

## **Application Programming Interface**

Pertemuan 14

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# laravel api & mysql - swagger api doc



- Jalankan command composer require "darkaonline/I5-swagger"
- Nanti akan ada package baru tertulis di composer.json



- Jalankan command php artisan vendor:publish --provider "L5Swagger\L5SwaggerServiceProvider"
- Nanti akan ada file baru config/l5-swagger.php edit line 15 menjadi 'api' => ".

```
← composer.json M
               I5-swagger.php U X
config > @ I5-swagger.php
     return [
       'default' => 'default',
       'documentations' => [
       'title' => 'L5 Swagger UI',
       'routes' => [
       * Route for accessing api documentation interface
```



 Edit file routes/web.php comment bagian route /

```
← composer.json M
                    I5-swagger.php A
                                          web.php M X
routes > @ web.php > ...
       use Illuminate\Support\Facades\Route;
        ·Web · Routes
         routes are loaded by the RouteServiceProvider within a group which
         contains the "web" middleware group. Now create something great!
```

#### Edit file app/Controllers/Controller.php

```
Controller.php M X
app > Http > Controllers > @ Controller.php > 4 Controller
       * description="Made with ♥ by STMIK AMIK Bandung.",
       * version="1.0.0",
       * title="Laravel API Documentation",
       * email="akatgelar@gmail.com"
       * @OA\License(
       * url="http://www.apache.org/licenses/LICENSE-2.0.html"
       * @OA\SecurityScheme(
       * securityScheme="bearerAuth",
       * name="bearerAuth",
       * scheme="bearer",
       * bearerFormat="JWT",
       class Controller extends BaseController
```





```
AuthController.php M X
AuthController.php M X
app > Http > Controllers > Api > @ AuthController.php > ધ AuthController
                                                    app > Http > Controllers > Api > 🐡 AuthController.php > ધ AuthController
      * @OA\Post(
                                                         * description="OK",
      * path="/api/login",
                                                             * mediaType="application/json",
     * summary="",
     * description="Login",
     * operationId="auth login",
     mediaType="multipart/form-data",
      * @OA\Property(
     * property="email",
     * type="string"
                                                          public function login(Request $request)
         * @OA\Property(
                                                          $request->validate([
                                                          'email' => 'required|string|email',
     * type="string"
                                                          'password' => 'required|string',
                                                               $credentials = $request->only('email', 'password');
                                                         $token = Auth::attempt($credentials);
```

**Application Programming Interface** 



```
ProductController.php M X
app > Http > Controllers > Api > <sup>™</sup> ProductController.php > <sup>™</sup> ProductController > <sup>™</sup> index
     * path="/api/product",
     * summary="",
      * operationId="product index",
      * @OA\Parameter(
      * description="Per Page value is number. ex : ?per page=10",
      * required=false,
      * @OA\Parameter(
      * required=false,
      * in="query",
```

```
STMIK
```

```
ProductController.php M X
app > Http > Controllers > Api > ● ProductController.php > ← ProductController > ♦ index
     * @OA\Parameter(
     description="Sort value is string with rule column-name:order.ex:?sort=id:asc",
     * required=false,
     * @OA\Parameter(
     * required=false,
     * type="string"
     * @OA\Parameter(
     * in="query",
```



```
ProductController.php M X
app > Http > Controllers > Api > <sup>™</sup> ProductController.php > <sup>™</sup> ProductController > <sup>™</sup> index
      * description="OK",
      * @OA\MediaType(
 74
      * "status"=true,
      "message"="Get Data Successfull",
      * "data"={}
 78
 80
 81
      public function index(Request $request)
       // parameter
              $where = $request->has('where') ? $request->get('where') : '{}';
              $sort = $request->has('sort') ? $request->get('sort') : 'id:asc';
              $per page = $request->has('per page') ? $request->get('per page') : 2;
              $page = $request->has('page') ? $request->get('page') : 1;
             $count = $request->has('count') ? $request->get('count') : false;
              $search = $request->has('search') ? $request->get('search') : '';
```



```
ProductController.php M X
ProductController.php M X
                                                        app > Http > Controllers > Api > @ ProductController.php > 😭 ProductController > 😚 show
app > Http > Controllers > Api > 🐡 ProductController.php > 😭 ProductController >
                                                             * description="OK",
      * path="/api/product/{id}",
                                                        174
                                                             mediaType="application/json",
      * summary="",
                                                             * "success"=true,
      * @OA\Parameter(
      * name="id",
      * description="id",
      * required=true,
                                                             public function show($id)
                                                            // query get by id
```



```
ProductController.php M X
                                                        ProductController.php M X
                                                         app > Http > Controllers > Api > ProductController.php > 😝 ProductController > 😚 store
app > Http > Controllers > Api > 🐡 ProductController.php > 😭 ProductController > 😯 st
       * @OA\Post(
       * path="/api/product",
       * tags={"Product"},
       ····ˈ*···summarv="",
       * description="Insert data",
      * operationId="product store",
       * security={{"bearerAuth":{}}},
       * @OA\RequestBody(
       * mediaType="application/json",
                                                             * description="OK",
       * @OA\Property(
                                                                 * mediaType="application/json",
      * property="name",
          * @OA\Property(
         * property="image",
         * type="string"
          * @OA\Property(
                                                                public function store(Request $request)
          * property="description",
       * type="string"
                                                                   $query = Product::create($request->all());
```

```
ProductController.php M X
                                                                       ProductController.php M X
app > Http > Controllers > Api > 🐡 ProductController.php > ધ ProductController > 😚 update
                                                                        app > Http > Controllers > Api > 🐡 ProductController.php > 😭 ProductController > 😚 update
      * summary="",
      * @OA\Parameter(
      * description="id",
      property="name",
      * @OA\Property(
                                                                                 public function update(Request $request, $id)
```



```
ProductController.php M X
                                                     ProductController.php M X
app > Http > Controllers > Api > ProductController.php > 4 ProductControlle
                                                      app > Http > Controllers > Api > ProductController.php > 😝 ProductController > 👽 destroy
                                                           * description="OK",
      * path="/api/product/{id}",
      * tags={"Product"},
                                                               * mediaType="application/json",
      * summary="",
      * description="Delete data",
                                                                * "success"=true.
      * security={{"bearerAuth":{}}},
      * @OA\Parameter(
      * name="id",
      * description="id",
      * required=true.
                                                            public function destroy($id)
                                                           | // query insert
                                                                  $query = Product::findOrFail($id);
```



- Jalankan command php artisan I5-swagger:generate
- Akan terbentuk file /storage/api-docs/api-docs/json

```
← api-docs.json U X
storage > api-docs > (...) api-docs.json > ...
           "openapi": "3.0.0",
           "info": {
               "title": "Laravel API Documentation",
               "description": "Made with ♥ by STMIK AMIK Bandung.",
               "termsOfService": "http://swagger.io/terms/",
               "contact": {
                    "email": "akatgelar@gmail.com"
               "license": {
                    "name": "Apache 2.0",
                   "url": "http://www.apache.org/licenses/LICENSE-2.0.html"
               "version": "1.0.0"
           "paths": {
                "/api/login": {
                    "post": {
```

#### Buka url http://localhost:8000/



Swagger.

Supported by SMARTBEAR

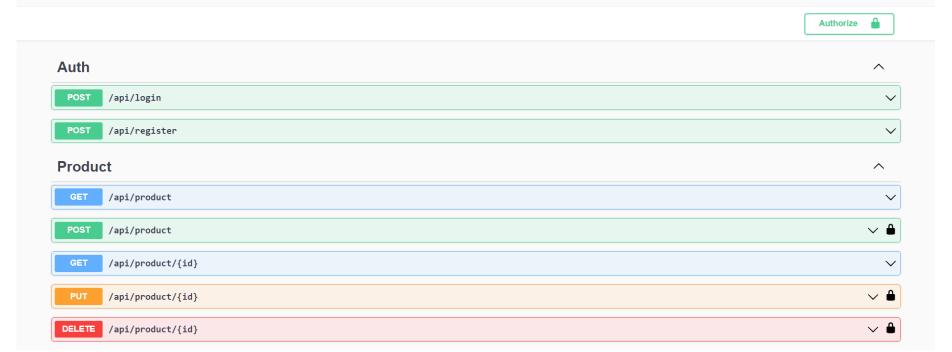
http://localhost:8000/docs/api-docs.json

Explore

#### Laravel API Documentation (ASS)

http://localhost:8000/docs/api-docs.json

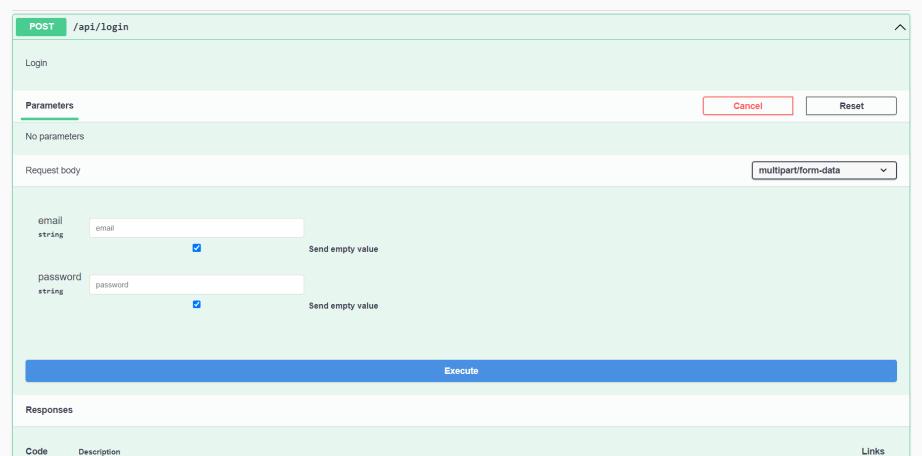
Made with ♥ by STMIK AMIK Bandung.



#### Login

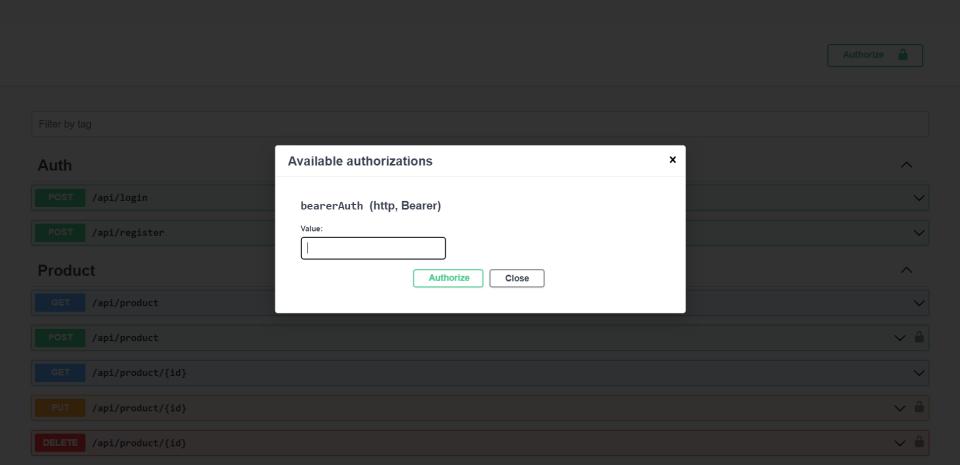


#### **Auth**



#### **Header Token**





### Try it out



GET /	/api/product/{id}			^
Get data by id	d			
Parameters				Cancel
Name	Description			
id * required	id			
(path)	1			
	Execute		Clear	
	Execute		Clear	
Responses	Execute		Clear	
	Execute		Clear	
Curl -X 'GET			Clear	
Curl  curl -X 'GEI 'http://lc -H 'accept -H 'X-CSRf Request URL	T' \ ocalhost:8000/api/product/l' \ t: application/json' \ F-TOKEN: '		Clear	
Curl  curl -X 'GEI 'http://lc -H 'accept -H 'X-CSRf Request URL	T' \ ocalhost:8000/api/product/1' \		Clear	
Curl  curl -X 'GEI 'http://lc -H 'accept -H 'X-CSRf Request URL	T' \ ocalhost:8000/api/product/l' \ t: application/json' \ F-TOKEN: ' nlhost:8000/api/product/l		Clear	

#### **Response Data**



```
Responses
Curl
curl -X 'GET' \
  'http://localhost:8000/api/product' \
  -H 'accept: application/json' \
   -H 'X-CSRF-TOKEN: '
Request URL
 http://localhost:8000/api/product
Server response
Code
            Details
200
            Response body
               "success": true,
               "message": "Get Data Successfull",
               "data": [
                   "id": 1,
                   "name": "kertas a4",
                   "image": "",
                   "description": "kertas 1 rim",
                   "type": "alat kantor",
                   "price": 40000,
                   "created_at": "2023-05-24T11:27:31.000000Z",
                   "updated_at": "2023-05-24T11:27:33.000000Z",
                   "created_date_indo": "Rabu, 24 Mei 2023 11:27:31"
                   "id": 3,
                   "name": "pensil",
                   "image": "",
                   "description": "",
                   "type": "",
                   "price": 0,
                   "created_at": null,
                   "updated_at": null,
                   "created_date_indo": "Selasa, 13 Juni 2023 21:17:54"
```