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Slim Framework Interview Questions

Top Slim Framework Interview Questions and Answers

Slim Framework is a micro PHP framework designed to make the work of programmers easy. It lets you fast and easily develop simple codes which are quite robust in nature for the development of web-based programs and applications. Also, the development of the application programming interface is very easy using the Slim Framework.

Q1. What is Slim framework?

Slim is a micro-framework written in PHP scripting language, that helps programmers to create simple yet powerful web applications and APIs.

Q2. How is Slim framework different from other frameworks like Laravel, Symfony or Zend?

Defining the given three will cite the differences among them.

- **Laravel:** This is an open-source framework and specifically a PHP one. It follows the model view controller structure for the creation of numerous web applications. And this MVC is based on Symfony.
- **Symfony:** Symfony is also a PHP web framework but this is used to build all sorts of websites that are easy as well as flexible to create and maintain.
- **Zend:** The Zend framework is used to create web applications making use of the PHP 5.3 +. The code used in this framework is completely object-oriented.

Q3. Is Slim framework similar to Symfony's Silex? How do they differ?

Silex is actually based on the **Symfony 2 components**. It can be considered as an alternative user interface to the components out there. The process of migration here becomes convenient due to the similarity they possess. In Silex, the model and the view parts are totally handled by the third-party libraries.

Silex is considered to have a lighter footprint compared to Symfony. Symfony 4 is good and fast too and has some new stack and benefits for the applications. Silex was in maintenance mode in the year 2018 and is upgraded with new features as a PHP framework.

Q4. How would you define a middleware in Slim?

Middleware slim is a part of t.0he Slim Framework is used to implement a version of the Rack protocol, such that, a Slim application can have middleware that may inspect, analyze, or modify the application environment, request, and response before or after the Slim application is invoked.

Q5. How can you install Slim Framework v2?

You can install Slim Framework v2 by following the given steps:

- Download and extract the Slim Framework ZIP archive.
- Copy the Slim/ directory into your project.
- Require the Slim class in your application's index. php file.
- Register Slim's built-in autoloader with \Slim\Slim::registerAutoloader() .

Q6. How can you set and get a cookie in Slim Framework?

Along with the HTTP request currently made, automatically there is parsing done of the cookies. Cookies values are fetched with the **getcookie()** of the Slim application.

```
$app = new \Slim\Slim();
$foo = $app->getCookie('foo');
```

A subsequent request needs to be made along to see the cookie along with the current request. \ **Slim\Http\Request object** is also used to set and get the cookies.

Q7. How to define route groups in Slim Framework?

Sharing of route attributes, like middleware or even URL segments is done by route groups in Slim Framework. It is done across multiple numbers of routes and you don't have to define the particular attributes on every single route.

You can define route groups in Slim Framework as

```
$app->group('/user', function () use ($app) {
  $app->get('/profile/:id', function ($id) {
        });
$app->get('/posts/:id', function ($id) {
        });
}
```

Q8. List some Environment Variables of Slim Framework?

Below is the list of Environment Variables that are available in Slim Framework

- **Request_Method** – This is the HTTP request method and is particularly required and cannot be empty.
- **Script_Name** – The request URI's path of which the initial portion relates to the particular physical directory in which the installation of the Slim application is done. It can be even empty. There will be never a trailing slash in it.
- **Query_String** – It does not include the '?' of the HTTP Request's URI. It may be an empty string.
- **Server_Name** – After combining with Script_Name and Path_Info it can be conveniently used to make a completely qualified URL to an application resource. It will never be an empty string.
- **Server_Port** – After combining with Script_Name and Path_Info, it can be castoff to produce a fully qualified URL to any of the application resources. This will also never be an empty string.

Q9. What is Dependency Injection?

Dependency injection can be simply understood as a technique through which an object or a framework is provided with what it requires or needs, in other words, it's dependencies. There are a number of ways via which this injection can be made such as with setter or constructor injection, or the injection frameworks, etc. Also, this dependency injection is a wonderful technique for testing.

Q10. What is a hook in Slim Framework?

Hooks are function in Slim framework that is used/ register as callbacks. Slim Provides a wide range of Hooks. **slim.before**, **slim.before.router**, **slim.before.dispatch**, **slim.after** are few default hooks that used in Slim.

Note: Hooks are used in Slim version 2.x and completely removed in Slim 3.x.

Using Hook in Slim Framework:

```
&lt?php
$app = new \Slim\Slim();
$app->hook('the.hook.name', function () {
    //Do something
});
```

Q11. How to set charset for DB in slim framework?

Q12. **How can you configure Slim with Doctrine?**

Q13. **Who is the creater of Slim?**

Q14. **Is Slim is better than Silex?**

Q15. **What kind of applications you create in slim Framework.**

Slim Framework helps to quickly create simple, fast, and powerful web applications and APIs.

It has also has features to create REST applications. REST is an abbreviation for Representational State Transfer.

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