obvious that a relationship was NULLable.** To address this, we have changed the relationship between Vets : Pets from 1 (required) : M to 1 (optional) : M. That means, a Pet can have no Vet, and the Vet ID FK inside of Pets can be changed to empty / NULL. In terms of being reflected in the UI, this is shown with a drop-down menu listing the Vets available when registering a Pet. The Customer enrolling the Pet can select a Vet, or select No Vet to make the field NULL.
- Several students said something along these lines: **"If the enrollment portion of the website (maybe how many spaces are available in the class?) was easier to visually connect between pets and classes that might be a nice feature."** To address this feedback, the Classes search results table has been updated to show available and captured spots in the class. These have also been added as attributes to the Classes entity.
- This was also mentioned: **"Based on the schema, the M:M relationship is Enrollments (between Pets and Classes). However the site does not demonstrate an area in which a Pet can be enrolled in a Class.** Consider implementing this to meet requirements!" To address this feedback, we have added an "Enroll Pet" button to the Class Search which will allow the user to actually enroll a pet in a class (by ID) on that page.
- **Fix the navbar so that window resizing doesn't cause issues.** This issue was a bug with the Navigation Bar / Hamburger menu in our Bootstrap implementation, which has been fixed and is now working as expected.

Upgrades to the Draft Version

- **New:** When searching for a Vet specialty on the Vets page of the app, we are now using LIKE in our SQL query. By doing so users can search for any type of specialty, and if that specialty exists (even if it is one of several specialties for a vet), that vet will be displayed to the user.
- **New:** The search on the class page has been updated to use dropdown menus and a range. This will allow users to know what they can search for in the Classes table.
- One reviewer mentioned that we are missing a 3rd 1:M relationship. In the final project we need 4 relationships total (3 1:M and 1 M:M). In order to address this we are adding a new entity called Teachers, which has a 1:M relationship with Classes. Teachers can teach many classes but each class can only be taught by one teacher. The Overview, Database Outline, ERD, and Schema have been updated to accommodate this change.
- The field class_enrollments has been removed from the Classes table. This field has been removed because it duplicates information contained in the other tables. A better approach would be to query this information from the Enrollments table in order to see the total number of enrollments in each class. This was done for database normalization.
- The field number_of_pets has been removed from the Customers table and the field number_of_patients has been removed from the Vets table. These have been removed because they duplicate information contained in other tables. We have decided it is a more sound approach to query this information from the appropriate tables when it is needed, rather than store it in a table. This was done for database normalization.
- As mentioned above the 1:M relationship between Pets and Vets is now optional - a Pet may have no Vet, and so the Vet ID FK inside of pets may be NULL. The overview and diagrams have been updated accordingly.
- The class_seats and class_enrollments attributes have been added to the Classes entity to keep track of the total and captured seats in the Classes.

Project Outline and Database Outline

Trinity will be responsible for websites and tables for entities Customers and Classes, Megan will be responsible for Pets and Vets.

Overview

Hello World Pets has an average of 2000 unique customers a year. Hello World Pets offers a number of in-house pet enrichment Classes per day, seven days a week, and also keeps an in-house team of Vets on staff to care for Pets' health needs. A database-backed website will solve the problem of managing Class enrollments, Teacher-Class relationships, and Vet-Pet relationships. Customers who use Hello World Pets enrichment Classes can have any number of Pets enrolled in any number of Classes as long as the date and time does not conflict. Classes are 1-2 hours long and take place on a single day.

At Hello World Pets, we want our teachers to be passionate about their classes. To ensure that your pet receives the best training possible each class will be taught by one teacher only. However, a teacher may teach as many classes as they would like. If you loved one teacher you are likely to find another class taught by them.

When a Pet takes Classes at Hello World Pets, they may be assigned to a particular Vet who will care for them routinely and as needed. The Vet may care for a number of Pets, but the Pet will visit the same Vet every time. This way, the Vet can get to know the Pet and build a long-term relationship. However, assigning a Vet to a Pet is optional, and the Customer may choose “No Vet” during registration.

Database Outline

- **Customers:** records the details of the customers who frequent the pet store
 - customer_id: int, auto_increment, unique, not NULL, PK
 - first_name: varchar, not NULL
 - last_name: varchar, not NULL
 - email: varchar, not NULL
 - phone: char, not NULL
 - address: varchar, not NULL
 - city: varchar, not NULL
 - state: char, not NULL
 - zip_code: char, not NULL
 - *Relationship:* a 1:M relationship between Customers and Pets is implemented with Customer PK customer_id as a FK inside of Pets. Customers can have any number of pets, but pets have only one customer/owner.
- **Pets:** records the details of the pets enrolled in classes
 - pet_id: int, auto_increment, unique, not NULL, PK
 - pet_name: varchar, not NULL
 - species: varchar, not NULL
 - breed: varchar, not NULL
 - age: int, not NULL
 - gender: binary, not NULL
 - vet_id: int, FK
 - customer_id: int, not NULL, FK
 - *Relationship:* a M:M relationship between Pets and Classes is implemented with an intersection table containing FK pet_id and FK class_id. Pets can be enrolled in any number of classes and classes can be filled with any number of pets.
- **Vets:** the team of veterinarians who care for Hello World Pets' animal students

- vet_id: int, auto_increment, unique, not NULL, PK
- first_name: varchar, not NULL
- last_name: varchar, not NULL
- email: varchar, not NULL
- phone: char, not NULL
- specialty: varchar, not NULL

- *Relationship*: a 1:M relationship between Veterinarians and Pets is implemented with vet_id as a FK inside of Pets. Vets can see any number of pets, but pets have only one vet they see. The FK inside of Pets may be NULL, having a Vet is optional.

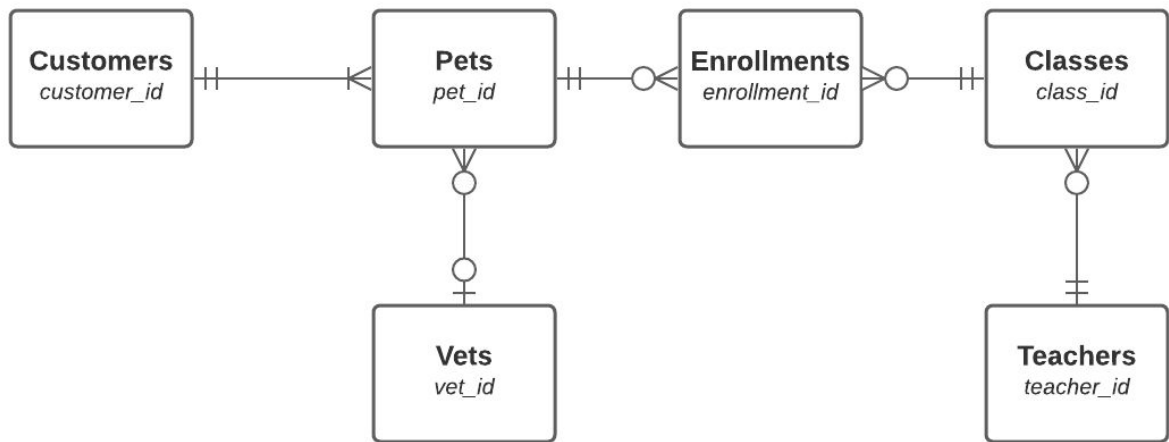
- **Classes**: records the details of the classes offered at the pet store
 - class_id: int, auto_increment, unique, not NULL, PK
 - class_name: varchar, unique, not NULL
 - class_description: varchar, not NULL
 - class_day: Date, not NULL
 - class_time: Datetime, not NULL
 - class_price: Decimal, not NULL
 - class_seats: int, not NULL
 - teacher_id: int, not NULL, FK

 - *Relationship*: a M:M relationship between Pets and Classes is implemented with an intersection table containing FK pet_id and FK class_id. Pets can be enrolled in any number of classes and classes can be filled with any number of pets (up to class_seats).

- **Teachers**: records the details of the teachers who teach classes at the pet store
 - teacher_id: int, auto_increment, unique, not NULL, PK
 - first_name: varchar, not NULL
 - last_name: varchar, not NULL
 - email: varchar, not NULL
 - phone: char, not NULL

 - *Relationship*: a 1:M relationship between Teachers and Classes is implemented with teacher_id as a FK inside of Classes. Teachers can teach many classes, but each class can only be taught by one teacher.

Entity-Relationship Diagram



Schema



Fixes Based on Feedback from Previous Steps

- Remove mention of 'Products' entity from overview, since it is no longer one of the entities in our project. It was left in the overview in error.
- Change the datatype of "phone" attributes to char instead of varchar (in both Customers and Vets entities), since phone numbers do not have a variable length.
- Change the datatype of "state" attribute in Customers entity, and use two-letter state abbreviations.
- Update ERD to include the Enrollments intersection table (TA Feedback).

Team Evaluation Form

1 = Strongly Disagree

2 = Disagree

3 = Agree

4 = Strongly Agree

Group number	63	
Name of Group TEAM Members:	Megan Morrison, Trinity Lundgren	
SCALE AND COMMENTS	RATING	ADDITIONAL COMMENTS
HoW Prepared was your team? Research, reading, and assignment complete	4	Team was fully prepared.
How responsive & COMMUNICATIVE were you both as a team? Responded to requests and assignment modifications needed. Initiated and responded appropriately via email, Slack etc.	4	The team is very responsive. Both team members are quick to respond.
Did both group members Participate equally Contributed best academic ability	4	Both team members took on different tasks for each weekly assignment in order to complete the assignments. Both team members thoughtfully contributed best academic ability and worked together to make decisions about design and addressing peer feedback.
DID YOU BOTH FOLLOW THE initial team CONTRACT? Were both team members both positive and productive?	4	Yes, both team members followed the initial team contract.

Are there any suggestions for improvement for your team and what are your goals moving forward?

(Better communication, follow the contract better, modify the initial team contract, more contribution, etc?)?

- Keep up the good work! Team is communicating well, exhibiting great teamwork and collaboration and delivering features ahead of schedule.