

Figure 6-3. Three-tier dog application

The interface tier contains the lab.html file and the dog\_interface.php program. The business rules tier includes the dog.php class and the get\_breeds class. The dog\_data class is in the data tier. Any requests from the dog\_interface program for communications with the business rules tier are handled by the dog\_container class. Any requests for communications with the data tier (from the business rules tier) are also handled by the dog\_container class. Access to the data tier is only available from or through the business rules tier.

The interface tier does not know the location/name of any class or method in the business rules tier. This information is discovered by using the dog\_container. The business rules tier does not know the location/name of any class or method in the data tier. This information is also discovered by using the dog\_container. This allows complete independence of each tier, which allows changes to occur in one tier without requiring changes in the other two tiers.

## Do It

1. Download all the files for the dog application from this chapter. Adjust file names in the dog\_application XML file to discover how missing files are handled in the application. Does the application handle these problems properly? Adjust the dog\_data XML file to include badly formed XML data. Run the application. Does it handle these problems properly? Empty the dog\_data XML file (except for the dogs and dog tags). Run the application. Does it handle this situation properly? For any instance that causes the application to error instead of raising an exception, attempt to adjust the code to anticipate the problem and raise an exception.