



PHP Test Assignment

Task 1

Write Some Code

Storing data to a storage, page 1/2

Background

You're part of an engineering team working on a library. The product you're working on needs to store user information. The team has chosen MySQL for storing the data, but there has been discussions around switching to another storage solution.

User story

As a user I want to store user data to a data storage so that I can access it later.

Example data

The Product Manager defined the needed user data to contain IDs (string; for example a GUID) and names (string).

ID	Name
8a8e519b-8768-48d9-90c0-81569d3ded9b	Matt Damon
68c68470-f25f-4ce4-bbf4-05f50bd82fc4	Johny Bravo
60bb0ca5-25d1-43bd-98e5-6a878c00a0d8	Rafael Nadal

Storing data to a storage, page 2/2

Requirements

Your solution must be able to 1) add new users to the storage, and 2) find a user from the storage for an ID. Please avoid using frameworks and ORMs, such as Symfony, Laravel, Doctrine etc. It is ok to use external libraries.

Additional information

You can assume that the required MySQL database and tables exists, there's no need to create any of this. We're looking for code quality, testability, and extendability, and expect the task to be implemented in OOP with appropriate namespaces. Please bear in mind that the team may want to use a different storage option later on – maybe they want to store this data to Redis or a text file.

We expect to see an example of how the solution is used. Example can be a simple CLI script, and it doesn't need to accept any parameters. There's no need for Dockers, routing, frontend, and such, as we're reviewing only the code; we won't execute the code.

We're not looking the solution to be fully tested, just add a couple of tests showing your understanding of testing.

Send us the link to a repository containing your solution.

Task 2

Check a Pull Request

Documentation states the following:

ENDPOINT: <https://api.supermetrics.com/assignment/register>

METHOD: POST

PARAMS:

client_id:	ju16a6m81mhid5ue1z3v2g0uh
email:	<u>your@email.address</u>
name:	Your Name

RETURNS:

sl_token:	This token string should be used in the subsequent query. Please note that this token will only last 1 hour from when the REGISTER call happens. You will need to register and fetch a new token when you need it.
client_id:	returned for informational purposes only
email:	returned for informational purposes only

You receive a pull request with the following line of code. Please comment/review on this code.

- What do you think about its quality?
- Can you find any problems?
- How would you suggest to improve it?

```
<?php
$tokenInfo = file_get_contents(
    'https://api.supermetrics.com/assignment/register?'
    . 'client_id=ju16a6m81mhid5ue1z3v2g0uh'
    . '&email=my@name.com'
    . '&name=My%20Name'
);
```

Task 3

Legacy Code Refactoring

Refactor the following piece of legacy code

You do not need to write code, you may instead describe all the problems you see and how you would refactor this legacy piece of code. Bonus for thinking in an object-oriented way. Of course you may also submit stubs of the code refactored if you have time.

* Please note this is not at all code taken from Supermetrics.

```
<?php

if ($_REQUEST['email']) {
    $masterEmail = $_REQUEST['email'];
}

$masterEmail = isset($masterEmail) && $masterEmail
    ? $masterEmail
    : array_key_exists('masterEmail', $_REQUEST) && $_REQUEST["masterEmail"]
    ? $_REQUEST['masterEmail'] : 'unknown';

echo 'The master email is ' . $masterEmail . "\n";

$conn = mysqli_connect('localhost', 'root', 'sldjfpoweifns', 'my_database');
$res   = mysqli_query($conn, "SELECT * FROM users WHERE email='" . $masterEmail . "'");
$row   = mysqli_fetch_row($res);

echo $row['username'] . "\n";
```


Task 4

Open Source Libraries?

A question:

Would you use a class/library provided by an external framework in your code, why or why not?