**CIS 222 – Fall 2019**

**Midterm Examination**

**Testing Rules:**

* This examination is open book, open notes, and open Internet. You can use any resources at your disposal so long as any code you submit is your own. Do not download or copy code from others. This includes other sites, however, you can re-use and update your own code.
* As long as these rules are met, this is a take home midterm. However, you must attend class on Tuesday October 15th to get credit and be prepared to explain any of your code if asked.
* I will stop accepting submissions promptly at 5:15pm on October 15th. No exceptions.
* Any instances of cheating (or any violation of the above rules) will result in a zero on this exam, and could result in removal from the course and/or disciplinary action on behalf of the school.
* This midterm has two sections that total 100 points. A SQL portion and a PHP portion. There is also an optional extra credit portion.

**Things to do:**

* Read the instructions
* Follow the instructions
* Before you leave class on Thursday, verify with me that I can see your exam

**Things not to do:**

* Do not worry about security for this exam only (I will not SQL injection hack this exam, pinkie promise)
* Do not over-complicate your response (I want to see a simple implementation of the question)

For your midterm examination, please do the following:

* Upon completion, upload all files to git in a folder called *midterm* or *mid*
* Also, ensure that all work is available on your HFCC web presence (CIS Linux PHP web server.
* For instance, I need to be able to go to cislinux.hfcc.edu/~*username/mid* to see your work (so, mine would be at cislinux.hfcc.edu/~*crbanks1/mid*).
* Make sure a link to your midterm on the CIS Linux server is in your index file, this way I can go into git to find your project if I am unable to find it on the CIS server.
* IF YOU DO NOT UPLOAD YOUR WORK, YOU WILL NOT RECEIVE A GRADE.

**Part 1: Database (40 points)**

Use PHPMyAdmin, MySQL Workbench, PhpStorm, or the command line MySQL tool to create a new table in your database called *midterm\_animals*. You will need to keep the query though. The table should have an index field, a string field for the animal type, a string field for animal breed, a field for the date the animal was checked into our care, and a date for when the animal was checked out of our care. Once you have your CREATE statement I need you to save it in a file called setup.sql which needs to be included in your final. You also need to include some compatible data below using an insert statement. Include the INSERT statement(s) in your setup file as well.

Insert into the database, the following data:

1,Dog,Golden,DATE,NULL

2,Cat,Tabbi,DATE,NULL

3,Reptile,Turtle,DATE,NULL

**Part 2: Program (60 points)**

Next, create your midterm folder and in this folder, the following PHP files. These files are 15 points each.

**index.php**

This should list all animals in the database and show at the bottom the count of the animals in our care. Somewhere on the page, also include links to the insert, update, and delete pages below.

**insertfriend.php**

This should take input from the user in text boxes and put the input into the database. You should give a message if there is a successful insert of the item and an error message if there is not. This page should also have a back button that takes you back to the index page.

**updatefriend.php**

In your list animals file, make sure every time an animal is listed it has a dynamic link to this update animal file. This file should pull and display the information for the animal selected in text boxes. The user should be able to change this data and click a submit button. This data should now be updated and you would then show the changed row with a successful message. This page should also have a back button that takes you back to the index.

**removefriend.php**

This should allow the user to select an animal and remove it from our care, which will delete it from the database. This page should also have a back button that takes you back to the index page. If this just populates a removed field instead of doing an actual delete, that is acceptable.

**Bonus (20 points):**

Create a **findfriend.php** file. This page should start by showing no animals, instead users should just get a text box asking for a breed. This file should allow the user to enter a breed and return all animals that match this breed, even partially. Be sure to include links between this file and your index, otherwise I may be unable to find this file.