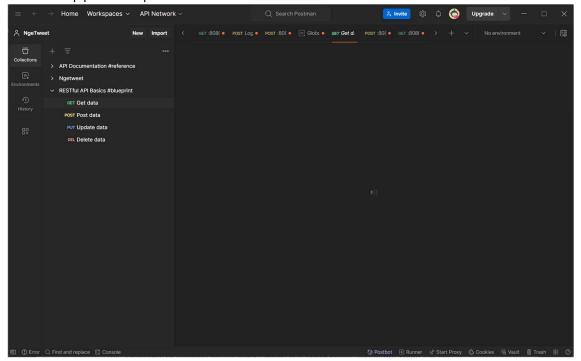
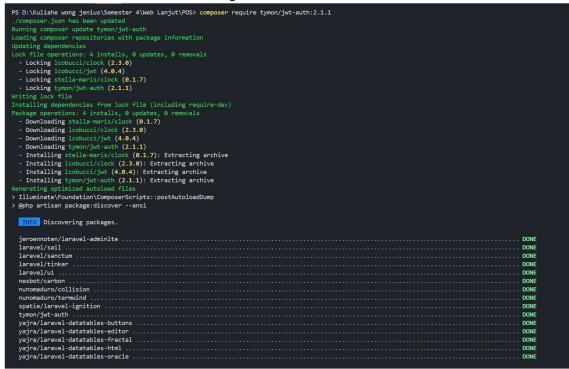
Kelas: 2H Absen: 19

1. Sebelum memulai membuat REST API, terlebih dahulu download aplikasi Postman di https://www.postman.com/downloads. Aplikasi ini akan digunakan untuk mengerjakan semua tahap praktikum pada Jobsheet ini.



2. Lakukan instalasi JWT dengan mengetikkan perintah berikut: composer require tymon/jwt-auth:2.1.1 Pastikan Anda terkoneksi dengan internet.



3. Setelah berhasil menginstall JWT, lanjutkan dengan publish konfigurasi file dengan perintah berikut: php artisan vendor:publish -- provider="Tymon\JWTAuth\Providers\LaravelServiceProvider"

Kelas : 2H Absen : 19

```
No security vulnerability advisories found. php artisan vendor:publish --provider="Tymon\JWTAuth\Providers\LaravelServiceProvider"

11KO Publishing assets.

Copying file [D:\Kuliahe wong jenius\Semester 4\Web Lanjut\POS\vendor\tymon\jwt-auth\config\config.php] to [D:\Kuliahe wong jenius\Semester 4\Web Lanjut\POS\config\jwt.php] DONE

PS D:\Kuliahe wong jenius\Semester 4\Web Lanjut\POS>
```

 Setelah itu jalankan peintah berikut untuk membuat secret key JWT. php artisan jwt:secret Jika berhasil, maka pada file .env akan ditambahkan sebuah baris berisi nilai key JWT SECRET.

```
PS D:\Kuliahe wong jenius\Semester 4\Web Lanjut\POS> php artisan jwt:secret
jwt-auth secret [V24hVCfByoDz2EmgMJvr21tYQgo9JDdCvRy1cp2TQOMwdWqs02zHtEHsxg79FJUw] set successfully.
PS D:\Kuliahe wong jenius\Semester 4\Web Lanjut\POS>
```

5. Selanjutnya lakukan konfigurasi guard API. Buka config/auth.php. Ubah bagian 'guards' menjadi seperti berikut.

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

6. Kita akan menambahkan kode di model UserModel, ubah kode seperti berikut:

```
0 references | 0 overrides
public function getJWTIdentifier()
{
    return $this->getKey();
}

0 references | 0 overrides
public function getJWTCustomClaims()
{
    return [];
}
```

7. Berikutnya kita akan membuat controller untuk register dengan menjalankan peintah berikut. php artisan make:controller Api/RegisterController Jika berhasil maka akan ada tambahan controller pada folder Api dengan nama RegisterController

Kelas: 2H Absen: 19

```
PS D:\Kuliahe wong jenius\Semester 4\Web Lanjut\POS> php artisan make:controller Api/RegisterController

INFO Controller [D:\Kuliahe wong jenius\Semester 4\Web Lanjut\POS\app\Http\Controllers\Api\RegisterController.php] created successfully.

PS D:\Kuliahe wong jenius\Semester 4\Web Lanjut\POS>
```

8. Buka file tersebut, dan ubah kode menjadi seperti berikut.

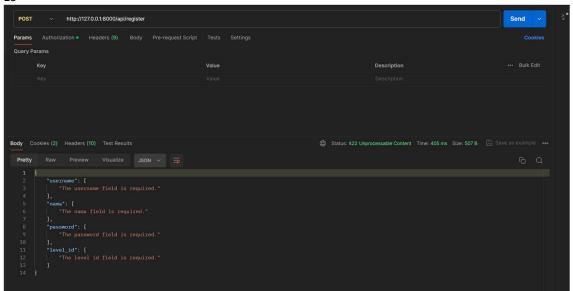
```
0 references | 0 overrides
         public function _invoke(Request $request)
              $validator = Validator::make($request->all(), [
                  'username' => 'required',
                  'nama' => 'required',
                  'password' => 'required|min:5|confirmed',
                  'level_id' => 'required'
              ]);
              if ($validator->fails()) {
                  return response()->json($validator->errors(), 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,
                  ], 201);
              return response()->json([
                  'success' => false,
              ], 409);
45
```

9. . Selanjutnya buka routes/api.php, ubah semua kode menjadi seperti berikut.

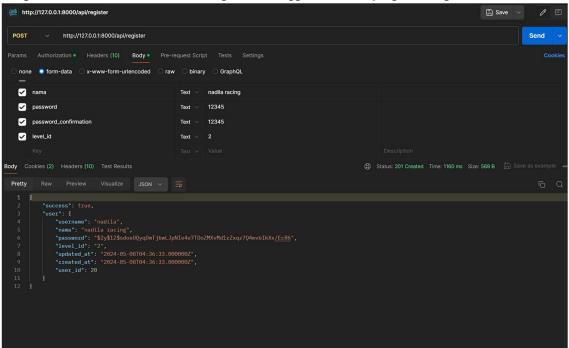
```
17
18 Route::post('/register', RegisterController::class)->name('register');
19
```

10. Jika sudah, kita akan melakukan uji coba REST API melalui aplikasi Postman. Buka aplikasi Postman, isi URL localhost/PWL POS/public/api/register serta method POST. Klik Send.

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11. Sekarang kita coba masukkan data. Klik tab Body dan pilih form-data. Isikan key sesuai dengan kolom data, serta isikan data registrasi menggunakan nilai yang Anda inginkan.



Praktikum 2

 Kita buat file controller dengan nama LoginController. php artisan make:controller Api/LoginController Jika berhasil maka akan ada tambahan controller pada folder Api dengan nama LoginController

```
PS D:\Kuliahe wong jenius\Semester 4\Web Lanjut\POS> php artisan make:controller Api/LoginController

INFO Controller [D:\Kuliahe wong jenius\Semester 4\Web Lanjut\POS\app\Http\Controllers\Api\LoginController.php] created successfully.

PS D:\Kuliahe wong jenius\Semester 4\Web Lanjut\POS>
```

Kelas : 2H Absen : 19

2. Buka file tersebut, dan ubah kode menjadi seperti berikut.

```
app > Http > Controllers > Api > 🚥 LoginController.php > PHP > ધ App\Http\Controllers\Api\LoginCon
       class LoginController extends Controller
           0 references | 0 overrides
           public function __invoke(Request $request)
               $validator = Validator::make($request->all(), [
                    'username' => 'required',
                    'password' => 'required'
               ]);
               if ($validator->fails()) {
                   return response()->json($validator->errors(), 422);
               $credentials = $request->only('username', 'password');
               if (!$token = auth()->guard('api')->attempt($credentials)) {
                   return response()->json([
                        'success' => false,
                        'message' => 'Username atau Password Salah'
                   ]);
               return response()->json([
                   'success' => 'true',
                   'user' => auth()->user(),
                    'token' => $token
               ], 200);
 37
```

3. Berikutnya tambahkan route baru pada file api.php yaitu /login dan /user.

```
Route::post('/register', RegisterController::class)->name('register');

Route::post('/login', LoginController::class)->name('login');

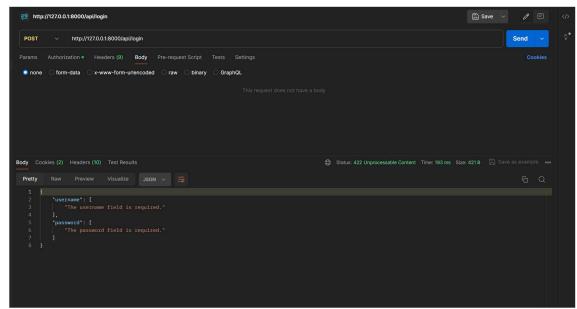
Route::middleware('auth:api')->get('/user', function (Request $request) {

return $request->user();

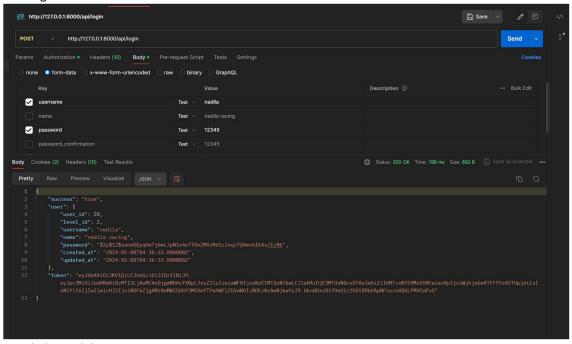
});
```

4. Jika sudah, kita akan melakukan uji coba REST API melalui aplikasi Postman. Buka aplikasi Postman, isi URL localhost/PWL_POS/public/api/login serta method POST. Klik Send.

Kelas: 2H Absen: 19

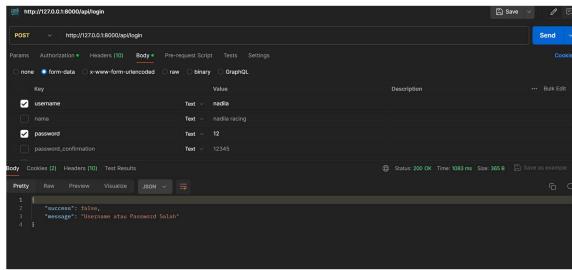


5. Selanjutnya, isikan username dan password sesuai dengan data user yang ada pada database. Klik tab Body dan pilih form-data. Isikan key sesuai dengan kolom data, serta isikan data user. Klik tombol Send, jika berhasil maka akan keluar tampilan seperti berikut. Copy nilai token yang diperoleh pada saat login karena akan diperlukan pada saat logout.

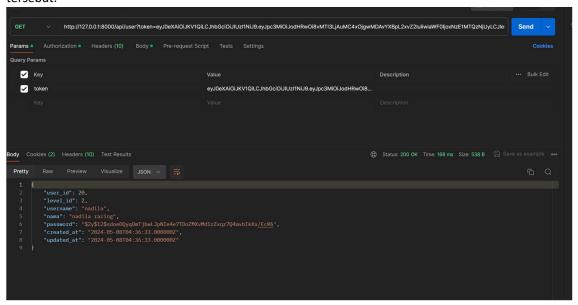


6. Untuk data salah

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 Coba kembali melakukan login dengan data yang benar. Sekarang mari kita coba menampilkan data user yang sedang login menggunakan URL localhost/PWL_POS/public/api/user dan method GET. Jelaskan hasil dari percobaan tersebut.



Praktikum 3

1. Tambahkan kode berikut pada file .env JWT SHOW BLACKLIST EXCEPTION=true

```
60
61 JWT_SECRET=V24hVCfByoDz2EmgMJvr21tYQgo9JDdCvRy1cp2TQ0MwdWqs02zHtEHsxg79FJUw
62 JWT_SHOW_BLACKLIST_EXCEPTION=true
```

Buat Controller baru dengan nama LogoutController. php artisan make:controller Api/LogoutController

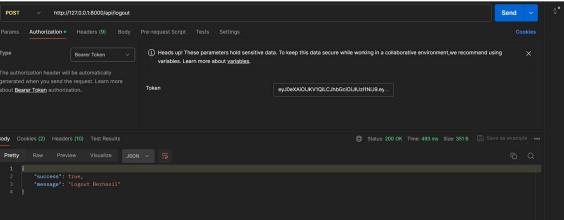
Kelas: 2H Absen: 19

3. Buka file tersebut dan ubah kode menjadi seperti berikut

4. Lalu kita tambahkan routes pada api.php

```
25
26 | Route::post('logout', LogoutController::class)->name('logout');
```

- 5. Jika sudah, kita akan melakukan uji coba REST API melalui aplikasi Postman. Buka aplikasi Postman, isi URL localhost/PWL_POS/public/api/logout serta method POST.
- 6. Isi token pada tab Authorization, pilih Type yaitu Bearer Token. Isikan token yang didapat saat login. Jika sudah klik Send.



Praktikum 4

1. Pertama, buat controller untuk mengolah API pada data level. php artisan make:controller Api/LevelController

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```
PS D:\Kuliahe wong jenius\Semester 4\Web Lanjut\POS> php artisan make:controller Api/LevelController

INFO Controller [D:\Kuliahe wong jenius\Semester 4\Web Lanjut\POS\app\Http\Controllers\Api\LevelController.php] created successfully.

PS D:\Kuliahe wong jenius\Semester 4\Web Lanjut\POS>
```

2. Setelah berhasil, buka file tersebut dan tuliskan kode seperti berikut yang berisi fungsi CRUDnya.

```
app > http > Controllers > Api > © LevelController extends Controller

| class LevelController extends Controller
| class LevelController extends Controller
| class LevelController extends Controller
| class LevelController extends Controller
| class LevelController extends Controller
| class LevelController extends Controller
| class LevelController extends Controller
| class LevelController extends Controller
| class LevelController extends Controller
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```

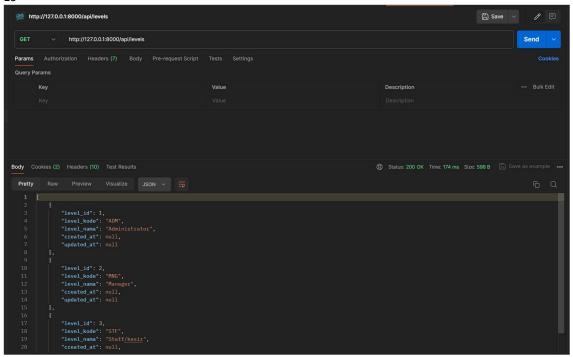
3. Kemudian kita lengkapi routes pada api.php

```
Route::get('levels', [LevelController::class, 'index']);
Route::post('levels', [LevelController::class, 'store']);
Route::get('levels/{$level', [LevelController::class, 'show']);
Route::put('levels/{$level}', [LevelController::class, 'update']);
Route::delete('levels/{$level}', [LevelController::class, 'destroy']);
175
```

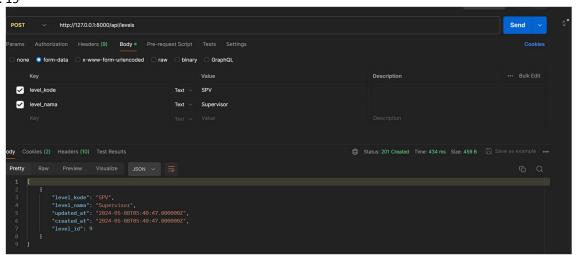
4. Jika sudah. Lakukan uji coba API mulai dari fungsi untuk menampilkan data. Gunakan URL: localhost/PWL_POS-main/public/api/levels dan method GET.

5. Show

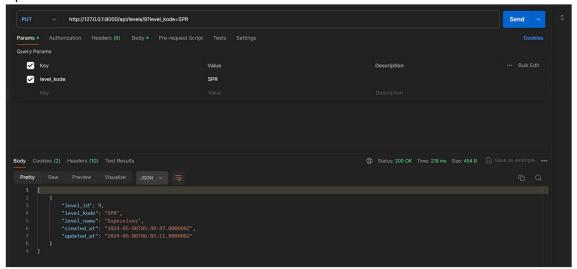
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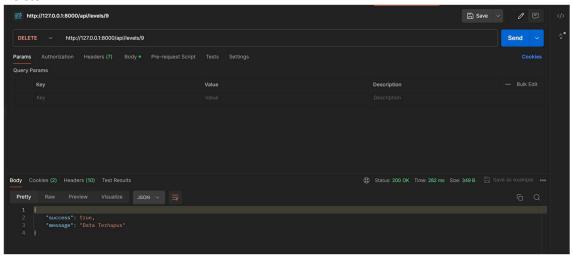
Kelas: 2H Absen: 19



7. Update



8. Delete



Kelas: 2H Absen: 19

Tugas Kategori

```
5 references | 0 implementations
     class KategoriController extends Controller
          1 reference | 0 overrides
          public function index()
              return KategoriModel::all();
          1 reference | 0 overrides
          public function store(Request $request)
              $level = KategoriModel::create($request->all());
              return response()->json([
                  $level
              ], 201);
          public function show(KategoriModel $level)
              return KategoriModel::find($level);
          1 reference | 0 overrides
          public function update(Request $request, KategoriModel $level)
34
              $level->update($request->all());
              return KategoriModel::find($level);
          1 reference | 0 overrides
          public function destroy(KategoriModel $level)
              $level->delete();
              return response()->json([
                   'success' => true,
                   'message' => 'Data Terhapus'
              1);
```

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```
Route::get('kategori', [\App\Http\Controllers\Api\KategoriController::class, 'index']);
Route::post('kategori', [\App\Http\Controllers\Api\KategoriController::class, 'store']);
Route::get('kategori/{kategori}', [\App\Http\Controllers\Api\KategoriController::class, 'show']);
Route::put('kategori/{kategori}', [\App\Http\Controllers\Api\KategoriController::class, 'update']);
Route::delete('kategori/{kategori}', [\App\Http\Controllers\Api\KategoriController::class, 'destroy']);
```

User

Kelas: 2H Absen: 19

```
pp > Http > Controllers > Api > ᢁ UserController.php > PHP > 😭 App\Http\Controllers\Api\UserCo
      class UserController extends Controller
          1 reference | 0 overrides
          public function index()
13
              return UserModel::all();
          1 reference | 0 overrides
          public function store(Request $request)
              $user = UserModel::create([
                   'level id' => $request->level id,
                   'username' => $request->username,
                   'nama' => $request->nama,
                   'password' => bcrypt($request->password),
              1);
              return response()->json([
                  $user
              ], 201);
          1 reference | 0 overrides
          public function show(UserModel $user)
              return UserModel::findOrFail($user);
          1 reference | 0 overrides
          public function update(Request $request, UserModel $user)
              $user->update(
                       'level_id' => $request->level_id,
                       'username' => $request->username,
                       'nama' => $request->nama,
                       'password' => bcrypt($request->password),
              );
              return UserModel::find($user);
```

Kelas: 2H Absen: 19

Barang

Kelas : 2H Absen : 19

```
5 references | 0 implementations
     class BarangController extends Controller
          public function index()
              return BarangModel::all();
          1 reference | 0 overrides
          public function store(Request $request)
              $level = BarangModel::create($request->all());
              return response()->json([
                  $level
              ], 201);
          1 reference | 0 overrides
          public function show(BarangModel $level)
26
              return BarangModel::find($level);
          1 reference | 0 overrides
          public function update(Request $request, BarangModel $level)
              $level->update($request->all());
              return BarangModel::find($level);
          1 reference | 0 overrides
          public function destroy(BarangModel $level)
              $level->delete();
              return response()->json([
                   'success' => true,
                  'message' => 'Data Terhapus'
              ]);
```

Kelas : 2H Absen : 19