Slim

a micro framework for PHP

Tech Talk

Introduce Slim Framework

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WHO AM I ?

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MICRO-FRAMEWORK VS FULLSTACK-FRAMEWORK

Micro-Framework
Lumen
Slim
Silex
Phalcon
Flight
BulletPHP

Fullstack-Framework
Laravel
CakePHP
Symfony
Phalcon
CodeIgniter
Zend Framework

- https://blog.appdynamics.com/engineering/php-microframework-vs-full-stack-framework/

- https://www.codepolitan.com/php-microframework-vs-full-stack-framework-58ac664739bdf

Slim Framework

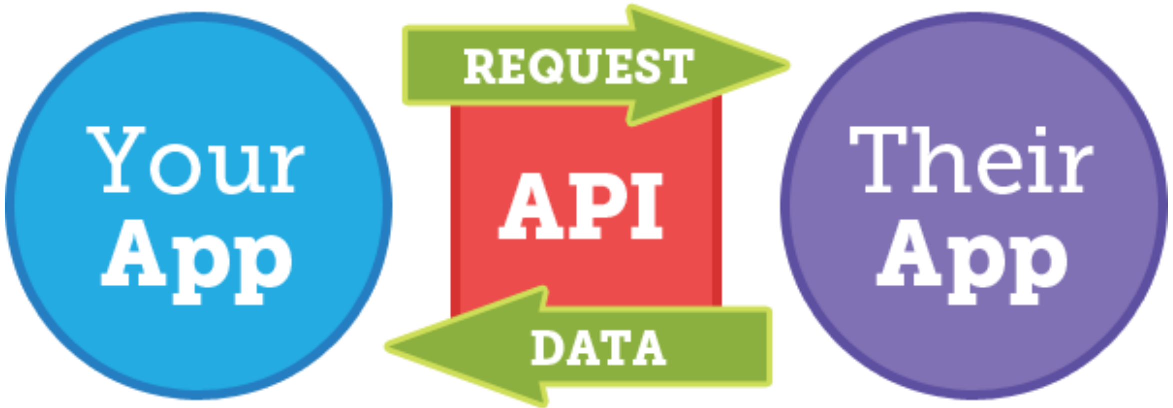
Slim Framework dibangun oleh Josh Lockhart, seorang senior developer dari newmediacampaigns.com dan Ia adalah “The man behind” PHP

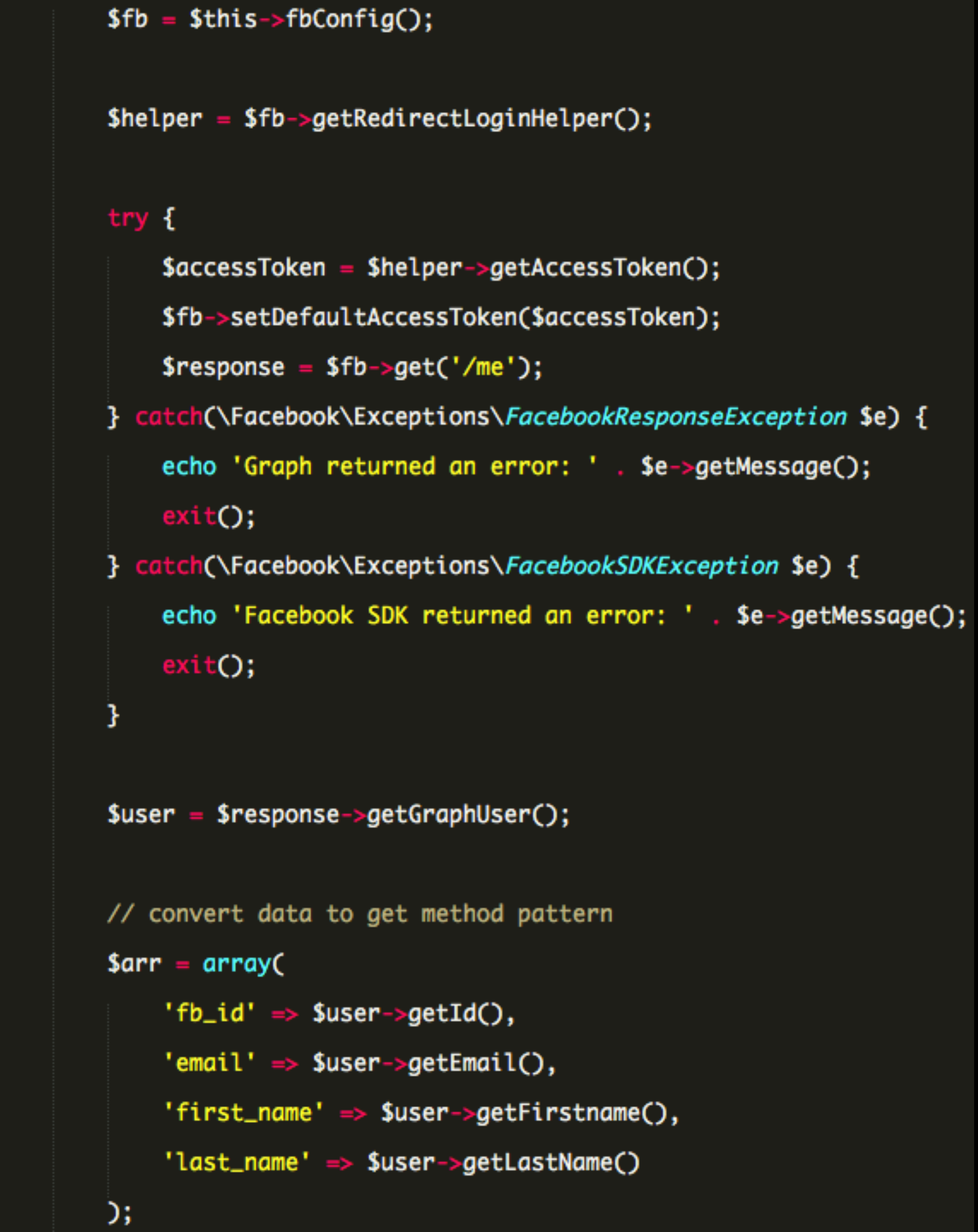
“PHP micro *and easily*
write web a *of tools with*
which a dev

Application Programming Interface

- Sekumpulan perintah/function yang dapat dimanfaatkan oleh seorang developer sebagai jembatan untuk berkomunikasi antar Aplikasi.

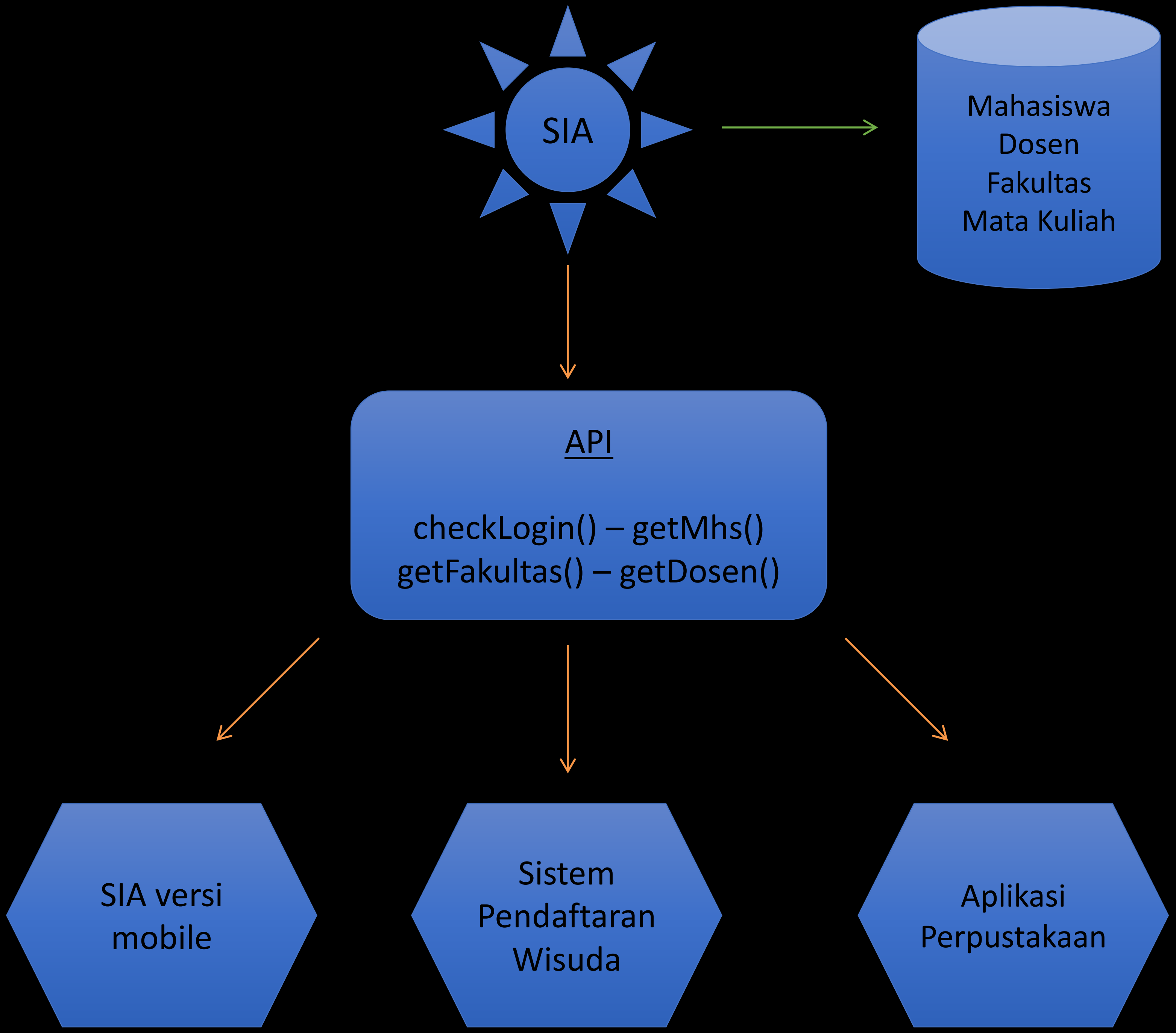
- Connecting Applications





```
$fb = $this->fbConfig();

$helper = $fb->getRedirectLoginHelper();

try {
    $accessToken = $helper->getAccessToken();
    $fb->setDefaultAccessToken($accessToken);
    $response = $fb->get('/me');
} catch(\Facebook\Exceptions\FacebookResponseException $e) {
    echo 'Graph returned an error: ' . $e->getMessage();
    exit();
} catch(\Facebook\Exceptions\FacebookSDKException $e) {
    echo 'Facebook SDK returned an error: ' . $e->getMessage();
    exit();
}

$user = $response->getGraphUser();

// convert data to get method pattern
$arr = array(
    'fb_id' => $user->getId(),
    'email' => $user->getEmail(),
    'first_name' => $user->getFirstname(),
    'last_name' => $user->getLastName()
);
```

FB, I Want talk to you !



SIA

Mahasiswa
Dosen
Fakultas
Mata Kuliah

API

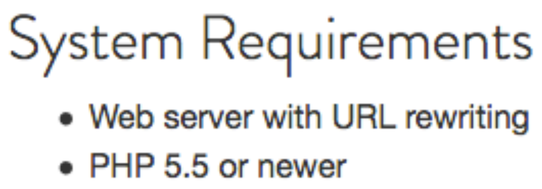
checkLogin() – getMhs()
getFakultas() – getDosen()

SIA versi mobile

Sistem Pendaftaran Wisuda

Aplikasi Perpustakaan

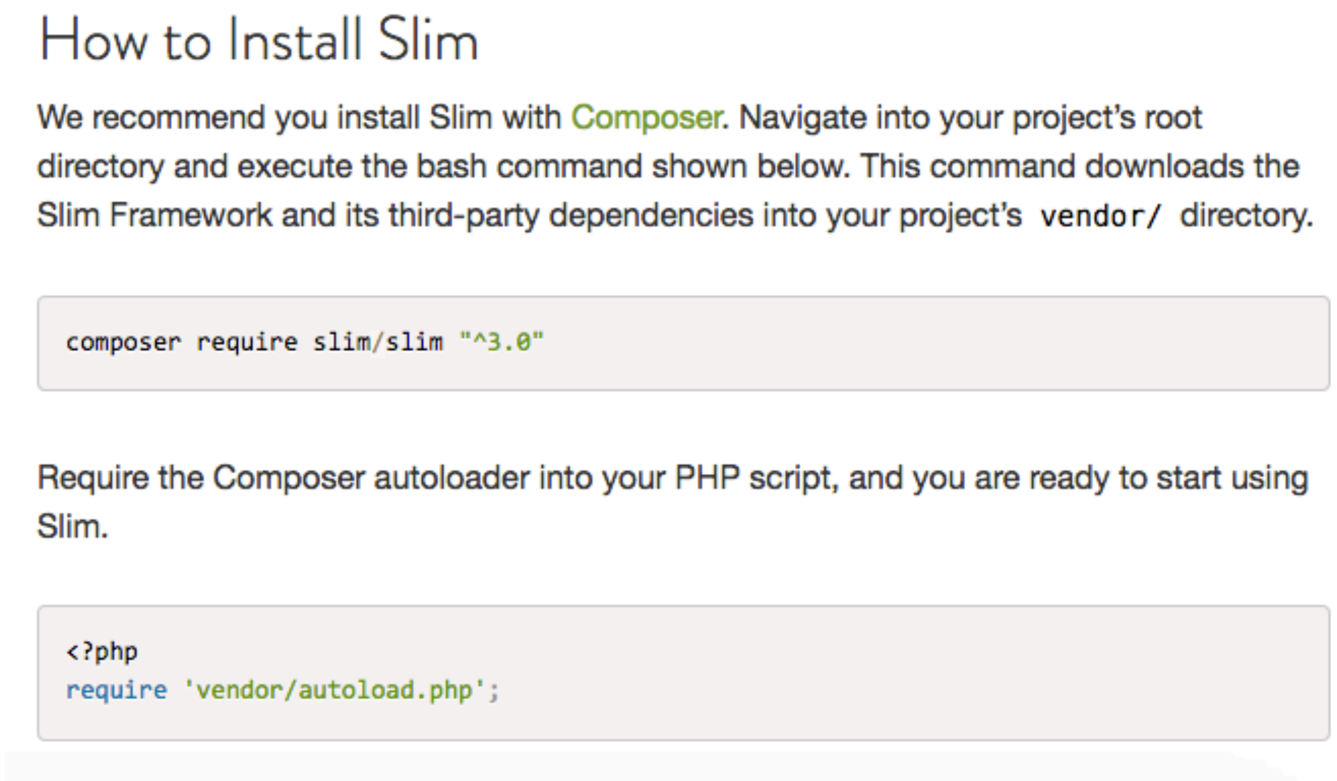
Instalasi



System Requirements

- Web server with URL rewriting
- PHP 5.5 or newer

https://www.slimframework.com/docs/start/installation.html



How to Install Slim

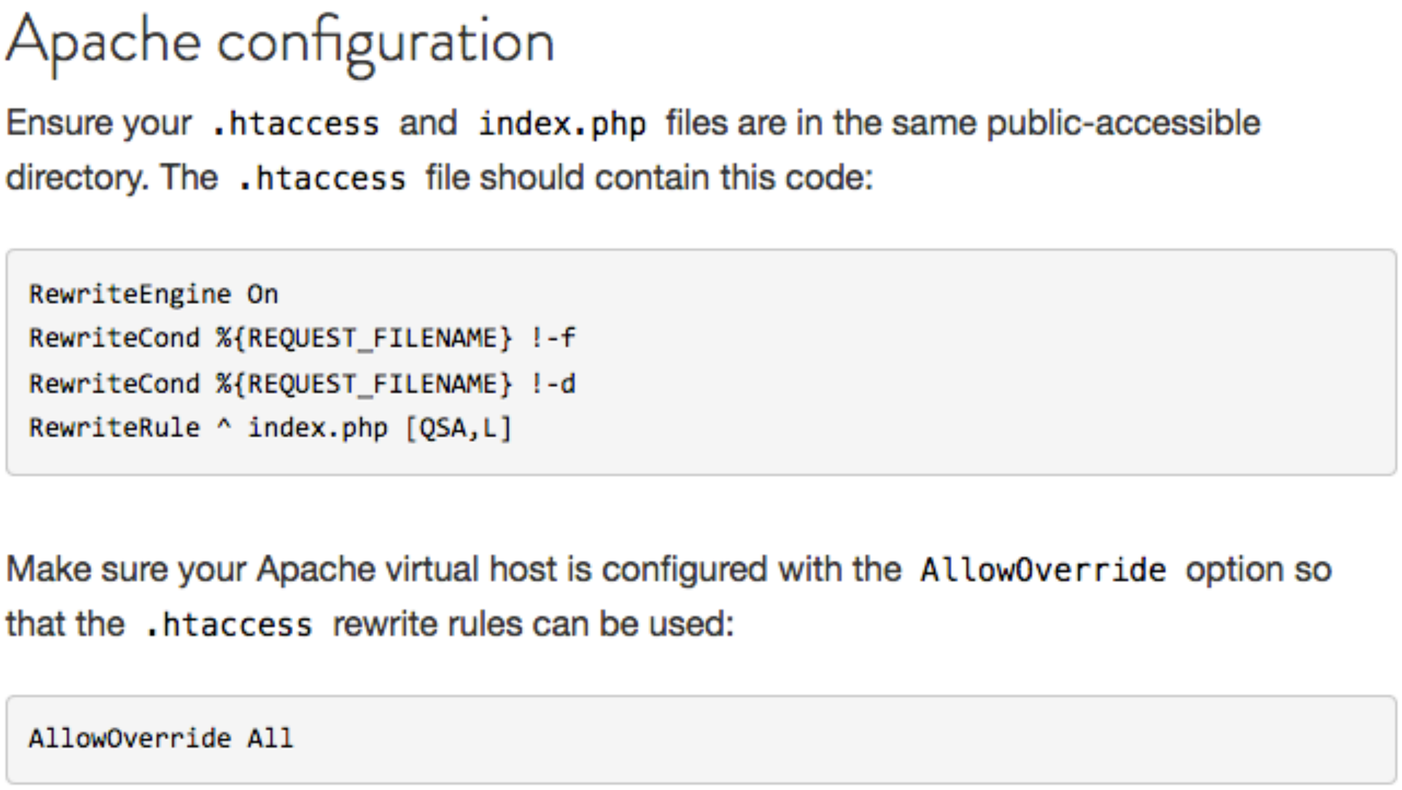
We recommend you install Slim with Composer. Navigate into your project's root directory and execute the bash command shown below. This command downloads the Slim Framework and its third-party dependencies into your project's `vendor/` directory.

```
composer require slim/slim "^3.0"
```

Require the Composer autoloader into your PHP script, and you are ready to start using Slim.

```
<?php
require 'vendor/autoload.php';
```

Web Server Configuration



Apache configuration

Ensure your `.htaccess` and `index.php` files are in the same public-accessible directory. The `.htaccess` file should contain this code:

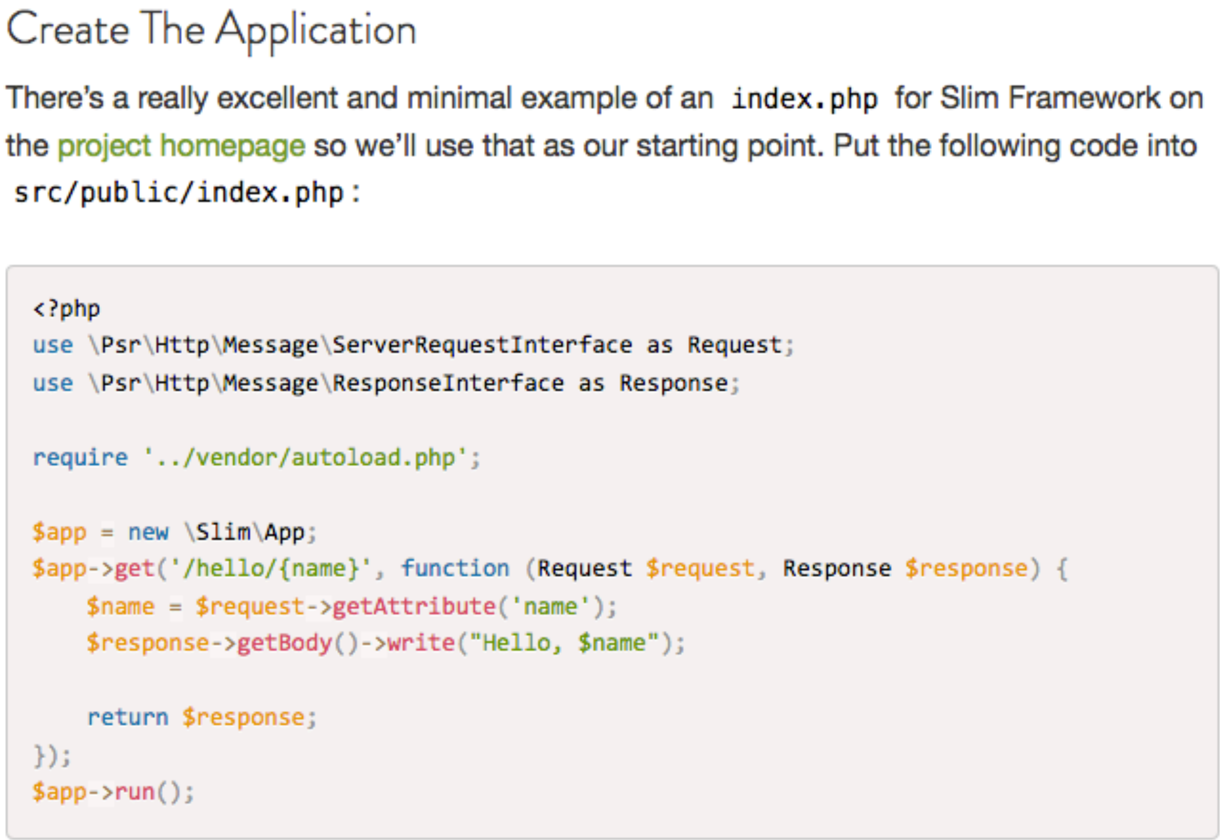
```
RewriteEngine On
RewriteCond %{REQUEST_FILENAME} !-f
RewriteCond %{REQUEST_FILENAME} !-d
RewriteRule ^ index.php [QSA,L]
```

Make sure your Apache virtual host is configured with the `AllowOverride` option so that the `.htaccess` rewrite rules can be used:

```
AllowOverride All
```

https://www.slimframework.com/docs/start/web-servers.html

Hello World !



Create The Application

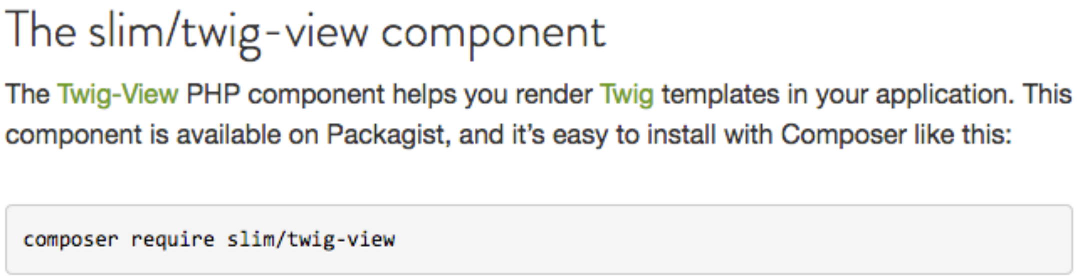
There's a really excellent and minimal example of an `index.php` for Slim Framework on the project homepage so we'll use that as our starting point. Put the following code into `src/public/index.php`:

```php
<?php
use \Psr\Http\Message\ServerRequestInterface as Request;
use \Psr\Http\Message\ResponseInterface as Response;

require '../vendor/autoload.php';

$app = new \Slim\App;
$app->get('/hello/{name}', function (Request $request, Response $response) {
    $name = $request->getAttribute('name');
    $response->getBody()->write("Hello, $name");

    return $response;
});
$app->run();
```

https://www.slimframework.com/docs/tutorial/first-app.html

https://www.codepolitan.com/mengenal-slim-framework-589f4003286cb

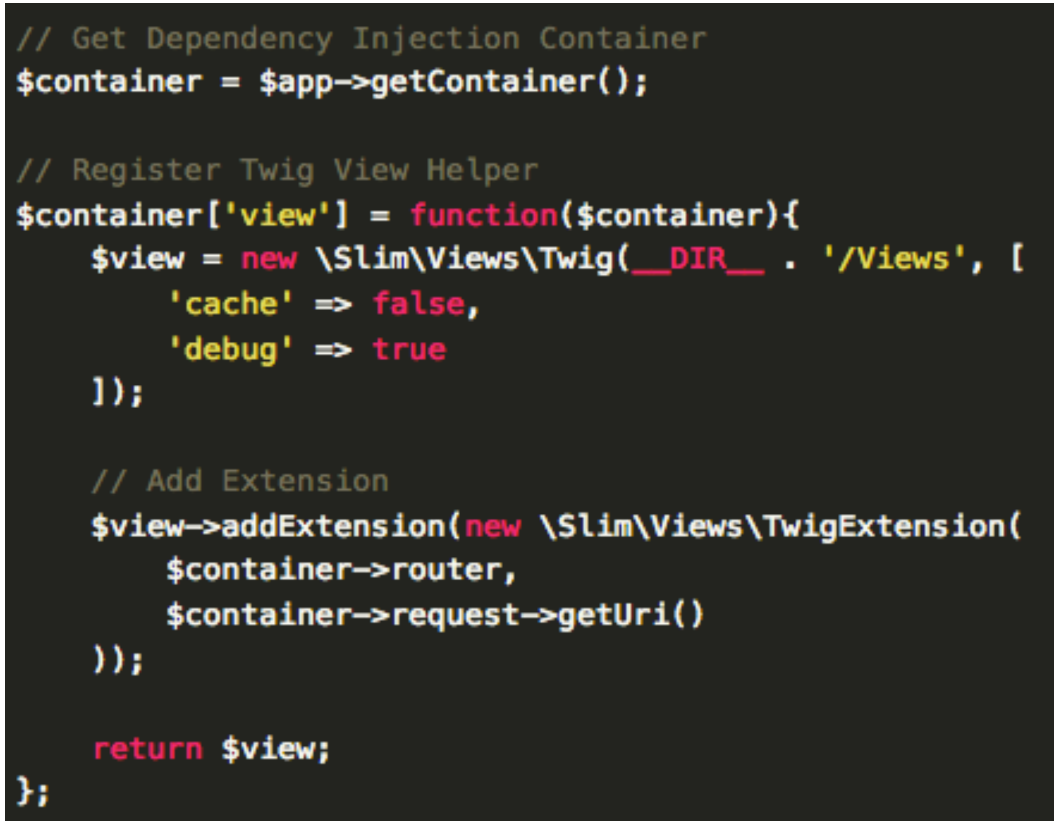
Twig-View



The slim/twig-view component

The Twig-View PHP component helps you render Twig templates in your application. This component is available on Packagist, and it's easy to install with Composer like this:

```
composer require slim/twig-view
```

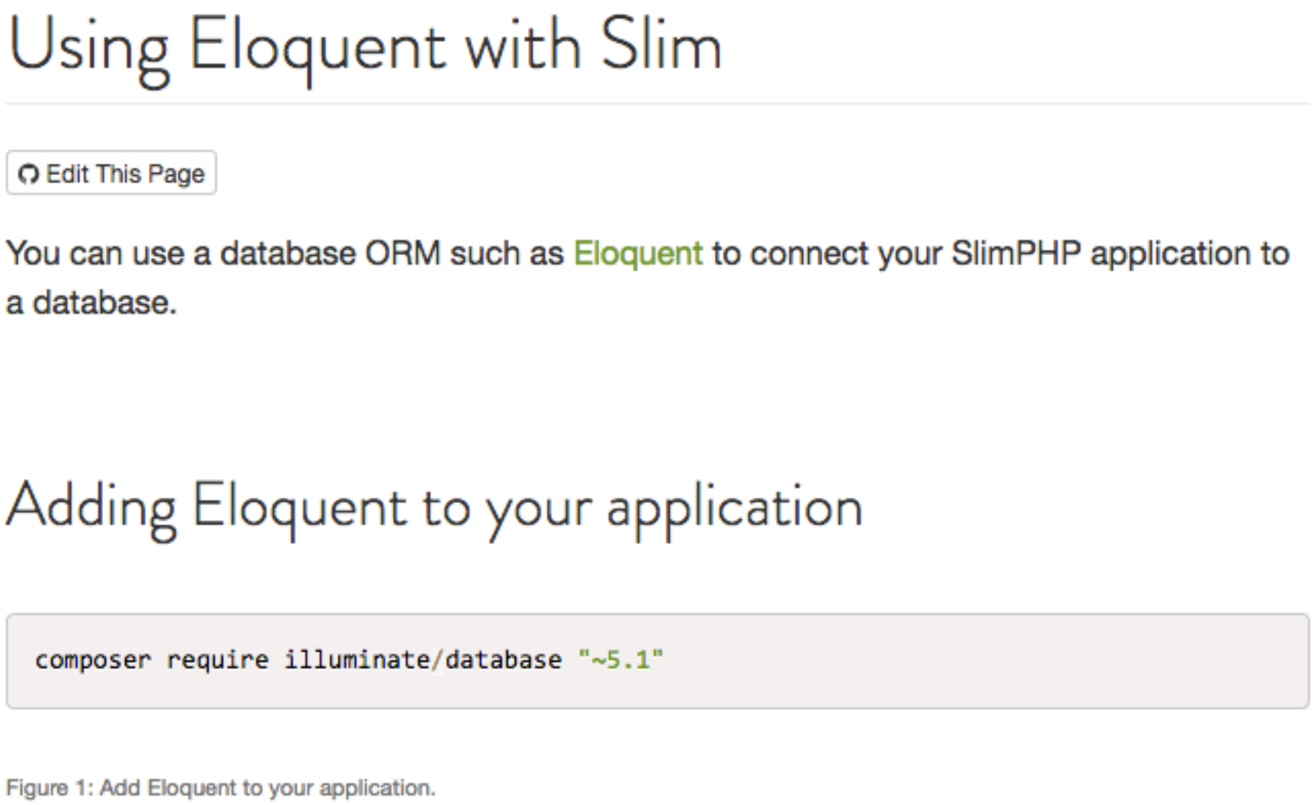


```
// Get Dependency Injection Container
$container = $app->getContainer();

// Register Twig View Helper
$container['view'] = function($container){
    $view = new \Slim\Views\Twig(__DIR__ . '/Views', [
        'cache' => false,
        'debug' => true
    ]);

    // Add Extension
    $view->addExtension(new \Slim\Views\TwigExtension(
        $container->router,
        $container->request->getUri()
    ));

    return $view;
};
```

https://www.slimframework.com/docs/features/templates.html

https://www.codepolitan.com/menggunakan-komponen-twig-view-pada-slim-framework-58a9da426d959

Eloquent



Using Eloquent with Slim

You can use a database ORM such as Eloquent to connect your SlimPHP application to a database.

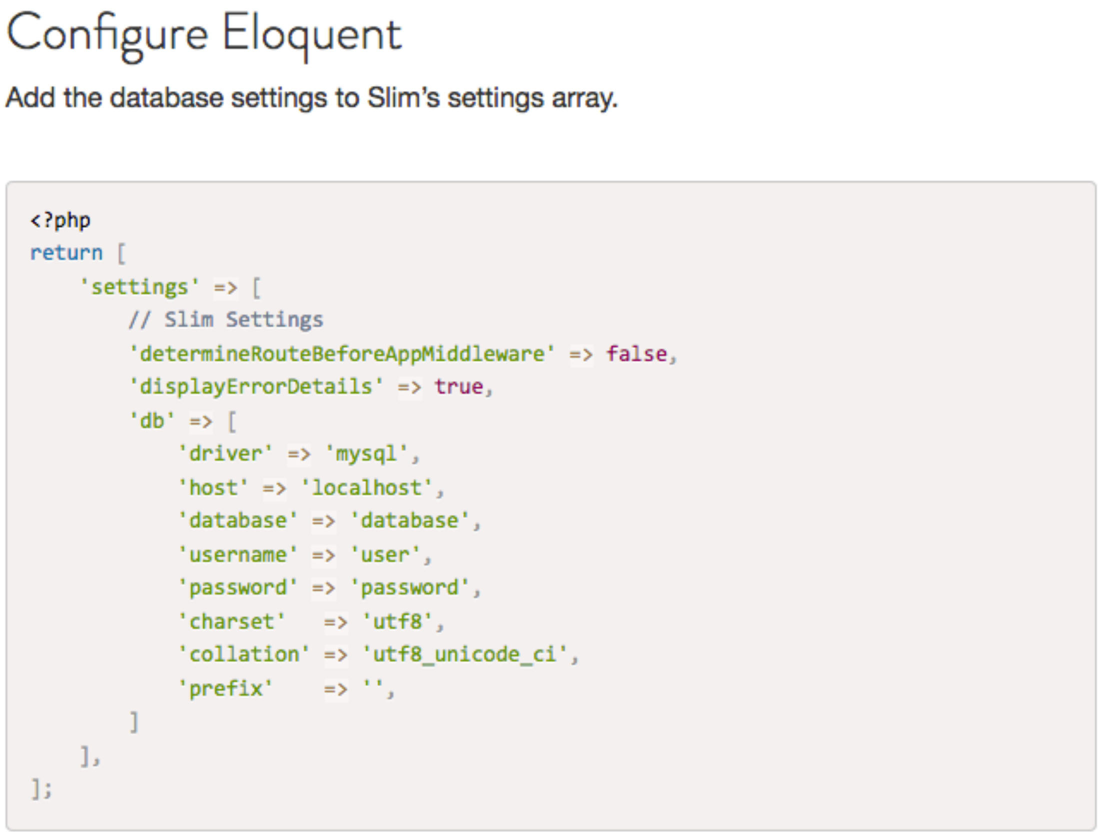
Adding Eloquent to your application

```
composer require illuminate/database "~5.1"
```

Figure 1: Add Eloquent to your application.

https://www.slimframework.com/docs/cookbook/database-eloquent.html

Eloquent



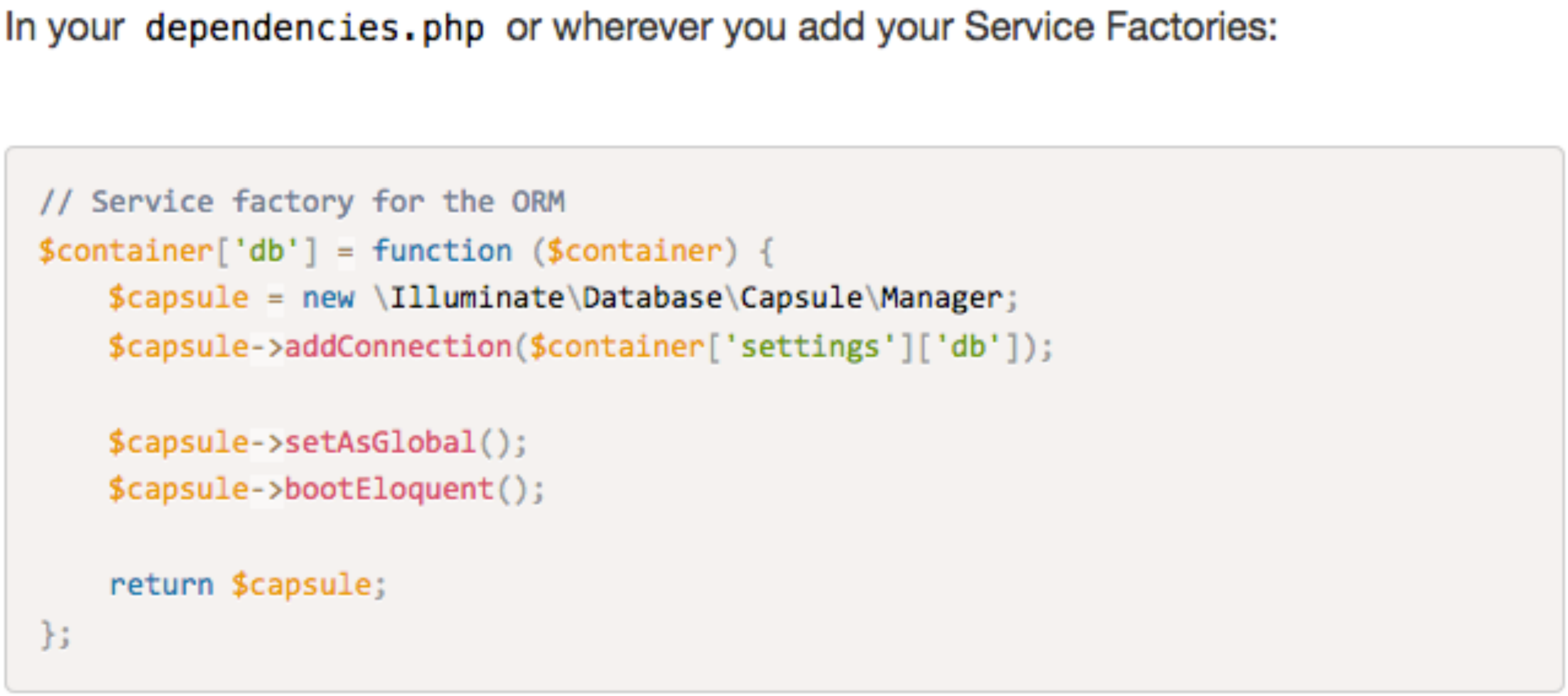
Configure Eloquent

Add the database settings to Slim's settings array.

```php
<?php
return [
    'settings' => [
        // Slim Settings
        'determineRouteBeforeAppMiddleware' => false,
        'displayErrorDetails' => true,
        'db' => [
            'driver' => 'mysql',
            'host' => 'localhost',
            'database' => 'database',
            'username' => 'user',
            'password' => 'password',
            'charset'   => 'utf8',
            'collation' => 'utf8_unicode_ci',
            'prefix'    => '',
        ]
    ],
];
```

https://www.slimframework.com/docs/cookbook/database-eloquent.html

Eloquent



In your `dependencies.php` or wherever you add your Service Factories:

```php
// Service factory for the ORM
$container['db'] = function ($container) {
    $capsule = new \Illuminate\Database\Capsule\Manager;
    $capsule->addConnection($container['settings']['db']);

    $capsule->setAsGlobal();
    $capsule->bootEloquent();

    return $capsule;
};
```

https://www.slimframework.com/docs/cookbook/database-eloquent.html