



Raining Cats & Dogs

This assignment is about problem solving. How do you develop and implement solutions. Given a problem, you will have to find the answer yourself. Google is your friend.

What you will be working with:

- *phpmyadmin*
- *SQL import*
- *Php PDO database connection*
- *SQL SELECT & INSERT*
- *Data types*
- *Primary keys and auto_increment*
- *Form data*

Case background:

You are working as a junior developer. The office is busy and you are asked to help prototype a solution for a new client. Your client is the *Pet Angels* kennel in London. The client has asked for the development of a database for displaying the animals that they currently have in the kennel. They also want to have a description of each race.

Problem 1 - Add more data

The backend developer has already set up the first table. Start by importing this into your local development environment.

- Create a new database
- Import the table "**dogs.sql**"

Then use phpmyadmin to add 3 more dogs of different races.

Look at the **structure** and discuss the following:

- What are the datatypes int, var_char and text?
- What does length mean?
- What is a primary key?
- What is AUTO_INCREMENT?

Problem 2 - Connect with PDO

The backend developer does not have time to help you set this up, but he told you that you should use PDO to connect to the database with.

- Find some PDO examples online
- Use one of them to connect to your database
- Get the data and var_dump() it out

Problem 3 - Show the data

With the data from the database, we need to show this in the frontend. Make a prototype where you show the following:

- How to loop through the data
- How to echo out the name, race, description texts
- How to show the image

Be aware that the client has not delivered the real images yet, so you are encouraged to use relevant placeholder images that you find yourself.

Problem 4 - Insert data (optional)

The client wants to add new dogs themselves. However they can not be given access to phpmyadmin or direct database access. So therefore you must build a system that allows them to fill out some form fields and press submit.

The backend developer gives you the following advise.

- Send the form data to a "process.php" page that does all of the work of inserting it into the database
- Use PDO prepared statements
- Remember to include a message to the user telling them that the data has been inserted

Problem 5 - Cats (optional)

The client likes what she is seeing, however she also want to have cats on the site.

- Create a new table "cats"
- Insert at least 3 cats with info and images
- Show the same info as with the dogs

You decide if they should be displayed in the same page as the dogs or on their own page.

You are also welcome to update the form so that they client can select whether they want to add a dog or cat.