```
    catch(setException $e)
    {
                 echo $e->errorMessage(); // displays to the user
                 $date = date('m.d.Y h:i:s');
                 $errormessage = $e->errorMessage();
                 $eMessage =  $date . " | User Error | " . $errormessage . "\n";
                error_log($eMessage,3,USER_ERROR_LOG); // writes message to user error log file
    }
catch(Exception $e)
    {
        echo "The system is currently unavailable. Please try again later."; // displays
        message to the user
        $date = date('m.d.Y h:i:s');
        $eMessage =  $date . " | System Error | " . $e->getMessage() . " | " . $e->getFile()
        . " | ". $e->getLine() . "\n";
        error_log($eMessage,3,ERROR_LOG); // writes message to error log file
        error_log("Date/Time: $date - Serious System Problems with Dog Application.
        Check error log for details", 1, "noone@helpme.com", "Subject: Dog Application
        Error \nFrom: System Log <systemlog@helpme.com>" . "\r\n");
        // e-mails personnel to alert them of a system problem
    }
?>
```

Do It

1. Download the code for this section from the book's web site. The example code (Example 6-3) could be broken into several methods to handle the creation of the list boxes and the dogs array. Create methods and move the code in these methods to process this information. Call the methods from the previous location of the code.

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.php and dog_data.php files will return these fields. You won't be able to completely test this assignment until you read about the changes to these programs. Note: If you did not previously complete the earlier Do It, complete that assignment along with this one.

Updating, Deleting, and Inserting in the Business Rules Tier

You are getting very close to completing the ABC Canine Shelter Reservation System. A few changes need to be made to the Dog class to determine why the class was called (insert, delete, or update). Then the information can be passed to the correct method in the dog_data class. As mentioned, no changes will be needed to the dog_data class, as the methods for insert, update, and delete already exist. Also, the dog class must retrieve all the dog records from dog_data to send to the dog_interface.