



Jurusan Teknologi Informasi Politeknik Negeri Malang  
**JOBSHEET 10 : RESTFUL API**  
Mata Kuliah Pemrograman Web Lanjut

Maret 2025

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**LEMBAR JAWABAN JOBSHEET**

Praktikum 1 – Membuat RESTful API Register

Install JWT

```
composer require tymon/jwt-auth:2.1.1
```

Publish konfigurasi

```
php artisan vendor:publish --provider="Tymon\JWTAuth\Providers\LaravelServiceProvider"
```

Buat key untuk JWT

```
php artisan jwt:secret
```

```
auth.php

    'guards' => [
        'web' => [
            'driver' => 'session',
            'provider' => 'users',
        ],
        'api' => [
            'driver' => 'jwt',
            'provider' => 'users',
        ],
    ],
```



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Penambahkan kode di UserModul

UserModel.php

```
use Tymon\JWTAuth\Contracts\JWTSubject;

class UserModel extends Authenticatable implements JWTSubject
{
    no usages
    public function getJWTIdentifier()
    {
        return $this->getKey();
    }

    no usages
    public function getJWTCustomClaims()
    {
        return [];
    }
}
```

Buat controller untuk Api

```
php artisan make:controller Api/RegisterController
```



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RegisterController.php

```
<?php

namespace App\Http\Controllers\Api;

use App\Http\Controllers\Controller;
use App\Models\UserModel;
use Illuminate\Http\Request;
use Illuminate\Support\Facades\Validator;

1 usage
class RegisterController extends Controller
{
    no usages
    public function __invoke(Request $request)
    {
        $validator = Validator::make($request->all(), [
            'username' => 'required',
            'nama' => 'required',
            'password' => 'required|min:5|confirmed',
            'level_id' => 'required'
        ]);
        if ($validator->fails()) {
            return response()->json($validator->errors(), status: 422);
        }
        $user = UserModel::create([
            'username' => $request->username,
            'nama' => $request->nama,
            'password' => bcrypt($request->password),
            'level_id' => $request->level_id
        ]);
        if ($user) {
            return response()->json([
                'success' => true,
                'user' => $user,
            ], status: 201);
        }
        return response()->json([
            'success' => false,
        ], status: 409);
    }
}
```



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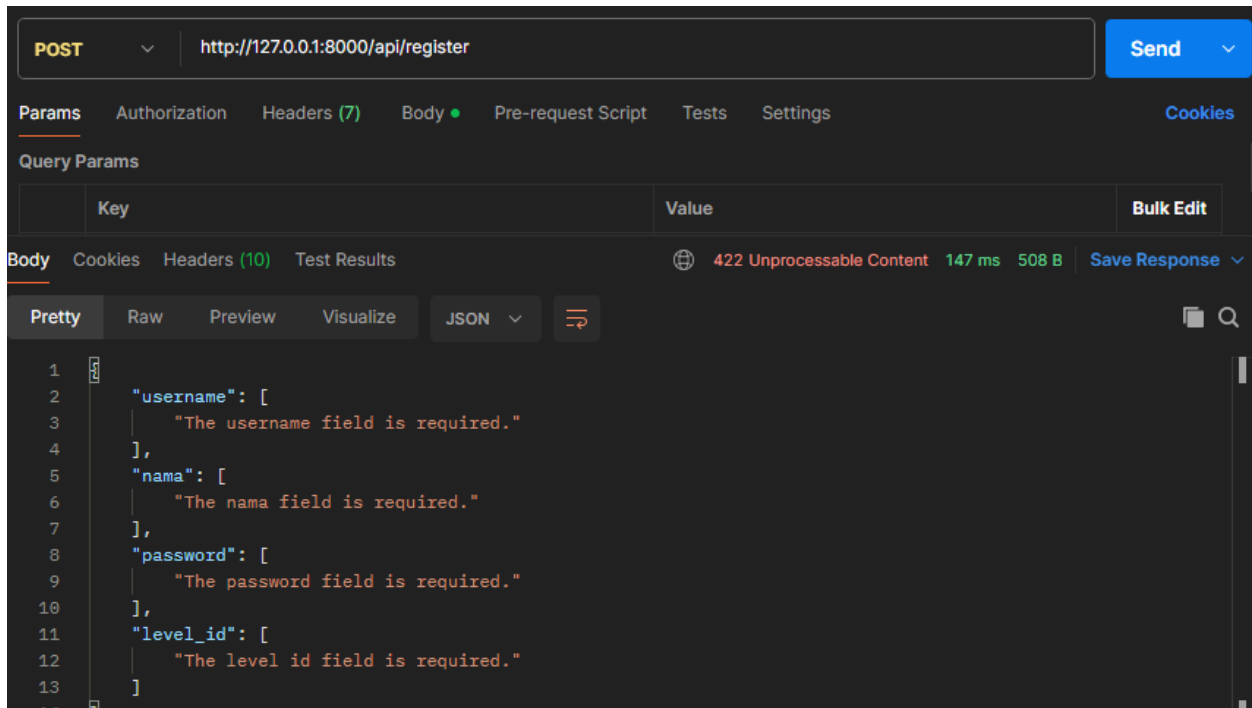
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Tambahkan kode untuk api resister

```
api.php
Route::post('uri: '/register', action: \App\Http\Controllers\Api\RegisterController::class)->name(name: 'register');
```

Jalankan Laravel dan buka dengan postman



Tambahkan body dan pesan akan sukses



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POST http://127.0.0.1:8000/api/register Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary

	Key	Value	...	Bulk Edit
<input checked="" type="checkbox"/>	username	penggunasatu.		
<input checked="" type="checkbox"/>	nama	pengguna 1		
<input checked="" type="checkbox"/>	password	123456		
<input checked="" type="checkbox"/>	password_confirmation	123456		
<input checked="" type="checkbox"/>	level_id	2		

Body Cookies Headers (10) Test Results 201 Created 358 ms 498 B Save Response

Pretty Raw Preview Visualize JSON

```
1  {
2    "success": true,
3    "user": {
4      "username": "penggunasatu.",
5      "nama": "pengguna 1",
6      "level_id": "2",
7      "updated_at": "2025-04-21T15:58:43.000000Z",
8      "created_at": "2025-04-21T15:58:43.000000Z",
9      "user_id": 9
10   }
11 }
```



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Praktikum 2 – Membuat RESTful API Login

Buat controller untuk api controller

```
php artisan make:controller Api/LoginController
```

Isi dengan



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LoginController.php

```
<?php

namespace App\Http\Controllers\Api;

use App\Http\Controllers\Controller;
use Illuminate\Http\Request;
use Illuminate\Support\Facades\Validator;

1 usage
class LoginController extends Controller
{
    no usages
    public function __invoke(Request $request)
    {
        $validator = Validator::make($request->all(), [
            'username' => 'required',
            'password' => 'required',
        ]);
        if ($validator->fails()) {
            return response()->json($validator->errors(), status: 422);
        }
        $credentials = $request->only( keys: 'username', 'password');
        if (!$token = auth()->guard( name: 'api')->attempt($credentials)) {
            return response()->json([
                'success' => false,
                'message' => 'Username or password is incorrect',
            ], status: 401);
        }
        return response()->json([
            'success' => true,
            'token' => $token,
            'user' => auth()->guard( name: 'api')->user(),
        ], status: 200);
    }
}
```



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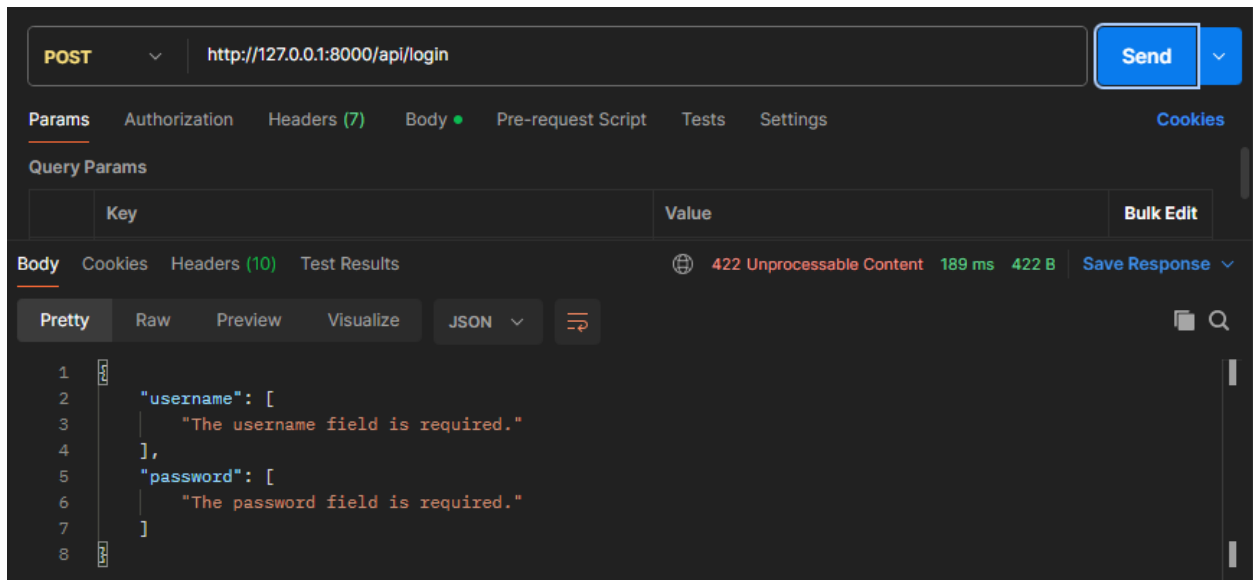
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Tambahkan route untuk api login

```
api.php
Route::post(uri: '/login', action: \App\Http\Controllers\Api>LoginController::class)->name(name: 'login');
```

Uji coba tan

pa body







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Masukan body untuk login

The screenshot shows a REST client interface with the following details:

- Method:** POST
- URL:** http://127.0.0.1:8000/api/login
- Body Type:** form-data
- Body Data:**

Key	Value
username	penggunasatu
password	123456
- Response Status:** 200 OK, 473 ms, 817 B
- Response Body (JSON):**

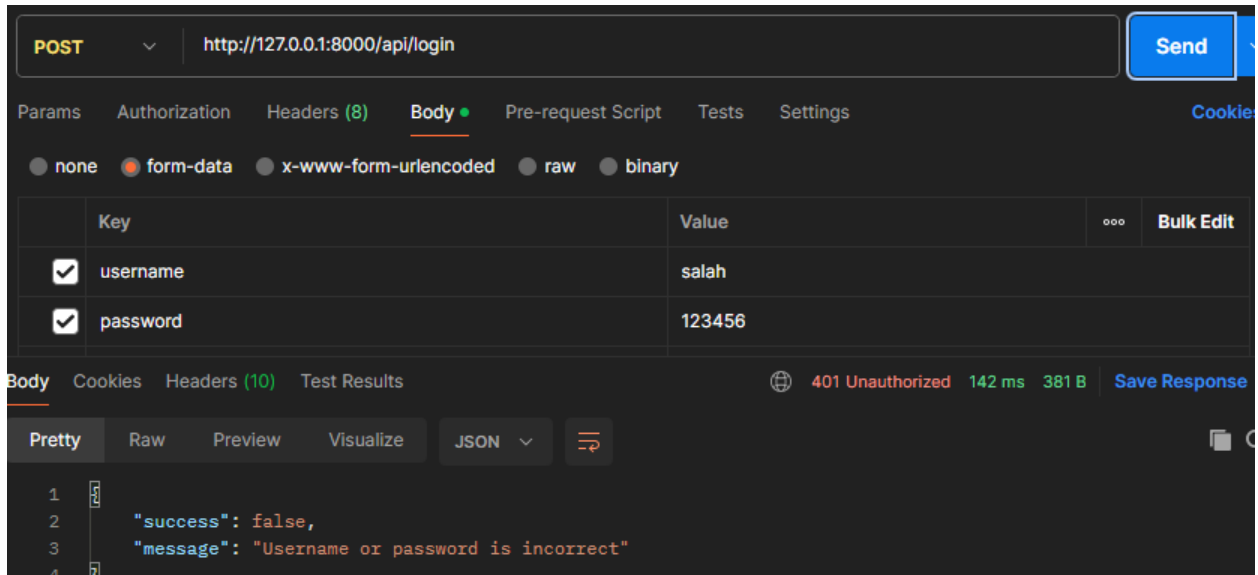
```
{  "success": true,  "token": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vMTI3LjAuMC4xOjgwMDAvYXBpL2xvZ2luIiwiaWF0IjoxNzQ1MjUyNDcxLCJleHAiOiE3NDUyNTYwNzEsIm5iZiI6MTc0NTI1MjQ3MSwianRpIjo1UnZ0YkM4M3Ezc3AwemJYQyIsInN1YiI6IjciLCJwcnYiOiI0MWRmODgzNGYxYjk4ZjcwZWZhbjBhYWVkbWV0MjM0MDA2OTBjIn0.WDn0uzU8HWx-DohkkJXerxQdVdqJCtWR8KWL0Lug6-0",  "user": {    "user_id": 7,    "level_id": 2,    "username": "penggunasatu",    "nama": "pengguna 1",    "created_at": "2025-04-21T15:44:55.000000Z",    "updated_at": "2025-04-21T15:44:55.000000Z"  }}
```



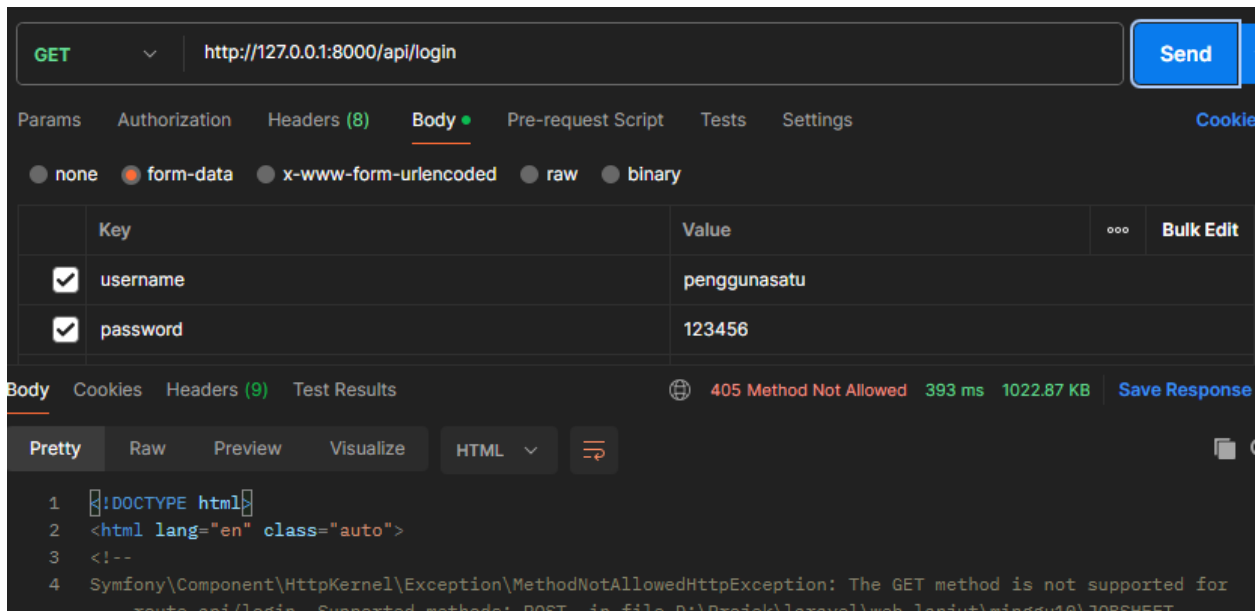
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Uji coba salah



Input benar dengan method get terjadi masalah method di diperbolehkan





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Praktikum 3 – Membuat RESTful API Logout

Menambahkan kode di .env

```
.env  
  
JWT_SHOW_BLACKLIST_EXCEPTION=true
```

Buat controller untuk api logout

```
php artisan make:controller Api/LogoutController
```



LogoutController.php

```
<?php

namespace App\Http\Controllers\Api;

use App\Http\Controllers\Controller;
use Illuminate\Http\Request;
use Tymon\JWTAuth\Facades\JWTAuth;

1 usage
class LogoutController extends Controller
{
    no usages
    public function __invoke(Request $request)
    {
        $remoteToken = JWTAuth::invalidate(JWTAuth::getToken());

        if ($remoteToken) {
            return response()->json([
                'success' => true,
                'message' => 'Logout successful',
            ]);
        }
    }
}
```



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Tambahkan route untuk api logout

```
api.php
Route::post('uri: '/logout', action: \App\Http\Controllers\Api\LogoutController::class)->name('name: 'logout');
```

Salin token dari output login tambahkan ke token logout

The screenshot shows a REST client interface with the following details:

- Method:** POST
- URL:** http://127.0.0.1:8000/api/logout
- Authorization:** Bearer token is set to `eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ...`
- Response:** 200 OK, 133 ms, 354 B. The response body is JSON: `{\"success\": true, \"message\": \"Logout successful\"}`



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Praktikum 4 – Implementasi CRUD dalam RESTful API

Membuat controller untuk api level

```
. \Proyek\caravel\web_lanjut\minggo10\JOBSHEET 10\
php artisan make:controller Api/LevelController
```



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LevelController.php

```
<?php

namespace App\Http\Controllers\Api;

use App\Http\Controllers\Controller;
use App\Models\LevelModel;
use Illuminate\Http\Request;

5 usages
class LevelController extends Controller
{
    public function index()
    {
        return LevelModel::all();
    }

    public function store(Request $request)
    {
        $level = LevelModel::create($request->all());
        return response()->json($level, status: 201);
    }

    public function show(LevelModel $level)
    {
        return LevelModel::find($level);
    }

    public function update(Request $request, LevelModel $level)
    {
        $level->update($request->all());
        return LevelModel::find($level);
    }

    public function destroy(LevelModel $user)
    {
        $user->delete();

        return response()->json([
            'success' => true,
            'message' => 'Data terhapus'
        ]);
    }
}
```



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Tambahkan route untuk api crud level

```
api.php
Route::get( uri: '/levels', [\App\Http\Controllers\Api\LevelController::class, 'index']);
Route::post( uri: '/levels', [\App\Http\Controllers\Api\LevelController::class, 'store']);
Route::get( uri: '/levels/{level}', [\App\Http\Controllers\Api\LevelController::class, 'show']);
Route::put( uri: '/levels/{level}', [\App\Http\Controllers\Api\LevelController::class, 'update']);
Route::delete( uri: '/levels/{level}', [\App\Http\Controllers\Api\LevelController::class, 'destroy']);
```

Get <http://127.0.0.1:8000/api/levels>

The screenshot shows a web browser interface with a GET request to <http://127.0.0.1:8000/api/levels>. The response is a JSON array with two objects, each representing a level. The first object is for the Administrator level, and the second is for the Manager level. Both objects have fields for level\_id, level\_kode, level\_nama, created\_at, and updated\_at.

```
[
  {
    "level_id": 1,
    "level_kode": "ADM",
    "level_nama": "Administrator",
    "created_at": null,
    "updated_at": null
  },
  {
    "level_id": 2,
    "level_kode": "MNG",
    "level_nama": "Manager",
    "created_at": null,
    "updated_at": null
  }
]
```

Post <http://127.0.0.1:8000/api/levels>





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POST <http://127.0.0.1:8000/api/levels> Send

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies

☐ none ☒ form-data ☐ x-www-form-urlencoded ☐ raw ☐ binary

Key	Value
level_kode	SPR
level_nama	Supervisor

Body Cookies Headers (10) Test Results 201 Created 176 ms 459 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "level_kode": "SPR",
3   "level_nama": "Supervisor",
4   "updated_at": "2025-04-21T16:46:23.000000Z",
5   "created_at": "2025-04-21T16:46:23.000000Z",
6   "level_id": 14
7 }
```

Get <http://127.0.0.1:8000/api/levels/{level}>

GET <http://127.0.0.1:8000/api/levels/1> Send

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies

☐ none ☒ form-data ☐ x-www-form-urlencoded ☐ raw ☐ binary

Key	Value
-----	-------

Body Cookies Headers (10) Test Results 200 OK 167 ms 408 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "level_id": 1,
3   "level_kode": "ADM",
4   "level_nama": "Administrator",
5   "created_at": null,
6   "updated_at": null
7 }
```



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Put <http://127.0.0.1:8000/api/levels/{level}>

PUT [http://127.0.0.1:8000/api/levels/14?level\\_kode=SPR](http://127.0.0.1:8000/api/levels/14?level_kode=SPR) Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary

Key	Value	...	Bulk Edit
<input checked="" type="checkbox"/> level_kode	SPR		

Body Cookies Headers (10) Test Results 200 OK 190 ms 456 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "level_id": 14,
4     "level_kode": "SPR",
5     "level_nama": "Supervisor",
6     "created_at": "2025-04-21T16:46:23.000000Z",
7     "updated_at": "2025-04-21T16:46:23.000000Z"
8   }
9 }
```

Delete <http://127.0.0.1:8000/api/levels/{level}>

DELETE <http://127.0.0.1:8000/api/levels/14> Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (10) Test Results 200 OK 165 ms 350 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "success": true,
3   "message": "Data terhapus"
4 }
```



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## TUGAS

Implementasikan CRUD API pada tabel lainnya yaitu tabel m\_user, m\_kategori, dan m\_barang

CRUD dari:

m\_user

```
GET http://127.0.0.1:8000/api/users Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (10) Test Results 200 OK 224 ms 1.84 KB Save Response

Pretty Raw Preview Visualize JSON

1 {
2   {
3     "user_id": 1,
4     "level_id": 1,
5     "username": "admin",
6     "nama": "Administrator",
7     "created_at": null,
8     "updated_at": null,
9     "image": ""
10  },
11  {
12    "user_id": 2,
13    "level_id": 2,
14    "username": "manager",
15    "nama": "Manager",
16    "created_at": null,
17    "updated_at": null,
18    "image": ""
19  },
20 }
```



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POST http://127.0.0.1:8000/api/users Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary

Key	Value	Bulk Edit
<input checked="" type="checkbox"/> username	penggunaenam	
<input checked="" type="checkbox"/> nama	pengguna6	
<input checked="" type="checkbox"/> password	123456	
<input checked="" type="checkbox"/> level_id	2	

Body Cookies Headers (10) Test Results 201 Created 519 ms 473 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "username": "penggunaenam",
3   "nama": "pengguna6",
4   "level_id": "2",
5   "updated_at": "2025-04-24T19:53:30.000000Z",
6   "created_at": "2025-04-24T19:53:30.000000Z",
7   "user_id": 13
8 }
```



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```
GET http://127.0.0.1:8000/api/users/13 Send
Params Authorization Headers (8) Body • Pre-request Script Tests Settings Cookies
Body Cookies Headers (10) Test Results 200 OK 138 ms 593 B Save Response
Pretty Raw Preview Visualize JSON
1 {
2   {
3     "user_id": 2,
4     "level_id": 2,
5     "username": "manager",
6     "nama": "Manager",
7     "created_at": null,
8     "updated_at": null,
9     "image": ""
10  },
11  {
12    "user_id": 13,
13    "level_id": 2,
14    "username": "penggunaenam",
15    "nama": "pengguna6",
16    "created_at": "2025-04-24T19:53:30.000000Z",
17    "updated_at": "2025-04-24T19:53:30.000000Z",
18    "image": null
19  }
20 }
```

```
GET http://127.0.0.1:8000/api/users/13 Send
Params Authorization Headers (8) Body • Pre-request Script Tests Settings Cookies
Body Cookies Headers (10) Test Results 200 OK 144 ms 479 B Save Response
Pretty Raw Preview Visualize JSON
1 {
2   "user_id": 13,
3   "level_id": 2,
4   "username": "penggunaenam",
5   "nama": "pengguna6",
6   "created_at": "2025-04-24T19:53:30.000000Z",
7   "updated_at": "2025-04-24T19:53:30.000000Z",
8   "image": null
9 }
```



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PUT ▼ http://127.0.0.1:8000/api/users/13?username=userdiubah Send ▼

Params ● Authorization Headers (7) Body ● Pre-request Script Tests Settings Cookies

Body Cookies Headers (10) Test Results 🌐 201 Created 142 ms 482 B Save Response ▼

Pretty Raw Preview Visualize JSON ▼ ⋮

```
1  {
2    "user_id": 13,
3    "level_id": 2,
4    "username": "userdiubah",
5    "nama": "pengguna6",
6    "created_at": "2025-04-24T19:53:30.000000Z",
7    "updated_at": "2025-04-24T20:10:42.000000Z",
8    "image": null
9  }
```

DELETE ▼ http://127.0.0.1:8000/api/users/12 Send ▼

Params ● Authorization Headers (6) Body ● Pre-request Script Tests Settings Cookies

Body Cookies Headers (10) Test Results 🌐 200 OK 124 ms 350 B Save Response ▼

Pretty Raw Preview Visualize JSON ▼ ⋮

```
1  {
2    "success": true,
3    "message": "Data terhapus"
4  }
```



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m\_kategori

The screenshot shows a REST client interface with a GET request to `http://127.0.0.1:8000/api/kategoris`. The response is a JSON array of three category objects, each with `kategori_id`, `kategori_kode`, `kategori_nama`, `created_at`, and `updated_at` fields. The status is 200 OK, and the response size is 1.19 KB.

```
1  [
2    {
3      "kategori_id": 1,
4      "kategori_kode": "MKN",
5      "kategori_nama": "Makanan",
6      "created_at": null,
7      "updated_at": null
8    },
9    {
10     "kategori_id": 2,
11     "kategori_kode": "MNM",
12     "kategori_nama": "Minuman",
13     "created_at": null,
14     "updated_at": null
15   },
16   {
17     "kategori_id": 3,
18     "kategori_kode": "DRK",
19     "kategori_nama": "Dessert",
20     "created_at": null,
21     "updated_at": null
22   },
23 ]
```



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POST http://127.0.0.1:8000/api/kategoris Send

Params Authorization Headers (8) Body • Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary

key	value
<input checked="" type="checkbox"/> kategori_kode	TEST
<input checked="" type="checkbox"/> kategori_nama	KATEGORI NAMA

Body Cookies Headers (10) Test Results 201 Created 143 ms 472 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "kategori_kode": "TEST",
3   "kategori_nama": "KATEGORI NAMA",
4   "updated_at": "2025-04-24T20:13:10.000000Z",
5   "created_at": "2025-04-24T20:13:10.000000Z",
6   "kategori_id": 10
7 }
```

GET http://127.0.0.1:8000/api/kategoris/10 Send

Params Authorization Headers (6) Body • Pre-request Script Tests Settings Cookies

Body Cookies Headers (10) Test Results 200 OK 134 ms 469 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "kategori_id": 10,
3   "kategori_kode": "TEST",
4   "kategori_nama": "KATEGORI NAMA",
5   "created_at": "2025-04-24T20:13:10.000000Z",
6   "updated_at": "2025-04-24T20:13:10.000000Z"
7 }
```





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**JOBSHEET 10 : RESTFUL API**  
Mata Kuliah Pemrograman Web Lanjut

*Maret 2025*

PUT  Send

Params • Authorization Headers (7) Body • Pre-request Script Tests Settings Cookies

Body Cookies Headers (10) Test Results 200 OK 129 ms 465 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "kategori_id": 10,
3   "kategori_kode": "TEST",
4   "kategori_nama": "GANTINAMA",
5   "created_at": "2025-04-24T20:13:10.000000Z",
6   "updated_at": "2025-04-24T20:19:15.000000Z"
7 }
8
9
```

DELETE  Send

Params Authorization Headers (6) Body • Pre-request Script Tests Settings Cookies

Body Cookies Headers (10) Test Results 200 OK 138 ms 350 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "success": true,
3   "message": "Data terhapus"
4 }
```



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m\_barang

The screenshot shows a REST client interface with a GET request to `http://127.0.0.1:8000/api/barangs`. The response is a JSON array of two objects, each representing a product. The status is 200 OK, with a response time of 128 ms and a size of 2.01 KB.

```
1 {
2   {
3     "barang_id": 1,
4     "kategori_id": 1,
5     "barang_kode": "MKN-001",
6     "barang_nama": "Nasi Goreng",
7     "harga_beli": 10000,
8     "harga_jual": 15000,
9     "created_at": null,
10    "updated_at": null
11  },
12  {
13    "barang_id": 2,
14    "kategori_id": 2,
15    "barang_kode": "MNM-002",
16    "barang_nama": "ES Degan",
17    "harga_beli": 8000,
18    "harga_jual": 12000,
19    "created_at": null,
20    "updated_at": null
21  }
```



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POST http://127.0.0.1:8000/api/barangs Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary

<input checked="" type="checkbox"/> kategori_id	1
<input checked="" type="checkbox"/> barang_kode	MKN-TEST
<input checked="" type="checkbox"/> barang_nama	TEST-INPUT
<input checked="" type="checkbox"/> harga_jual	10000
<input checked="" type="checkbox"/> harga_beli	9000

Body Cookies Headers (10) Test Results 201 Created 141 ms 526 B Save Response

Pretty Raw Preview Visualize JSON

```
1  {"kategori_id": "1",
2   "barang_kode": "MKN-TEST",
3   "barang_nama": "TEST-INPUT",
4   "harga_jual": "10000",
5   "harga_beli": "9000",
6   "updated_at": "2025-04-24T20:21:48.000000Z",
7   "created_at": "2025-04-24T20:21:48.000000Z",
8   "barang_id": 12
9 }
```

GET http://127.0.0.1:8000/api/barangs/12 Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (10) Test Results 200 OK 240 ms 515 B Save Response

Pretty Raw Preview Visualize JSON

```
1  {"barang_id": 12,
2   "kategori_id": 1,
3   "barang_kode": "MKN-TEST",
4   "barang_nama": "TEST-INPUT",
5   "harga_beli": 9000,
6   "harga_jual": 10000,
7   "created_at": "2025-04-24T20:21:48.000000Z",
8   "updated_at": "2025-04-24T20:21:48.000000Z"
9 }
```



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**PUT** `http://127.0.0.1:8000/api/barangs/12?barang_kode=GANTI-KODE` **Send**

Params • Authorization Headers (8) Body • Pre-request Script Tests Settings Cookies

**Body** Cookies Headers (10) Test Results 200 OK 117 ms 517 B [Save Response](#)

Pretty Raw Preview Visualize JSON

```
1 {
2   "barang_id": 12,
3   "kategori_id": 1,
4   "barang_kode": "GANTI-KODE",
5   "barang_nama": "TEST-INPUT",
6   "harga_beli": 9000,
7   "harga_jual": 10000,
8   "created_at": "2025-04-24T20:21:48.000000Z",
9   "updated_at": "2025-04-24T20:24:17.000000Z"
10 }
```

**DELETE** `http://127.0.0.1:8000/api/barangs/12` **Send**

Params Authorization Headers (8) Body • Pre-request Script Tests Settings Cookies

**Body** Cookies Headers (10) Test Results 200 OK 126 ms 350 B [Save Response](#)

Pretty Raw Preview Visualize JSON

```
1 {
2   "success": true,
3   "message": "Data terhapus"
4 }
```