

Preparing and consuming lumen gateway services,

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Updated [ApiResponse.php](#) for connected microservice lumen project,

```
<?php

namespace App\Traits;

use Illuminate\Http\Response;

trait ApiResponse
{
    public function successResponse($data, $code = Response::HTTP_OK)
    {
        return \response()->json($data,$code)->header('Content-
Type','application/json');
    }

    public function errorResponse($message, $code)
    {
        return \response()->json([
            'error' => $message,
            'code' => $code
        ],$code);
    }

    public function errorMessage($message, $code)
    {
        return \response()->json($message,$code)->header('Content-
Type','application/json');
    }
}
```

\*\*\*\*\*

Step 1: composer require guzzleHttp/guzzle;

Step 2: Main (root) structure er under e config file er under e services.php name e ekta file create kora holo,

Full services.php code, [ config->services.php ]

[ jei jei service er jonno url lagbe, ]

```
<?php

return [
    'authors' => [
        'base_uri' => env('AUTHORS_SERVICE_BASE_URL'),
    ],

    'books' => [
        'base_uri' => env('BOOKS_SERVICE_BASE_URL'),
    ],
];
```

Step 3 : bootstrap->app.php er moddhe services.php ke register kora holo,

```
// registering config files

$app->configure('services');
```

Step 4: `app->Traits` er under e `ConsumesExternalService.php` nam e ekta file create kora holo.

Full `ConsumesExternalService.php` file code,

```
<?php

namespace App\Traits;
use GuzzleHttp\Client;

trait ConsumesExternalService
{
    public function performRequest($method, $requestUrl, $formParams = [],
    $headers = [])
    {
        $client = new Client([
            'base_uri' => $this->baseUri,
        ]);

        $response = $client->request($method, $requestUrl,[
            'form_params' => $formParams, 'headers' => $headers
        ]);

        return $response->getBody()->getContents();
    }
}
```

Step 5: `config->services.php` er moddhe `authors` and `books` er jonno `base_uri` set kora holo,

```
<?php

return [
    'authors' => [
        'base_uri' => env('AUTHORS_SERVICE_BASE_URL'),
    ],

    'books' => [
        'base_uri' => env('BOOKS_SERVICE_BASE_URL'),
    ],
];
```

Step 6 : .env er moddhe link url ke set kore dewa holo, ultimately jekhan theke data fetch hobe,

```
AUTHORS_SERVICE_BASE_URL=localhost:8000  
BOOKS_SERVICE_BASE_URL=localhost:8001
```

Step 7 : app er under e services naam e ekta folder create kora holo and services er under e AuthorService.php nam e ekta file create kora holo, [ AuthorController and authors table er shathe followed ]

app->services->AuthorService.php code,

```
<?php  
namespace App\Services;  
  
use App\Traits\ConsumesExternalService;  
  
class AuthorService  
{  
    use ConsumesExternalService;  
  
    public $baseUri;  
  
    public function __construct()  
    {  
        $this->baseUri = config('services.authors.base_uri');  
    }  
}
```

Step 8: nirdharito created controller er moddhe services guloke set kore dewa holo, from AuthorController,

```
namespace App\Http\Controllers;

use App\Services\AuthService;
use Illuminate\Http\Request;
use App\Traits\ApiResponser;

class AuthorController extends Controller
{
    use ApiResponser;
    public $authorService;

    public function __construct(AuthService $authorService)
    {
        $this->authorService = $authorService;
    }

    public function index()
    {

    }
}
```