Nama : Muhammad Faris Abqari.F

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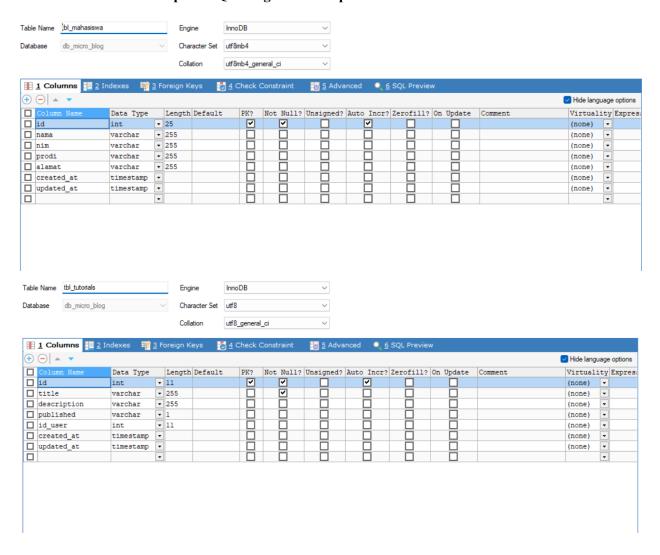
Kelas : TI 4 Pagi B

Tugas Topik 11 JWT API

LAPORAN PROJECT MICROSERVICE

Topik 11

Berikut untuk data base pada SQL dengan isi field pada tabel tutorials dan tabel mahasiswa



Kemudia pada VS Code kita masuk ke bagian models. Untuk menambahkan model pada tutorials kita ketik perintah php artisan make:model tutorials sehingga akan muncul file baru pada folder models. Kemudian ketikkan codingan seperti gambar berikut

Selanjutnya untuk dapat menampilkan data, tambahkan controller pada folder **api** sebuah file **TutorialsController.php** dengan perintah **php artisan make:controller Api/TutorialsController** sehingga akan muncul file baru pada pada folder **api**. Kemudian ketikkan codingan seperti gambar berikut :

```
return new ApiResource(false, 'Data tidak ditemukan',$data);
57
58
              return new ApiResource(true, 'Details Data!' ,$data);
59
60
61
          public function update(Request $request, Tutorials $tutorials)
62
63
              //define validation rules
64
              $validator = Validator::make($request->all(), [
65
                                  => 'required',
                                  => 'required',
                   'description'
66
67
              ]);
68
69
70
              if ($validator->fails()) {
71
                  return response()->json($validator->errors(), 422);
72
              if ($request->hasFile('image')) {
73
74
                  //upload image
                  $image = $request->file('image');
75
                  $image->storeAs('public/tutorials', $image->hashName());
76
                  //delete old image
77
                  Storage::delete('public/tutorials'.$image->hashName());
78
79
                  // update dengan image baru
80
                   $tutorials->update([
 81
 82
                       'image'
                                  => $image->hashName(),
 83
                                  => $request->title,
                       'published' => $request->published,
 84
 85
                       'description' => $request->description
 86
               }else {
 87
                   //update tanpa image
 88
 89
                   $tutorials->update([
 90
                                => $request->title,
                       'published' => $request->published,
 91
                       'description' => $request->description
 92
 93
                   1);
 94
 95
              return new ApiResource(true, 'Perubahan Data Tutorials Sudah Berasil!', $tutorials);
 96
 97
          public function destroy(Tutorials $tutorials)
 98
 99
100
               //delete image
              Storage::delete('public/tutorials/'.$tutorials->image);
101
               //Delete data dalam tabel
102
               $tutorials->delete();
103
104
              return new ApiResource(true, 'Data telah berhasil di HAPUS !', $tutorials);
105
```

Selanjutnya kita tambahkan routes untuk Tutorials pada folder **routes** didalam file **api.php** dengan codingan seperti pada gambar berikut.

```
use Illuminate\Support\Facades\Route;
       use App\Http\Controllers\API\AuthController;
       use Illuminate\Http\Request;
      Route::prefix('v1')->group(function () {

Route::prefix('auth')->group(function () {

//API route for register new user
 7
8
9
               | Route::post('/register', [App\Http\Controllers\API\AuthController::class, 'register']);
//API route for login user
10
              Route::post('/login', [App\Http\Controllers\API\AuthController::class, 'login']);
            });
             //Protecting Routes
            Route::group(['middleware' => ['auth:sanctum']], function () {
16
                 Route::prefix('user')->group(function () {
    Route::get('/profile', function(Request $request) {
18
                      | return auth()->user();
});
19
20
21
                      Route::post('/logout', [App\Http\Controllers\API\AuthController::class, 'logout']);
22
23
24
                 Route::apiResource('/tutorials', App\Http\Controllers\Api\TutorialsController::class);
Route::apiResource('/mahasiswa', App\Http\Controllers\Api\MahasiswaController::class);
25
26
```

Selanjutnya lakukan juga untuk hal yang sama pada **mahasiswa**. Tambahkan pada folder models sebuah **file Mahasiswa.php** dengan perintah php artisan **make:model Mahasiswa –m** sehingga akan muncul file baru pada folder models. Kemudian ketikkan codingan seperti gambar berikut :

```
namespace App\Models;
     use Illuminate\Database\Eloquent\Factories\HasFactory;
     use Illuminate\Database\Eloquent\Model;
     class Mahasiswa extends Model
9
10
         use HasFactory;
         public $table ="tbl_mahasiswa";
11
12
         protected $fillable = [
             'nama',
13
14
             'nim',
             'prodi',
             'alamat
16
         ];
17
18
19
```

Selanjutnya untuk dapat menampilkan data, tambahkan controller pada folder api sebuah file MahasiswaController.php dengan perintah php artisan make:controller Api/MahasiswaController sehingga sehingga akan muncul file baru pada folder api. Kemudian ketikkan codingan seperti gambar berikut :

```
2
     namespace App\Http\Controllers\Api;
     use App\Models\Mahasiswa;
     use App\Http\Controllers\Controller;
     use Illuminate\Http\Request;
     use App\Http\Resources\ApiResource;
     use Auth;
8
     use Validator;
9
     class MahasiswaController extends Controller
10
11
12
         public function index()
13
14
             //get Mahasiswa
             $mahasiswa = Mahasiswa::latest()->paginate(5);
15
16
             return new ApiResource(true, 'List Data Mahasiswa', $mahasiswa);
17
18
19
         public function store(Request $request )
20
21
             //definisi validation rules
22
             $validator = Validator::make($request->all(), [
23
24
                           => 'required|string|max:255',
                           => 'required|string|max:255',
25
                  'nim'
                  'prodi' => 'required|string|max:255',
26
                  'alamat' => 'required|string|max:255'
27
             1);
29
```

```
($validator->fails()) {
31
                 return response()->json($validator->errors(), 422);
32
33
             //Simpan Data
             $store = Mahasiswa::create([
34
                           => $request->nama,
35
                  'nama'
                           => $request->nim,
36
                  prodi' => $request->prodi,
37
                  'alamat' => $request->alamat,
38
                 'id mahasiswa'
                                => Auth::user()->id
39
40
             1);
41
42
             return new ApiResource(true, 'Data Mahasiwa Berhasil Ditambahkan!', $store);
43
44
45
         //menampilkan Data berdasarkan ID
         public function show($id)
46
47
48
             $data = Mahasiswa::find($id);
             if (is_null($data)) {
49
50
                 return new ApiResource(false, 'Data Mahasiswa tidak ditemukan',$data);
51
52
53
             return new ApiResource(true, 'Details Data Mahasiswa!',$data);
54
55
         public function update(Request $request, Mahasiswa $mahasiswa)
```

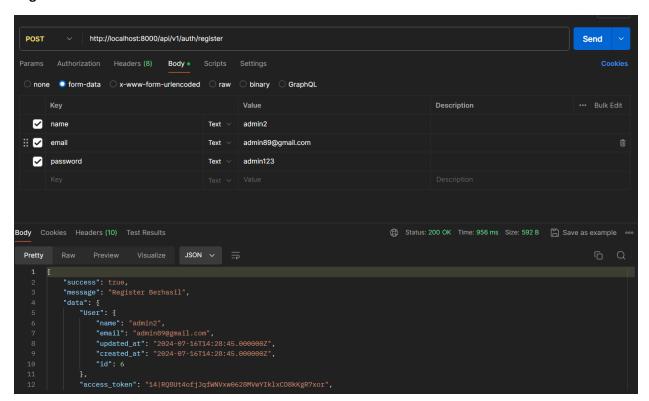
```
58
              //define validation rules
59
              $validator = Validator::make($request->all(), [
60
                           => 'required|string|max:255',
                           => 'required|string|max:255',
                  'nim'
61
                  'prodi' => 'required|string|max:255',
62
                  'alamat' => 'required|string|max:255'
63
              ]);
64
65
66
              if ($validator->fails()) {
67
68
                  return response()->json($validator->errors(), 422);
69
 70
 71
                  //update tanpa image
                  $mahasiswa->update([
                     'nama'
                               => $request->nama,
74
                               => $request->nim,
                      'prodi' => $request->prodi,
                      'alamat' => $request->alamat,
76
77
                  ]);
78
              return new ApiResource(true, 'Perubahan Data Mahasiswa Sudah Berasil!', []);
79
80
          //Hapus Data
82
          public function destroy(Mahasiswa $mahasiswa)
83
84
              //Delete data dalam tabel
              $mahasiswa->delete();
85
86
              return new ApiResource(true, 'Data telah berhasil di HAPUS !', []);
87
     }
88
```

Selanjutnya kita tambahkan routes untuk mahasiswa pada folder **routes** didalam file api.php dengan codingan seperti pada gambar berikut :

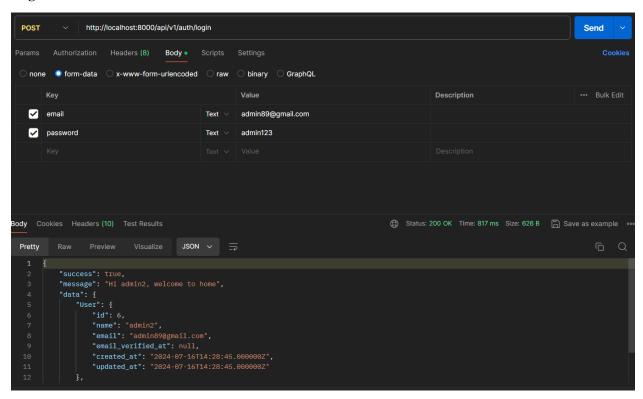
```
use Illuminate\Support\Facades\Route;
     use App\Http\Controllers\API\AuthController;
     use Illuminate\Http\Request;
     Route::prefix('v1')->group(function () {
         Route::prefix('auth')->group(function () {
9
            Route::post('/register', [App\Http\Controllers\API\AuthController::class, 'register']);
10
11
           //API route for login user
12
          Route::post('/login', [App\Http\Controllers\API\AuthController::class, 'login']);
14
         //Protecting Routes
16
         Route::group(['middleware' => ['auth:sanctum']], function () {
            Route::prefix('user')->group(function () {
    Route::get('/profile', function(Request $request) {
18
19
                return auth()->user();
20
                Route::post('/logout', [App\Http\Controllers\API\AuthController::class, 'logout']);
22
23
            24
             Route::apiResource('/mahasiswa', App\Http\Controllers\Api\MahasiswaController::class);
25
26
     });
27
```

Kemudian dilakukan uji coba untuk CRUD pada tabel Tutorials di Postman sebagai berikut:

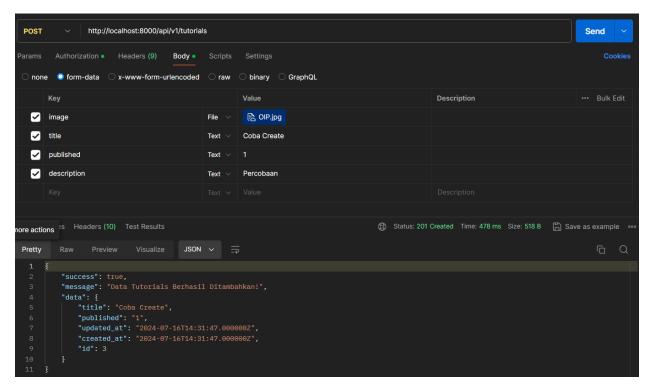
Register



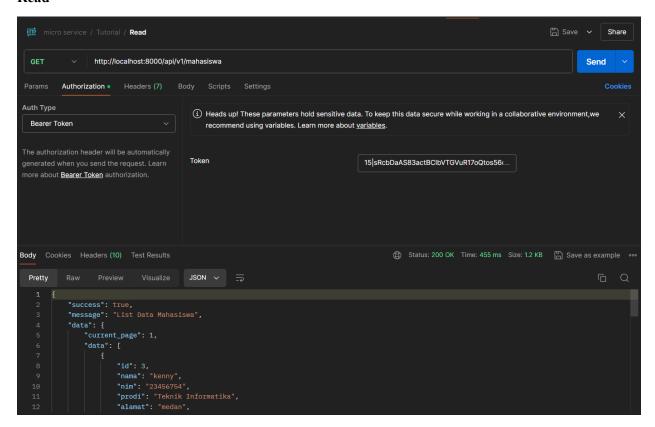
Login



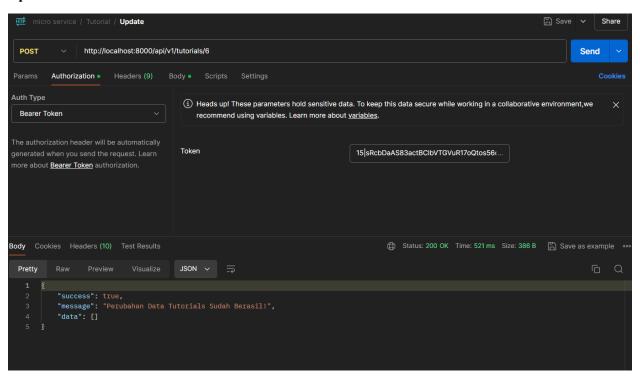
Create



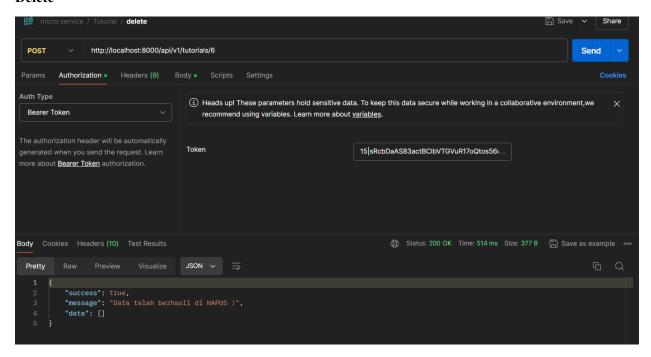
Read



Update

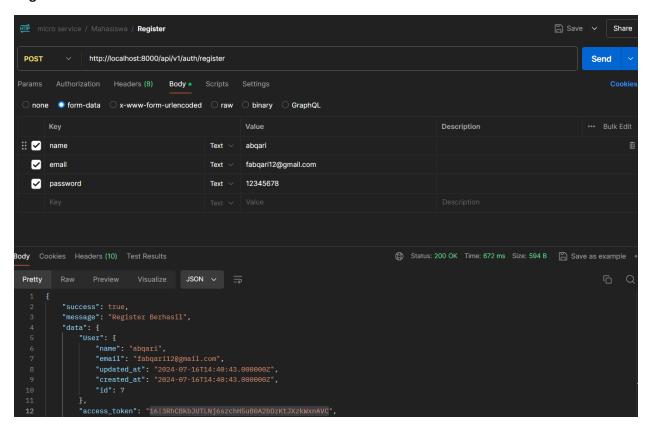


Delete

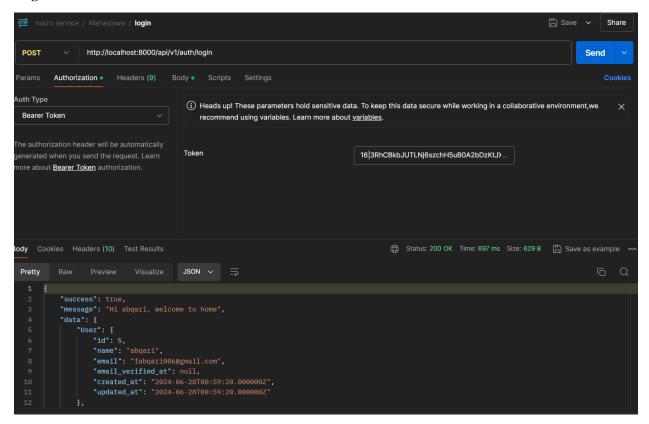


Selanjutnya dilakukan uji coba untuk CRUD pada tabel Mahasiswa di Postman sebagai berikut :

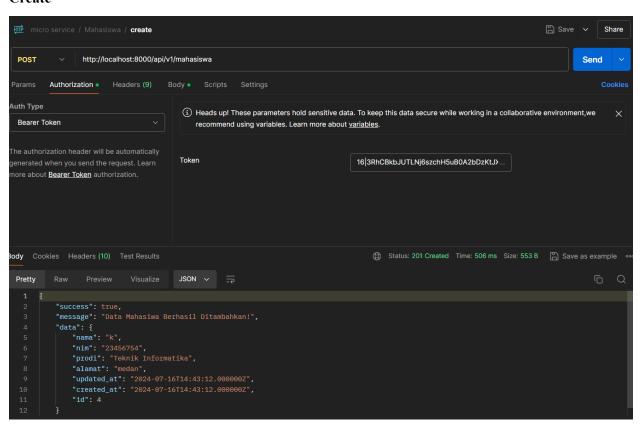
Register



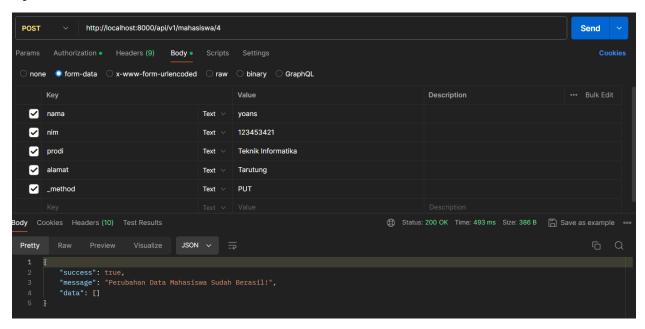
Login



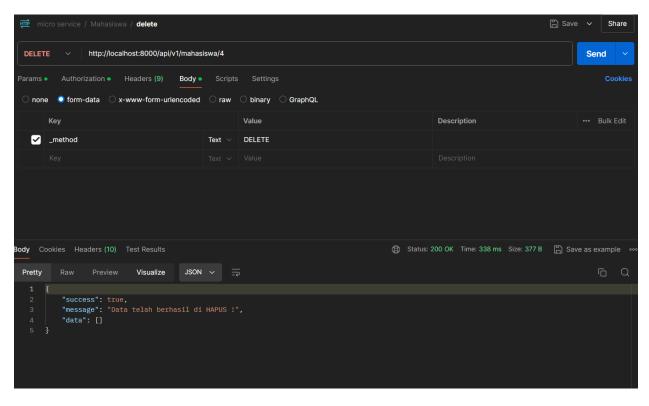
Create



Update



Delete



Logout

