PEMROGRAMAN WEB LANJUT

"RESTFUL API 2"



Kelas: TI-2H

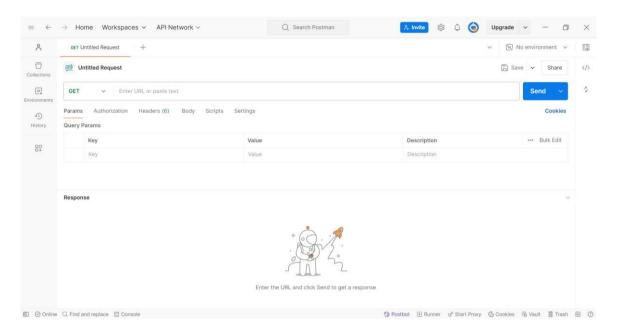
Disusun Oleh:

Fanesabhirawaning Sulistyo

PROGRAM STUDI D-IV TEKNIK INFORMATIKA JURUSAN TEKNOLOGI INFORMASI POLITEKNIK NEGERI MALANG

Jl. Soekarno Hatta No.9, Jatimulyo, Kec. Lowokwaru, Kota Malang, Jawa Timur 65141

1. Sebelum memulai pastikan REST API, terlebih dahulu pastikan sudah ter instal aplikasi Postman.



2. Kita akan memodifikasi Table m_user dengan menambahkan column : image, buka terminal lalu ketikkan

php artisan make:migration add_image_to_m_user_table

```
PS C:\laragon\www\PWL_POS> php artisan make:migration add_image_to_m_user_table

INFO Migration [C:\laragon\www\PWL_POS\database\migrations/2024_05_14_064805_add_image_to_m_user_table.php] created successfully.
```

3. Buka file migrasi tersebut lalu modifikasi seperti ini lalu simpan:

```
database > migrations > 🦬 2024_05_14_064805_add_image_to_m_user_table.php > ...
      <?php
      use Illuminate\Database\Migrations\Migration;
      use Illuminate\Database\Schema\Blueprint;
      use Illuminate\Support\Facades\Schema;
      return new class extends Migration
           * Run the migrations.
 11
 12
           public function up(): void
 13
               Schema::table('m_user', function (Blueprint $table) {
                   $table->string('image');
               });
 17
            * Reverse the migrations.
 21
           public function down(): void
               Schema::table('m_user', function (Blueprint $table) {
                   $table->dropColumn('image');
               });
 28
       };|
```

4. Lakukan jalankan update migrasi dengan cara:

php artisan migrate

5. Lalu lakukan modifikasi models pada App/Models/UserModel.php

```
> Models > 🦬 UserModel.php > .
  namespace App\Models;
  use Illuminate\Database\Eloquent\Factories\HasFactory;
  use Illuminate\Database\Eloquent\/
  use Illuminate\Database\Eloguent\Relations\BelongsTo:
  use Illuminate\Database\Eloquent\Relations\HasOr
  use Illuminate\Foundation\Auth\User as Authenticatable;
 use Tymon\JWTAuth\Contracts\JWTSubject;
  use App\Models\LevelModel; // Add this import statement
 use Illuminate\Database\Eloquent\Casts\Attribute;
      public function getJWTIdentifier()
          return $this->getKey();
      public function getJWTCustomClaims()
      protected $table = 'm_user';
      public $timestamps = true;
      protected $primaryKey = 'user_id';
      protected $fillable = ['user_id','level_id','username','nama','password','image'];
      public function level(): BelongsTo
          return $this->belongsTo(LevelModel::class,'level_id','level_id');
      protected function image(): Attribute
          return Attribute::make(
              get: fn ($image) => url('/storage/posts/' . $image),
```

6. Lakukan modifikasi pada Controllers/Api/RegisterController

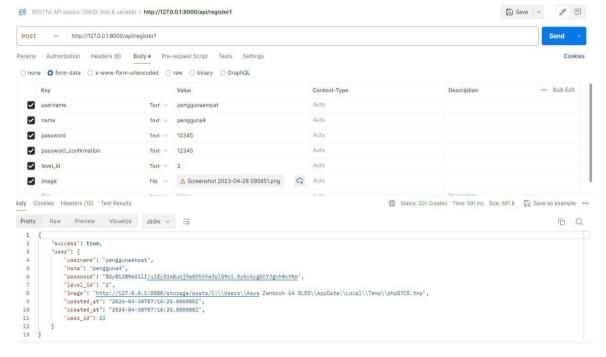
```
class RegisterController extends Controller
    public function __invoke(Request $request)
        $validator = Validator::make($request->all(), [
            'username' => 'required',
'nama' => 'required',
'password' => 'required|min:5|confirmed',
            'level_id' => 'required',
             'image' => 'required|image|mimes:jpeg,png,jpg,gif,svg|max:2048'
        if ($validator->fails()) {
            return response()->json($validator->errors(), 422);
        //create user
        $image = $request->image;
        $user = UserModel::create([]
             'username' => $request->username,
             'nama' => $request->nama,
             'password' => bcrypt($request->password),
             'level_id' => $request->level_id,
             'image' => $image->hashName(),
```

7. Anda dapat menambahkan detail untuk spesifikasi image pada validator

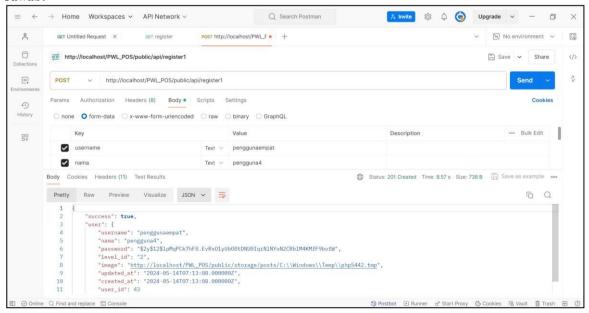
```
'image' => 'required|image|mimes:jpeg,png,jpg,gif,svg|max:2048'
```

- $8. \quad Ubah\ atau\ tambahkan\ register 1\ pada\ routes/api.php$
- 63 Route::post('/register1', App\Http\Controllers\Api\RegisterController::class)->name('register1');
- 8. Simpan dan akses pada aplikasi Postman, atur pada Body isi manual Key dan Valuenya pada Key image tambahkan value File dan upload gambar

http://127.0.0.1:8000/api/register1 dengan method POST dan klik send



Jawab:



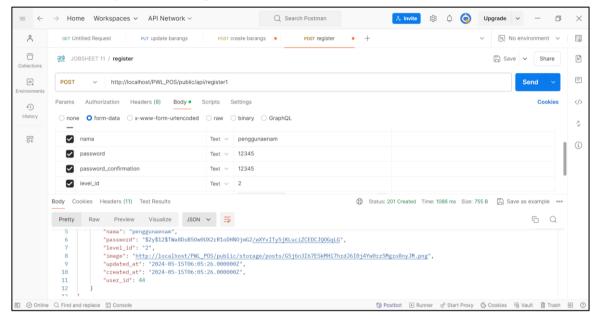
9. Pada Controllers/Api/RegisterController bagian create user ganti dengan

```
'image' => $image->hashName(),
```

10. Uji coba dan screenshot hasilnya apa perbedaan dari yang sebelumnya

Jawab:

Dengan perubahan 'image' => \$request->image menjadi 'image' => \$request->hashName(), Maka nama image akan dienkripsi



TUGAS

Implementasikan API untuk upload file/gambar pada tabel lainnya yaitu tabel m_barang dan gunakan pada transaksi. Uji coba dengan method GET untuk memanggil data yang sudah di inputkan.

Jawab:

 Kita akan memodifikasi Table m_barang dengan menambahkan column : image, buka terminal lalu ketikkan php artisan make:migration add_image_to_m_barang_table

```
PS C:\laragon\www\PWL_POS> php artisan make:migration add_image_to_m_barang_table

INFO Migration [C:\laragon\www\PWL_POS\database\migrations/2024_05_14_072104_add_image_to_m_barang_table.php] created successfully.
```

• Buka file migrasi tersebut lalu modifikasi seperti ini lalu simpan:

Lakukan jalankan update migrasi dengan cara:

php artisan migrate

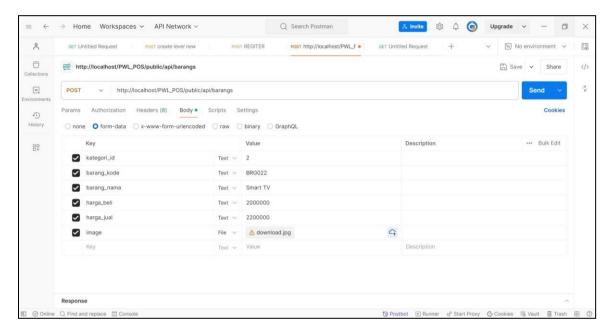
• Lalu lakukan modifikasi models pada App/Models/BarangModel.php

```
app > Models > 🦛 BarangModel.php > 😭 BarangModel > 🕅 image
      namespace App\Models;
     use Illuminate\Database\Eloquent\Casts\Attribute;
      use Illuminate\Database\Eloquent\Factories\HasFactory;
      use Illuminate\Database\Eloquent\Model:
      use Illuminate\Database\Eloquent\Relations\BelongsTo;
      use Illuminate\Database\Eloquent\Relations\HasOne;
      class BarangModel extends Model
          use HasFactory;
          protected $table = 'm_barang';
          protected $primaryKey = 'barang_id';
          protected $fillable = [
               'barang_kode',
               'barang_nama',
               'harga_beli',
               'harga_jual',
              'kategori_id',
               'image',
          protected $casts = [
               'stok' => 'integer',
          public function kategori(): BelongsTo
               return $this->belongsTo(KategoriModel::class, 'kategori_id', 'kategori_id');
          public function stok(): HasOne
               return $this->hasOne(StokModel::class, 'barang_id', 'barang_id');
 39
           public function image(): Attribute
            return Attribute::make(
               get: fn ($image) => url('/storage/posts/' . $image),
```

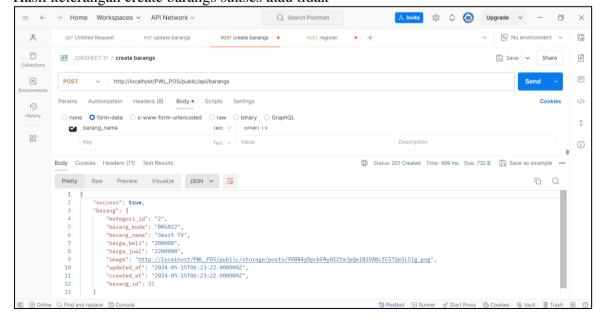
• Lakukan modifikasi pada Controllers/Api/BarangController

```
ttp > Controllers > Api > 💝 BarangController.php > 😭 BarangController > 🗘 update
    use App\Http\Controllers\Controller;
     use Illuminate\Http\Request;
    use App\Models\BarangModel;
8  use Illuminate\Support\Facades\Validator;
          public function index()
              return BarangModel::all();
              $validator = Validator::make($request->all(), [
                 'barang_kode' => 'required',
'barang_nama' => 'required',
'harga_beli' => 'required',
'harga_jual' => 'required',
                   return response()->json($validator->errors(), 422);
              $barang = BarangModel::create($request->all());
              if ($barang) {
                   return response()->json([
                       'success' => true,
'barang' => $barang,
             return response()->json([
             ], 409);
        public function show(BarangModel $barang)
             return BarangModel::find($barang);
        public function update(Request $request, BarangModel $barang)
             $validator = Validator::make($request->all(), [
                 'barang_kode' => 'required',
'barang_nama' => 'required',
                  balang_nama = / required',
'harga_blal' => 'required',
'kategori_id' => 'required',
'image' => 'required|image|mimes:jpeg,png,jpg,gif,svg|max:2048'
            //if validations fails
if ($validator->fails()) {
                  return response()->json($validator->errors(), 422);
             $barang = BarangModel::with('kategori')->find($barang);
             if ($barang) {
                 return response()->json([
                   'success' => true,
'barang' => $barang,
```

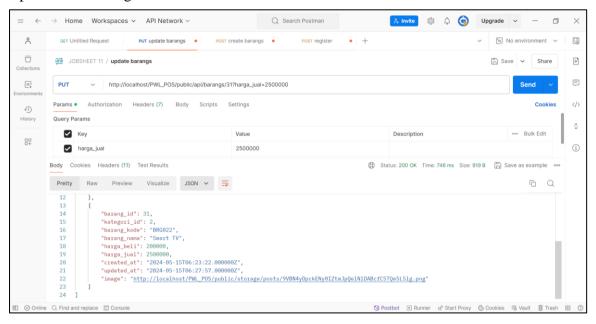
Create Barang



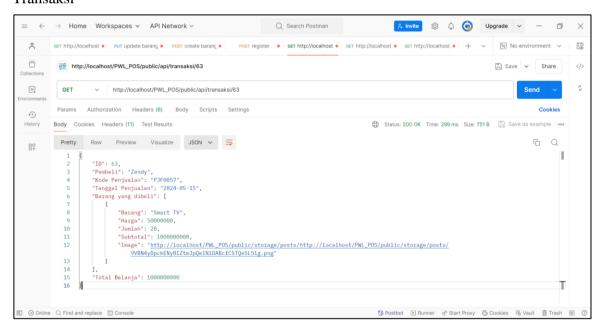
Hasil keterangan create barangs sukses atau tidak



Update data barang



Transaksi



*** Sekian, dan Terima Kasih***