**“Show Me That Cat!” Website**

**Major New Work:**

I did not do too much this week. I seemingly fixed my filtering, and I added some aesthetic changes. I added a back button to the top of add\_cat.php and cat\_details.php. I had to add a css to the button on cat-details to float left to separate it from the delete and edit buttons.   
  
I changed the structure of the error and success message for filtering a cat. By doing this, I realized that the error message on cat\_info\_list.php was not actually being used (it was being used through errors.php) so I went ahead and removed that code.   
  
*Onto the filtering function:*  
I removed all the NULL and replaced with “ “. I also changed all the syntax that was !== and replaced this with !=.   
  
I removed the left joins of the physical and personality traits from the base query and added them into a subquery instead. I learned about the GROUP\_CONCAT function which is an SQL aggregate function (also learned a new word! Aggregate) that groups values from multiple rows into a single string. In my project, it is concatenating all the associated personality trait IDs and physical trait IDs with the GROUP BY catID in their respective subqueries.   
  
I also learned about the FIND\_IN\_SET SQL function. From what I understand, it checks for the presence of the trait IDs inside of the string created by the GROUP\_CONCAT function.

**Reflection:**

As someone who has absolutely no familiarity with SQL before this class, when I asked if what GROUP\_CONCAT returns is an array, I was surprised to find out it is not considered an array and it is technically just a string separated by commas.   
  
I am assuming that it is similar function to what an array does for other languages but in SQL they just have a different name for it other than array. I have dealt with functions that concatenate like on Python, but I don’t remember using it this way. It was always to bring together sentences or something simple like that. We always used a form of array for pulling index numbers and their values.

**POSSIBLE ROADMAP FOR THE NEXT COUPLE WEEKS**  
  
**Week 15:** adding more images to allow variety of cat images without needing users to submit cat images and some aesthetic changes.

**Files Worked On:**

styles.css (css folder)  
db\_functions.php (model folder)  
cat\_info\_list.php (view folder)  
filtered\_cat\_info\_list.php (view folder)  
add\_cat.php (view folder)  
cat\_details.php (view folder)