# LAPORAN TUGAS PEMROGRAMAN WEB LANJUT

### **Jobsheet 14**



#### Disusun Oleh:

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## PROGRAM STUDI TEKNIK INFORMATIKA JURUSAN TEKNOLOGI INFORMASI POLITEKNIK NEGERI MALANG

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2020

## Membuat RESTful API di Laravel C:\xampp\htdocs>laravel new laravel-restapi Crafting application... Loading composer repositories with package information Installing dependencies (including require-dev) from lock file Package operations: 92 installs, 0 updates, 0 removals - Installing doctrine/inflector (1.3.1): Loading from cache - Installing doctrine/lexer (1.2.0): Loading from cache - Installing dragonmantank/cron-expression (v2.3.0): Loading from cach - Installing voku/portable-ascii (1.4.10): Loading from cache - Installing symfony/polyfill-ctype (v1.15.0): Loading from cache - Installing phpoption/phpoption (1.7.3): Loading from cache - Installing vlucas/phpdotenv (v4.1.5): Downloading (100%) - Installing symfony/css-selector (v5.0.8): Loading from cache Installing tijsverkoyen/css-to-inline-styles (2.2.2): Loading from c - Installing symfony/polyfill-mbstring (v1.15.0): Loading from cache - Installing symfony/var-dumper (v5.0.8): Downloading (100%) - Installing symfony/routing (v5.0.8): Downloading (100%) - Installing symfony/process (v5.0.8): Downloading (100%) Application key set successfully. > Illuminate\Foundation\ComposerScripts::postAutoloadDump > @php artisan package:discover --ansi Discovered Package: facade/ignition Discovered Package: fideloper/proxy Discovered Package: fruitcake/laravel-cors Discovered Package: laravel/tinker Discovered Package: nesbot/carbon Discovered Package: nunomaduro/collision Package manifest generated successfully. Application ready! Build something amazing. C:\xampp\htdocs>\_



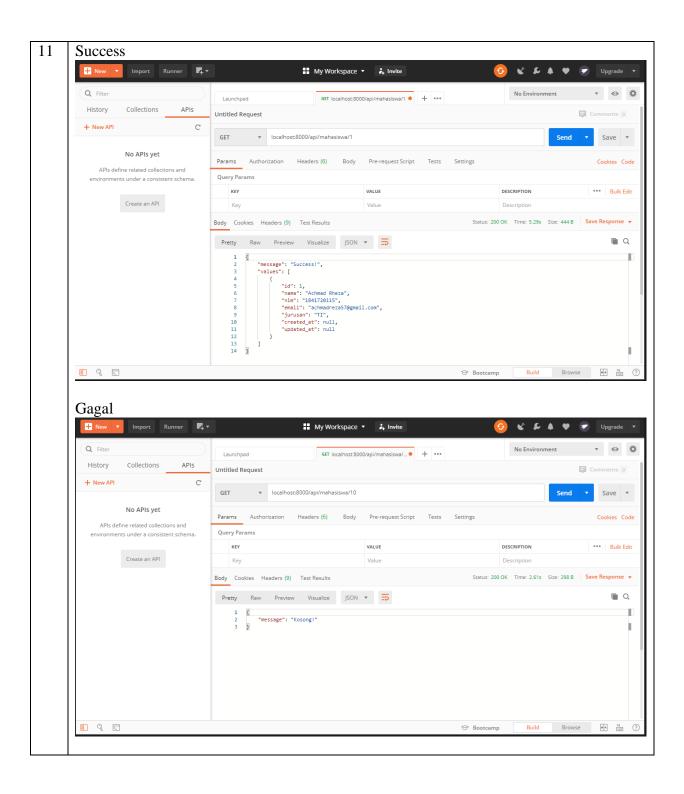
```
app > 🦬 Mahasiswa.php
             <?php
            namespace App;
            use Illuminate\Database\Eloquent\Model;
            class Mahasiswa extends Model
                protected $table = 'mahasiswa';
       11
      app > Http > Controllers > 🦬 MahasiswaController.php
6
            <?php
            namespace App\Http\Controllers;
            use Illuminate\Http\Request;
            use App\Mahasiswa;
            class MahasiswaController extends Controller
                 //fungsi index digunakan untuk menampil
       11 🗸
                 public function index(){
       12
                     $data - Mahasiswa::all();
       13
                     //cek data tidak kosong
       15 V
                     if(count($data) > 0){
                         $res['message'] = "Success!";
                         $res['values'] = $data;
                         return response($res);
                     //jika data kosong
                     else{
       21 🗸
                         $res['message'] = "Kosong!";
                         return response($res);
```

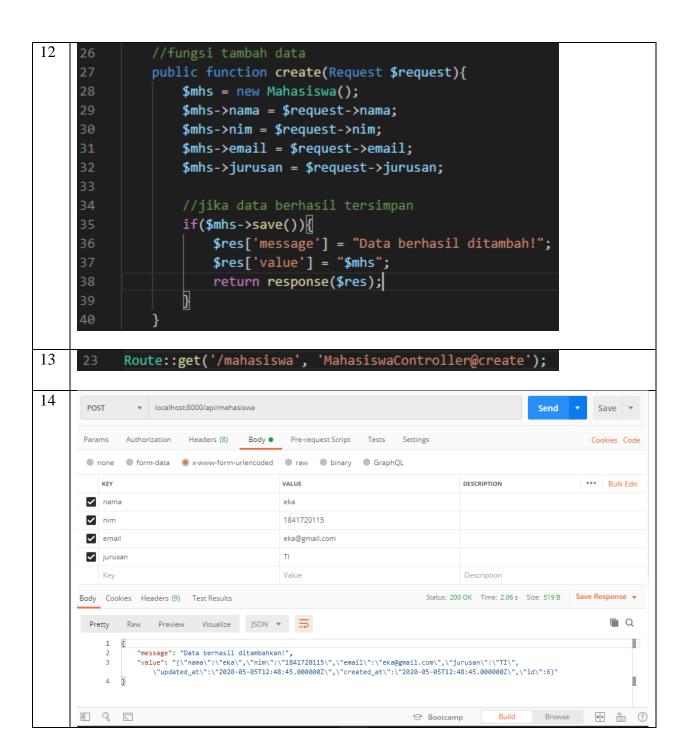
```
routes > 📅 api.php
                      <?php
                     use Illuminate\Http\Request;
                     use Illuminate\Support\Facades\Route;
                      API Routes
             11
                      Here is where you can register API routes for your application
                      routes are loaded by the RouteServiceProvider within a group
             12
                      | is assigned the "api" middleware group. Enjoy building your AF
             13
                      Route::middleware('auth:api')->get('/user', function (Request $r
             17
                            return $request->user();
                      });
             21
                     Route::get('mahasiswa', 'MahasiswaController@index');
8
                                                            ■ My Workspace ▼ 🗼 Invite
         Q Filter
                                                                GET localhost:8000/api/mahasiswa • + •••
                                         Launchpad
          History
                                APIs
                                                                                                                            Cor
                                        Untitled Request
         + New API
                                        GET ▼ localhost:8000/api/mahasiswa
                   No APIs yet
                                        Params Authorization Headers (6) Body Pre-request Script Tests
             APIs define related collections and
                                        Query Params
           environments under a consistent schema.
                                           KEY
                                                                                                          DESCRIPTION
                                                                           VALUE
                  Create an API
                                           Kev
                                                                           Value
                                                                                                          Description
                                       Body Cookies Headers (9) Test Results
                                                                                                  Status: 200 OK Time: 1606ms Size: 745 B Save R
                                        Pretty Raw Preview Visualize JSON ▼ 👼
                                                 "message": "Success!",
"values": [
                                                      "id": 1,
"nama": "Achmad Rheza",
"nim": "1841720115",
"email": "achmadrez670gmail.com",
"jurusan": "II",
"created_at": null,
"updated_at": null
                                           10
11
12
                                           13
                                                       "id": 4,
"nama": "Rahmat men",

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        ■ 9 ■
```

```
10
     routes > 💝 api.php
            <?php
            use Illuminate\Http\Request;
            use Illuminate\Support\Facades\Route;
            API Routes
            Here is where you can register API routes for your application
      11
            routes are loaded by the RouteServiceProvider within a group w
      12
            is assigned the "api" middleware group. Enjoy building your AP
      14
            Route::middleware('auth:api')->get('/user', function (Request $r
      17
                return $request->user();
            });
            Route::get('mahasiswa', 'MahasiswaController@index');
            Route::get('/mahasiswa/{id}', 'MahasiswaController@getId');
```





```
22
     23
                      "id": 5,
     24
                      "nama": "Rheza",
     25
                     "nim": "1999",
     26
                      "email": "yoikireza57@gmail.com",
     27
                      "jurusan": "TI",
     28
                     "created_at": null,
                      "updated_at": null
     29
     30
                  },
     31
                     "id": 6,
     32
                     "nama": "eka",
     33
                     "nim": "1841720115",
     34
                     "email": "eka@gmail.com",
     35
                     "jurusan": "TI",
     36
                      "created_at": "2020-05-05T12:48:45.000000Z",
     37
     38
                      "updated_at": "2020-05-05T12:48:45.000000Z"
     39
     40
              ]
     41
     public function update(Request $request, $id){
15
         $nama = $request->nama;
         $nim = $request->nim;
         $email = $request->email;
         $jurusan = $request->jurusan;
         $mhs = Mahasiswa::find($id);
         $mhs->nama = $nama;
         $mhs->nim = $nim;
         $mhs->email = $email;
         $mhs->jurusan = $jurusan;
         //jika data berhasil tersimpan
         if($mhs->save()){
              $res['message'] = "Data berhasil diubah!";
              $res['value'] = "$mhs";
              return response($res);
          }else{
              $res['message'] = "Gagal!";
              return response($res);
```

