Monitor Laravel with Prometheus + Grafana

Application Monitoring

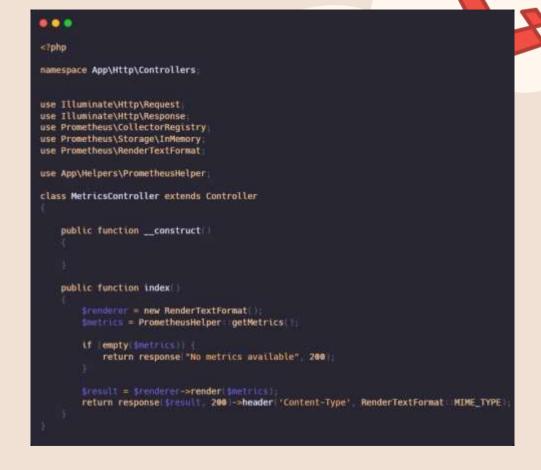


Create a file named indexConroller.php



```
...
<7php
numespace App\Http\Controllers
use Illuminate\Http\Request
use Illuminate\Httn\Hesperse
use Prometheus\CollectorMegistry
use Prometheus\Storage\InRemory
wie Illuminate/Http://ontenpodee
use App\Helpers\PrumetheusHelper
use App\Helpers\ResponseService
class IndexController extends Controller
   public function create Request Second JagnResponse
      ** PrometheusHelper getOrHegisterCounter 'lumen app' 'lumen create reg total' 'Total bit create'
      | man = | 'message' => 'Data created successfully'
      public function read [ ] |
      | ProjectheusHelper | getOrRegisterCounter: 'lumen app', 'lumen read reg Total', 'Total hit read'
      | 'id' == | 'nessage' == 'Data retrieved successfully'
      public function update Request 1700001 1001
      | PrometheusHelper getOrRegisterCounter 'lumen app' 'lumen update reg total' 'Total hit update'
      thinks "id" so the 'message' so "Data undated successfully"
      return ResponseService produceCode 200 "success" date "V-N-d Hills". NUMBER
   public function delete in
      | PromotheusHelper | getOrRegisterCounter | lumen app | | lumen delete regitotal | | Total bit delete |
      Inits - ['LE' -- III 'message' -- 'Oata deleted successfully'
      return ResponseService produceCode 288 "success" date "Y-b-d Hrtrs" | Hinto
```

Create a file named MetricsController. php





Create a file named PrometheusHelper. php



```
...
<?php
namespace App\Helpers
use Prometheus\CollectorRegistry
use Prometheus\Storage\InMemory
use Prometheus\Storage\Redis
use Prometheus\Storage\APC
class PrometheusHelper
    private static *registry = null
    private static function getRegistry
       if |self: |Sregistry === null| |
            self: | Sreathtry = new CollectorRegistry new InMemory | ):
       return self srematry:
    public static function getOrRegisterCounter($manespace, $mane, $help, $labels =
       Sregistry = self : getRegistry );
       return frequetry->getOrRegisterCounter($namespace, $name, $help, $labels);
    public static function getMetrics
        self getRegistry()->getMetricFamilySamples()
       return Smetrics;
```

Create a file named ResponseService.php



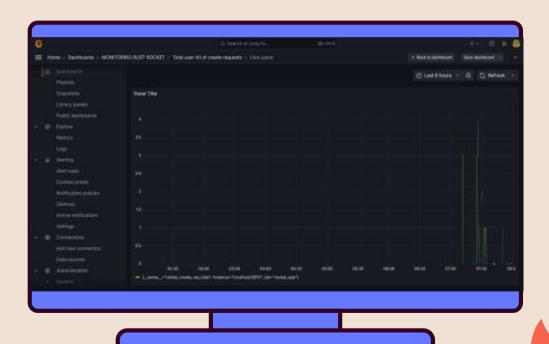
```
. .
<?php
namespace App\Helpers
use Carbon\Carbon
use Illuminate\Http\JsonResponse
use Auth
class ResponseService
    public static function produceCode($responseCode = 200
                                        , $responseDescription = "success"
                                        . $responseTime = null
                                        , $responseDatas = null)
        $isonResponse = new JsonResponse(
            'responseCode' => $responseCode;
            'responseDescription' => $responseDescription.
            'responseTime' => $responseTime.
            'responseDatas' => $responseDatas.
        $isonResponse->withHeaders()
            'Content-Type' => 'application/json'
        return $jsonResponse;
```

Append this code to the web.php

```
$router->get('/', function() use ($router) {
    return $router->app->version();
Route get '/metrics' 'MetricsController@index'):
Route::group(['prefix' => 'api'], function () use ($router)
    Route::post('/crud', 'IndexController@create');
    Route get('/crud/{id}', 'IndexController@read');
    Route :put('/crud/{id}', 'IndexController@update');
    Route | delete | '/crud/{id}' | 'IndexController@delete' |:
```



GRAFANA MOCKUP





SEE YOU



