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Enter Your Dog's Weight (numeric only) <input type="number" min="1" max="120" name="dog_
weight" id="dog_weight" required /><br /><br />
Enter Your Dog's Breed (max 35 characters, alphabetic) <input type="text" pattern="[a-zA-Z ]*"
title="Up to 15 Alphabetic Characters" maxLength="35" name="dog_breed" id="dog_breed"
required /><br />
<input type="hidden" name="dog_app" id="dog_app" value="dog" />
<input type="submit" name="input" id="input" value="Click to create your dog info" />
<input type="submit" name="delete" id="delete" value="Click to remove your selected dog info" />
<input type="submit" name="update" id="update" value="Click to update your selected dog info" />
</form>
</div>
</noscript>
</body>
</html>

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The only change shown previously that was not mentioned previously is the removal of `session_destroy` at the end of the code. Since you want the ability for `dog_interface` to recall `lab.php`, the session needs to be active until the users complete the changes. You will create a logout routine that will close the session later in this chapter.

Do It

1. Explain how PHP code can be used to replace the process that the JavaScript code uses to display the list boxes, determine which dog was selected, and populate the form objects with the information from the dog selected. This process would be necessary for any browsers that do not have JavaScript enabled. Hint: The PHP code will work in a very similar way to the JavaScript code. What changes would be necessary to the `dog_interface.php`, `dog.php`, and `dog_data.php` programs to accomplish this task?
2. Download the code for this section from the book's web site. Adjust the code to handle dog information that will include the following additional fields: `dog_id` (unique for each dog) and `dog_gender`. Assume that the `dog_interface.php`, `dog.php`, and `dog_data.php` file will return these fields. You won't be able to completely test this assignment until you read about the changes to these programs.

Updating, Deleting, and Inserting in the Interface Tier

It's time to look at the changes to the programs in the interface and business rules tiers. There are very few required changes in the data tier, since previously the `dog_data` program was created to handle display, update, insert, and deletion of dog information. Doing this ahead of time makes the total amount of changes necessary to the other tiers much easier.

As mentioned throughout the book, the interface tier is responsible for formatting information for display and for requesting or processing information from the business rules tier. The `dog_interface` program should accept the dogs array information from the data tier and, if needed, format it for use in the `lab.php` program. It should also accept the dogs information for the dogs list box, provide any format for it, and send it to `lab.php` for display. In addition, `dog_interface` must accept requests from `lab.php` for insert, update, and delete of dog information and pass these requests on to the data tier for processing. This may sound like a lot, but as you will see, most of the coding already exists in these programs.