

Code Exercise

Prepare the following exercises, each should be in a directory labeled “exercise1”, etc. with the appropriate files necessary to complete the task. These exercises should be able to run on a Linux installation of Apache 2.2 running PHP 5.3 or higher. Please create an account at <http://bitbucket.org> and create a git repository to track your work. When your work is complete, please send us a link to the repository.

Exercise 1:

Create a simple routing mechanism that takes a request like:
/foo/bar

And translates it to
FooController->barAction();

This exercise assumes a single script as an access point to load these controller classes and action methods.

Exercise 2:

Create a driver mechanism for loading an external data source. One data source will be PDO and the other is a RESTful service (<http://mysite.com/api/resource>). Using the driver mechanism should have no knowledge of the implementation and should also be verifiable as a valid driver. The driver should implement the following methods:

Driver

- createData(\$data)
- fetchDataById(\$id)
- searchData(\$criteria)

Exercise 3:

Using two datasets of 10,000 randomly generated values between 1 and 10,000 find only those that are common between the two datasets and sort them from least to greatest. Do not use `array_intersect()` or `array_unique` while answering this question. Keep performance in mind while writing this code.