

# **Application Programming Interface**

Pertemuan 12

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# laravel api & mysql – GET, POST, PUT, DELETE



```
ProductController.php U X
app > Http > Controllers > Api > ● ProductController.php > 😝 ProductController > 😚 index
           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') : '';
               // prepare parameter
               $sort = explode(':', $sort);
               $where = str replace("'", "\"", $where);
               $where = json decode($where, true);
```



```
ProductController.php U X
app > Http > Controllers > Api > 🐡 ProductController.php > ધ ProductController > 😯 index
      // query get
      $query = Product::where([['id','>','0']]);
      // query where
      if($where){
      foreach($where as $key => $value) {
      $query = $query->where([[$key, '=', $value]]);
      // query search
       _____if($search){
       $query = $query->Where([['name', 'like', '%' . $search . '%']]);
       $query = $query->orWhere([['description', 'like', '%' . $search . '%']]);
       $query = $query->orWhere([['price', 'like', '%' . $search . '%']]);
```



```
ProductController.php U X
app > Http > Controllers > Api > ◎ ProductController.php > ધ ProductController > ♦ index
             // variable data
               $datas = [];
               $pagination = [];
               $pagination['page'] = (int)$page;
               $pagination['per_page'] = (int)$per_page;
               $pagination['total data'] = $query->count('id');
               $pagination['total page'] = ceil($pagination['total data'] / $pagination['per page']);
               if($count == true)
                   $query = $query->count('id');
                   $datas['count'] = $query;
```

#### **GET**



```
ProductController.php U X
app > Http > Controllers > Api > @ ProductController.php > 😭 ProductController > 😚 index
           $query = $query
           ->orderBy($sort[0], $sort[1])
          ->limit($per page)
           ->offset(($page - 1) * $per page)
          ->get()
           ->toArray();
          foreach($query as $qry) {
                     $temp = $qry;
                    $created at indo = \Carbon\Carbon::parse($temp['created at']);
                    $created at indo->locale('id')->settings(['formatFunction' => 'translatedFormat']);
                    $temp['created date indo'] = $created at indo->format('l, d F Y H:i:s');
                     array push($datas, $temp);
 85
             return new ProductResource(true, 'Get Data Successfull', $datas, $pagination);
```

#### **GET by Id**



```
ProductController.php U X
app > Http > Controllers > Api > 🚳 ProductController.php > ધ ProductController > 🗘 index
       public function show($id)
       $query = Product::find($id);
       $datas = $query;
       // pagination
       $pagination = [];
       return new ProductResource(true, 'Get Data By Id Successfull', $datas, $pagination);
```



```
ProductController.php U X
app > Http > Controllers > Api > ◎ ProductController.php > ધ ProductController > ♦ index
       public function store(Request $request)
       // query insert
       $query = Product::create($request->all());
       // variable data
       $datas = $query;
 110
 112
       $pagination = [];
       return new ProductResource(true, 'Insert Data Successfull', $datas, $pagination);
 114
 115
```

### PUT by Id



```
ProductController.php U X
app > Http > Controllers > Api > ● ProductController.php > 😝 ProductController > 🕏 index
       public function update(Request $request, $id)
117
118
       // query insert
119
120
       $query = Product::findOrFail($id);
       $query = $query->update($request->all());
121
122
       $query = Product::findOrFail($id);
124
125
       // variable data
126
       $datas = $query;
128
       // pagination
129
       $pagination = [];
130
       return new ProductResource(true, 'Update Data Successfull', $datas, $pagination);
```

## **DELETE** by Id



```
ProductController.php U X
app > Http > Controllers > Api > ProductController.php > ProductController > index
      public function destroy($id)
136
      // query insert
       $query = Product::findOrFail($id);
      $query = $query->delete();
      // variable data
       $datas = [];
      // pagination
       $pagination = [];
      return new ProductResource(true, 'Delete Data Successfull', $datas, $pagination);
```

Gunakan method GET Ketikan url "localhost:8000/api/product"

#### Dapat diberi parameter

- ?count=true
- ?sort=price:desc
- ?per page=2&page=1
- ?where={'name':'pensil 2b'}
- ?search=a4

```
Cookies Headers (10) Test Results
Body
  Pretty
           Raw
                    Preview
                               Visualize
            "success": true.
    2
            "message": "Get Data Successfull",
            "data": [
                    "id": 1,
                    "name": "kertas a4",
                    "image": "",
                    "description": "kertas 1 rim",
                    "type": "alat kantor",
   10
                    "price": 40000,
   11
                    "created at": "2023-05-24T11:27:31.000000Z",
   12
                    "updated_at": "2023-05-24T11:27:33.000000Z",
   13
                    "created_date_indo": "Rabu, 24 Mei 2023 11:27:31"
   14
   15
   16
            "pagination": {
   17
                "page": 1,
   18
                "per_page": 1,
   19
   20
                "total_data": 3,
                "total_page": 3
   21
   22
  23
```

localhost:8000/api/product?sort=price:desc&per\_page=1

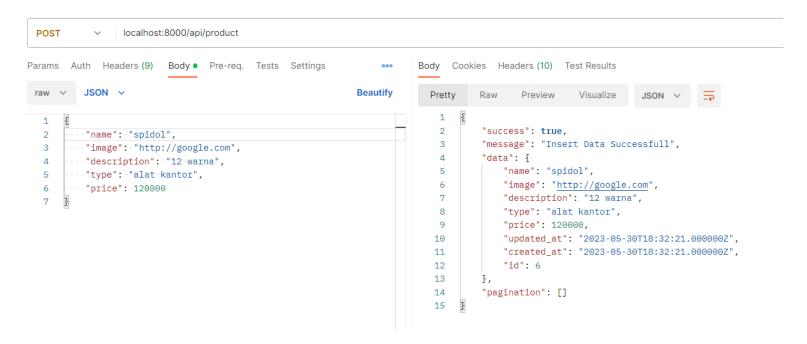
GET

Gunakan method GET Ketikan url "localhost:8000/api/product/1"

```
localhost:8000/api/product/1
GET
  Body
        Cookies Headers (10) Test Results
    Pretty
             Raw
                     Preview
                                 Visualize
                                             JSON V
              "success": true.
      2
      3
              "message": "Get Data By Id Successfull",
              "data": {
                  "id": 1.
                  "name": "kertas a4",
                  "image": "",
                  "description": "kertas 1 rim",
      8
                  "type": "alat kantor",
    10
                  "price": 40000,
    11
                  "created_at": "2023-05-24T11:27:31.000000Z",
                  "updated_at": "2023-05-24T11:27:33.000000Z"
    12
    13
              "pagination": []
    14
    15
```

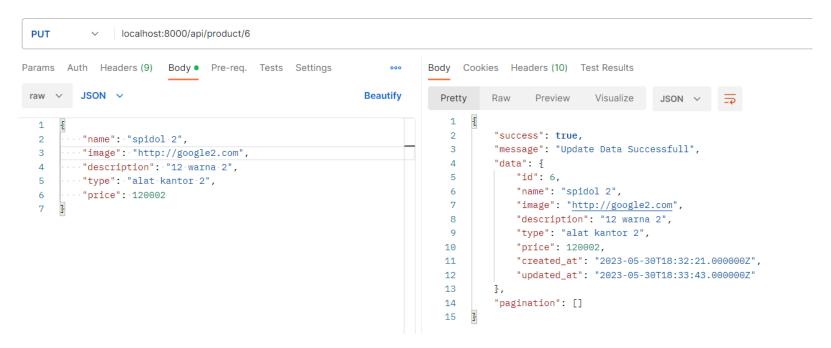


Gunakan method POST Ketikan url "localhost:8000/api/product" Isi Body -> Raw -> Json





Gunakan method PUT Ketikan url "localhost:8000/api/product/6" Isi Body -> Raw -> Json



Gunakan method DELETE Ketikan url "localhost:8000/api/product/6"

