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Jawaban

```
<?php

namespace App\Controllers\Api;

use CodeIgniter\HTTP\ResponseInterface;
use CodeIgniter\RESTful\ResourceController;

class Product extends ResourceController
{
    protected $modelName = 'App\Models\ProductModel';
    protected $format = 'json';

    public function __construct()
    {
        $this->model = model($this->modelName);
        if (! $this->model) {
            throw new \RuntimeException('Model tidak ditemukan: ' . $this->modelName);
        }
    }

    /**
     * Return an array of resource objects, themselves in array format.
     *
     * @return ResponseInterface
     */
    public function index()
    {
        return $this->respond($this->model->findAll(), 200, 'Products berhasil diambil.');
```

```

    * @return ResponseInterface
    */
    public function show($id = null)
    {
        if ($id === null) {
            return $this->failNotFound('ID tidak ditemukan.');
```

}

```

        $product = $this->model->find($id);
        if (! $product) {
            return $this->failNotFound('Produk dengan ID ' . $id . ' tidak
ditemukan.');
```

}

```

        return $this->respond($product, 200, 'Produk berhasil diambil.');
```

}

```

/**
 * Return a new resource object, with default properties.
 *
 * @return ResponseInterface
 */
    public function new()
    {
        return $this->respond(['message' => 'Untuk membuat product baru.'], 200,
'Siap untuk membuat produk baru.');
```

}

```

/**
 * Create a new resource object, from "posted" parameters.
 *
 * @return ResponseInterface
 */
    public function create()
    {
        $data = [
            'name'      => esc($this->request->getVar('name')),
            'price'     => esc($this->request->getVar('price')),
            'stock'     => esc($this->request->getVar('stock')),
        ];

        if (empty($data)) {
            return $this->fail('Data tidak ditemukan.', 400);
        }
    }

```

```

        $validation = \Config\Services::validation();
        if (! $this->model->insert($data)) {
            return $this->failValidationErrors($validation->getErrors());
        }

        return $this->respondCreated($data, 'Produk berhasil dibuat.');
```

```

    }
```

```

    /**
```

```

     * Return the editable properties of a resource object.
```

```

     *
```

```

     * @param int|string|null $id
```

```

     *
```

```

     * @return ResponseInterface
```

```

    */
```

```

    public function edit($id = null)
```

```

    {
```

```

        if ($id === null) {
```

```

            return $this->failNotFound('ID tidak ditemukan.');
```

```

        }
```

```

        $product = $this->model->find($id);
```

```

        if (! $product) {
```

```

            return $this->failNotFound('Produk dengan ID ' . $id . ' tidak
ditemukan.');
```

```

        }
```

```

        return $this->respond($product, 200, 'Produk berhasil diambil untuk
diedit.');
```

```

    }
```

```

    /**
```

```

     * Add or update a model resource, from "posted" properties.
```

```

     *
```

```

     * @param int|string|null $id
```

```

     *
```

```

     * @return ResponseInterface
```

```

    */
```

```

    public function update($id = null)
```

```

    {
```

```

        if ($id === null) {
```

```

            return $this->failNotFound('ID tidak ditemukan.');
```

```

        }
```

```

        $data = [
```

```

        'name'          => esc($this->request->getVar('name')),
        'price'         => esc($this->request->getVar('price')),
        'stock'         => esc($this->request->getVar('stock')),
    ];

    if (! $this->model->find($id)) {
        return $this->failNotFound('Produk dengan ID ' . $id . ' tidak
ditemukan.');
```

```

    }

    if (empty($data)) {
        return $this->fail('Data tidak ditemukan.', 400);
    }

    $validation = \Config\Services::validation();
    if (! $this->model->update($id, $data)) {
        return $this->failValidationErrors($validation->getErrors());
    }

    return $this->respondUpdated($data, 'Produk berhasil diperbarui.');
```

```

}

/**
 * Delete the designated resource object from the model.
 *
 * @param int|string|null $id
 *
 * @return ResponseInterface
 */
public function delete($id = null)
{
    if ($id === null) {
        return $this->failNotFound('ID tidak ditemukan.');
```

```

    }

    if (! $this->model->find($id)) {
        return $this->failNotFound('Produk dengan ID ' . $id . ' tidak
ditemukan.');
```

```

    }

    if (! $this->model->delete($id)) {
        return $this->fail('Gagal menghapus produk.', 500);
    }

    return $this->respondDeleted(['id' => $id], 'Produk berhasil dihapus.');
```



1. Read All Product

Rest-API Testing / read

GET http://localhost:8080/api/product

Send

Params Authorization Headers (6) Body Scripts Settings

Query Params

Key	Value	Description
Key	Value	Description

Body Cookies Headers (6) Test Results

200 Products berhasil diambil - 84 ms - 354 B

Save Response

```
1 {
2   {
3     "id": "1",
4     "name": "Komputer",
5     "price": "1.00",
6     "stock": "10"
7   },
8   {
9     "id": "2",
10    "name": "Koridor",
11    "price": "1.00",
12    "stock": "20"
13  }
14 }
```

2. Read One Product

Rest-API Testing

GET http://localhost:8080/api/products/1

Send

Params Authorization Headers (6) Body Scripts Settings

Query Params

Key	Value	Description
Key	Value	Description

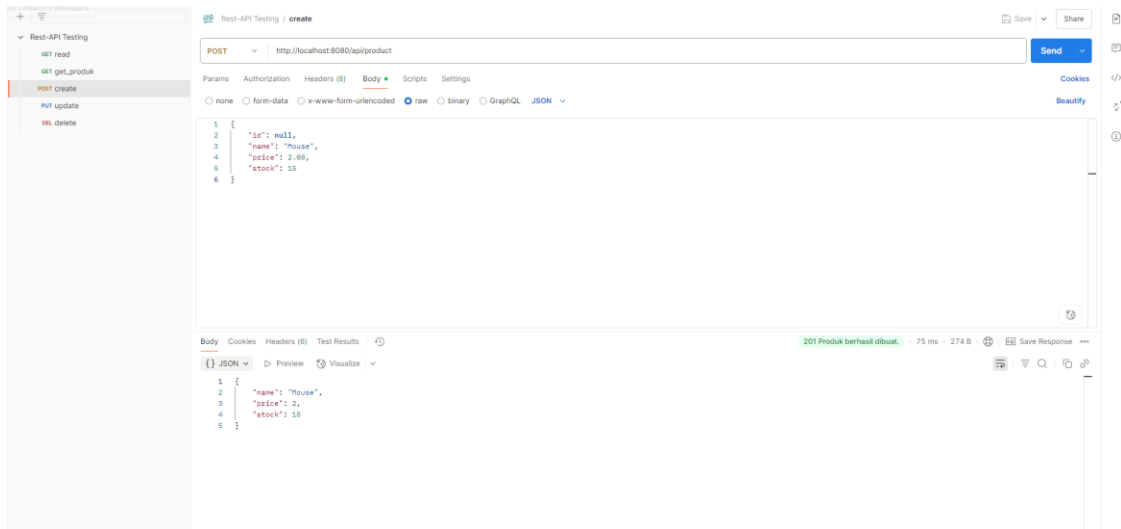
Body Cookies Headers (6) Test Results

200 Produk berhasil diambil - 82 ms - 294 B

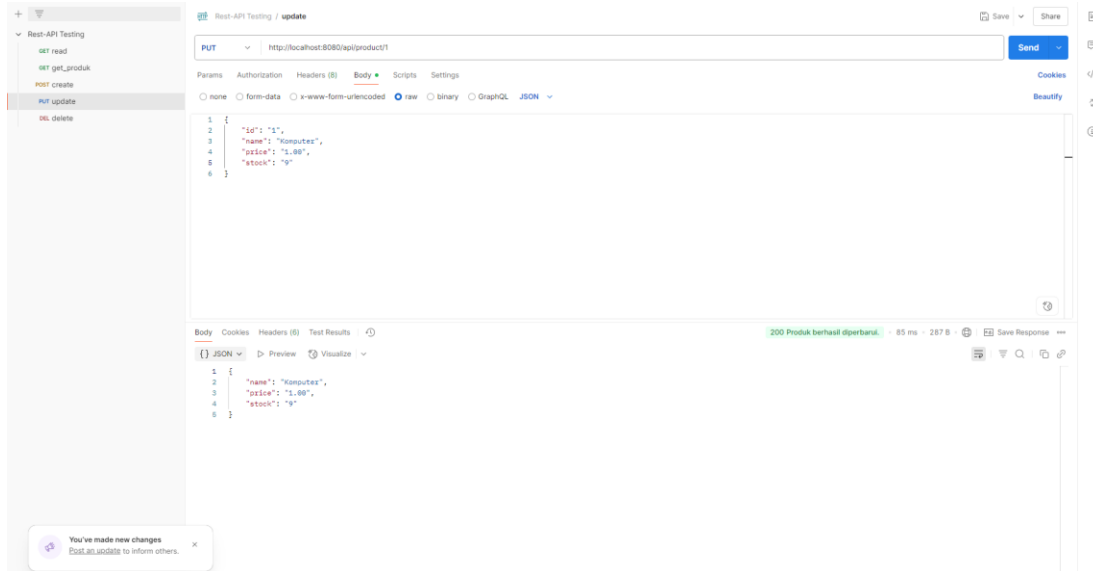
Save Response

```
1 {
2   "id": "1",
3   "name": "Komputer",
4   "price": "1.00",
5   "stock": "10"
6 }
```

3. Create Product



4. Update Product



5. Detele Product

Rest-API Testing / delete

SaveShare

DELETEhttp://localhost:8080/api/product/3Send

ParamsAuthorizationHeaders (8)BodyScriptsSettings

Query Params

Key	Value	Description	Bulk Edit
Key	Value	Description	

BodyCookiesHeaders (6)Test Results

200 Produk berhasil dihapus.67 ms · 248 BSave Response

JSONPreviewVisualize

```
1 {
2   "id": "3"
3 }
```

You've made new changes
Exit & update to inform others.