

Database relationship and seeding

1. Migrate:

1) Create_Cat_table:

```
<?php use
Illuminate\Database\Migrations\Migration; use
Illuminate\Database\Schema\Blueprint; use
Illuminate\Support\Facades\Schema;

return new class extends
Migration
{
    /**
     * Run the migrations.
     */
    public function
up(): void
    {
        Schema::create('cats', function (Blueprint $table) {
            $table->id();
            $table->string('name');
            $table->string('country');
            $table->double('theLengthOfLife');
            $table->string('color');
            $table->foreignId('breed_id')->constrained('breeds')->onDelete(
te('cascade'));
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::dropIfExists('cats');
    }
};
```

2) create_dog_table:

```
<?php
```

```

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint; use
Illuminate\Support\Facades\Schema;
return new class extends
Migration
{
    /**
     * Run the migrations.
     */    public function
up(): void
    {
        Schema::create('dogs', function (Blueprint $table) {
            $table->id();
            $table->string('name');
            $table->string('country');
            $table->double('theLengthOfLife');
            $table->string('color');
            $table->foreignId('breed_id')->constrained('breeds')->onDelete
te('cascade');
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     */    public function
down(): void
    {
        Schema::dropIfExists('dogs');
    }
};

```

3) create_breeds_table:

```

<?php use
Illuminate\Database\Migrations\Migration; use
Illuminate\Database\Schema\Blueprint; use
Illuminate\Support\Facades\Schema;

return new class extends Migration {
    /**
     * Run the migrations.
     */    public function
up(): void
    {
        Schema::create('breeds', function (Blueprint $table) {

```

```

        $table->id();
        $table->string('name');
        $table->string('type');
        $table->string('country');
        $table->double('average_lifespan');
        $table->string('color')->nullable();
        $table->text('characteristics')->nullable();
        $table->timestamps();
    });
}

/**
 * Reverse the migrations.
 */
public function
down(): void
{
    Schema::dropIfExists('breeds');
}
};

```

4) create_PetSupplies_table:

```

<?php use
Illuminate\Database\Migrations\Migration; use
Illuminate\Database\Schema\Blueprint; use
Illuminate\Support\Facades\Schema;

return new class extends
Migration
{
    /**
     * Run the migrations.
     */
    public function
up(): void
    {
        Schema::create('pet_supplies', function (Blueprint $table) {
            $table->id();
            $table->string('name');
            $table->string('type');
            $table->double('price');
            $table->text('description')->nullable();
            $table->timestamps();
        });
    }

    /**

```

```

        * Reverse the migrations.
    */
    public function
down(): void
{
    Schema::dropIfExists('pet_supplies');
}
};

```

5) create_cat_pet_supplies_table:

```

<?php use
Illuminate\Database\Migrations\Migration; use
Illuminate\Database\Schema\Blueprint; use
Illuminate\Support\Facades\Schema;
return new class extends
Migration
{
    /**
     * Run the migrations.
     */
    public function
up(): void
    {
        Schema::create('cat_pet_supplies', function (Blueprint $table) {
            $table->id();
            $table->foreignId('cat_id')->constrained()->onDelete('cascad
e');
            $table->foreignId('pet_supply_id')->constrained()->onDelete(
'cascade');
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     */
    public function
down(): void
    {
        Schema::dropIfExists('cat_pet_supplies');
    }
};

```

6) create_dog_pet_supplies_table:

```

<?php use
Illuminate\Database\Migrations\Migration; use

```

```

Illuminate\Database\Schema\Blueprint; use
Illuminate\Support\Facades\Schema;
return new class extends
Migration
{
    /**
     * Run the migrations.
     */
    public function
up(): void
    {
        Schema::create('dog_pet_supplies', function (Blueprint $table) {
            $table->id();
            $table->foreignId('dog_id')->constrained('dogs')->onDelete('
cascade');
            $table->foreignId('pet_supplies_id')->constrained('pet_suppl
ies')->onDelete('cascade');
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     */
    public function
down(): void
    {
        Schema::dropIfExists('dog_pet_supplies');
    }
};

```

7) create_comments_table:

```

<?php use
Illuminate\Database\Migrations\Migration; use
Illuminate\Database\Schema\Blueprint; use
Illuminate\Support\Facades\Schema;
use Illuminate\Support\Facades\DB; return
new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function
up(): void
    {
        DB::statement('SET FOREIGN_KEY_CHECKS=0;');
    }
};

```

```

        Schema::dropIfExists('comments');

        Schema::create('comments', function (Blueprint $table) {
            $table->id();
            $table->text('content');
            $table->foreignId('user_id')
                ->constrained('users')
                ->onDelete('cascade');
            $table->foreignId('post_id')
                ->constrained('posts')
                ->onDelete('cascade');
            $table->timestamps();
        });
        DB::statement('SET FOREIGN_KEY_CHECKS=1;');
    }

    /**
     * Reverse the migrations.
     */
    public function
down(): void
    {
        DB::statement('SET FOREIGN_KEY_CHECKS=0;');

        Schema::dropIfExists('comments');

        DB::statement('SET FOREIGN_KEY_CHECKS=1;');

    }
};

```

8) create_post_table:

```

<?php use
Illuminate\Database\Migrations\Migration; use
Illuminate\Database\Schema\Blueprint; use
Illuminate\Support\Facades\Schema;

return new class extends
Migration
{
    /**
     * Run the migrations.
     */
    public function
up(): void

```

```

{
    Schema::create('posts', function (Blueprint $table) {
        $table->id();
        $table->string('title');
        $table->text('content');
        $table->foreignId('user_id')
            ->constrained('users')
            ->onDelete('cascade');
        $table->foreignId('cat_id')
            ->nullable()
            ->constrained('cats')
            ->onDelete('set null');
        $table->foreignId('dog_id')
            ->nullable()
            ->constrained('dogs')
            ->onDelete('set null');
        $table->timestamps();
    });
}

/**
 * Reverse the migrations.
 */
public function
down(): void
{
    Schema::dropIfExists('posts');
}
};

```

9) create_user_table:

```

<?php use
Illuminate\Database\Migrations\Migration; use
Illuminate\Database\Schema\Blueprint; use
Illuminate\Support\Facades\Schema;
return new class extends
Migration
{
    /**
     * Run the migrations.
     */
    public function
up(): void
    {
        Schema::create('users', function (Blueprint $table) {
            $table->id();

```

```

        $table->string('name');
        $table->string('email')->unique();
        $table->timestamp('email_verified_at')->nullable();
        $table->string('password');
        $table->rememberToken();
        $table->timestamps();
    });
}

/**
 * Reverse the migrations.
 */
public function
down(): void
{
    Schema::dropIfExists('users');
}
};

```

2.

models:

1) Cat:

```

<?php namespace
App\Models;
use
Illuminate\Database\Eloquent\Factories\HasFactory; use
Illuminate\Database\Eloquent\Model;
class Cat extends
Model
{
    protected $table = 'cats';        use HasFactory;
    protected $fillable = ['name', 'country', 'theLengthOfLife',
'color', 'created_at', 'updated_at'];

    public function petSupplies()
    {
        return $this->belongsToMany(PetSupplies::class,
'cat_pet_supplies');
    } public function
breeds()
    {
        return $this->belongsTo(Breeds::class, 'breed_id');
    }
}

```


2) Dog:

```
<?php namespace
App\Models;
use
Illuminate\Database\Eloquent\Factories\HasFactory; use
Illuminate\Database\Eloquent\Model;
class Dog extends
Model
{
    use
    HasFactory;
    public function
    petSupplies()
    {
        return $this->belongsToMany(PetSupplies::class, 'dog_pet_supplies');
    } public function
    breeds()
    {
        return $this->belongsTo(Breeds::class, 'breed_id');
    }
}
```

3)Breeds:

```
<?php namespace
App\Models;
use
Illuminate\Database\Eloquent\Factories\HasFactory; use
Illuminate\Database\Eloquent\Model;
class Breeds extends
Model
{
    use HasFactory;
    protected $table = 'breeds';
    public function
    cats()
    {
        return $this->hasMany(Cat::class, 'breed_id');
    } public function
    dogs()
    {
        return $this->hasMany(Dog::class, 'breed_id');
    }
}
```

4) PetSupplies:

```

<?php namespace
App\Models;
use
Illuminate\Database\Eloquent\Factories\HasFactory; use
Illuminate\Database\Eloquent\Model;

class PetSupplies extends Model
{
    use
    HasFactory;
}

```

5) Comment:

```

<?php
namespace App\Models;
use
Illuminate\Database\Eloquent\Factories\HasFactory; use
Illuminate\Database\Eloquent\Model;
class Comment extends
Model
{
    use HasFactory;    protected $fillable = ['content',
'user_id', 'post_id'];
    public function
post()
    {
        return $this->belongsTo(Post::class);
    }    public
function user()
    {
        return $this->belongsTo(User::class);
    }
}

```

6) Post:

```

<?php namespace
App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory; use
Illuminate\Database\Eloquent\Model;
class Post extends
Model
{

```

```

        protected $fillable = ['title', 'content', 'user_id', 'cat_id',
'dog_id'];        public
function comments()
{
    return $this->hasMany(Comment::class);
}

    public function user()
    {
        return $this->belongsTo(User::class);
    }    public
function cat()
    {
        return $this->belongsTo(Cat::class);
    }    public
function dog()
    {
        return $this->belongsTo(Dog::class);
    }
}

```

7) User:

```

<?php namespace
App\Models;

// use Illuminate\Contracts\Auth\MustVerifyEmail; use
Illuminate\Database\Eloquent\Factories\HasFactory; use
Illuminate\Foundation\Auth\User as Authenticatable; use
Illuminate\Notifications\Notifiable;
class User extends
Authenticatable
{
    use HasFactory,
Notifiable;

    /**
     * The attributes that are mass assignable.
     *
     * @var array<int, string>
     */
    protected $fillable = [
        'name',
        'email',

```

```

        'password',
    ];

    /**
     * The attributes that should be hidden for serialization.
     *
     * @var array<int, string>
     */
    protected
    $hidden =
    [
        'password',
        'remember_token',
    ];

    /**
     * Get the attributes that should be cast.
     *
     * @return array<string, string>
     */
    protected function
    casts(): array

    {
        return
        [
            'email_verified_at' => 'datetime',
            'password' => 'hashed',
        ];
    }

    public function posts()
    {
        return
        $this->hasMany(Post::class);
    }

    public function comments()
    {
        return
        $this->hasMany(Comment::class);
    }
}

```

3. seeders:

1) BreedsTableSeeder

```

<?php namespace
Database\Seeders; use
Illuminate\Database\Seeder;
use App\Models\Breeds; use

```

```

Illuminate\Support\Facades\
DB;
class BreedsTableSeeder extends
Seeder
{
    /**
     * Run the database seeds.
     */
    public function
run(): void
    {
        DB::statement('SET FOREIGN_KEY_CHECKS=0;');

        DB::table('dog_pet_supplies')->truncate();

        DB::table('dogs')->truncate();

        DB::table('breeds')->truncate();

        DB::statement('SET FOREIGN_KEY_CHECKS=1;');

        Breeds::insert([
            [
                'name' => 'Labrador Retriever',
                'type' => 'Dog',
                'country' => 'Canada',
                'average_lifespan' => 10.0,
                'color' => 'Black, Yellow, Chocolate',
                'characteristics' => 'Friendly, Outgoing',
                'created_at' => now(),
                'updated_at' => now(),
            ],
            [
                'name' => 'German Shepherd',
                'type' => 'Dog',
                'country' => 'Germany',
                'average_lifespan' => 11.0,
                'color' => 'Black and Tan, Sable',
                'characteristics' => 'Intelligent, Loyal, Versatile',
                'created_at' => now(),
                'updated_at' => now(),
            ],
        ]
    }
}

```

```
'name' => 'Golden Retriever',
'type' => 'Dog',
'country' => 'Scotland',
'average_lifespan' => 11.0,
'color' => 'Golden, Cream',
'characteristics' => 'Intelligent, Friendly, Devoted',
'created_at' => now(),
'updated_at' => now(),
],
[
  'name' => 'Beagle',
  'type' => 'Dog',
  'country' => 'United Kingdom',
  'average_lifespan' => 12.0,
  'color' => 'Tri-color, Lemon, Red and White',
  'characteristics' => 'Curious, Merry, Friendly',
  'created_at' => now(),
  'updated_at' => now(),
],
[
  'name' => 'Bulldog',
  'type' => 'Dog',
  'country' => 'England',
  'average_lifespan' => 9.0,
  'color' => 'Fawn, White, Brindle',
  'characteristics' => 'Docile, Willful, Friendly',
  'created_at' => now(),
  'updated_at' => now(),
],
[
  'name' => 'Persian',
  'type' => 'Cat',
  'country' => 'Iran',
  'average_lifespan' => 14.0,
  'color' => 'White, Black, Blue, Cream',
  'characteristics' => 'Calm, Affectionate, Loyal',
  'created_at' => now(),
  'updated_at' => now(),
],
[
  'name' => 'Scottish Fold',
  'type' => 'Cat',
  'country' => 'Scotland',
  'average_lifespan' => 13.5,
```

```

        'color' => 'Various colors and patterns, including white,
black, blue, tabby',
        'characteristics' => 'Friendly, Playful, Adaptable',
        'created_at' => now(),
        'updated_at' => now(),
    ],
    [
        'name' => 'Abyssinian',
        'type' => 'Cat',
        'country' => 'Egypt',
        'average_lifespan' => 13.5,
        'color' => 'Reddish, Blue, Honey, Sorrel',
        'characteristics' => 'Active, Curious, Playful',
        'created_at' => now(),
        'updated_at' => now(),
    ],
    [
        'name' => 'Bengal',
        'type' => 'Cat',
        'country' => 'United States',
        'average_lifespan' => 14.0,
        'color' => 'Golden or silver background with black or
brown spots',
        'characteristics' => 'Energetic, Intelligent, Playful',
        'created_at' => now(),
        'updated_at' => now(),
    ],
    [
        'name' => 'Burmese',
        'type' => 'Cat',
        'country' => 'Myanmar',
        'average_lifespan' => 14.0,
        'color' => 'Sable, Champagne, Blue, Apricot',
        'characteristics' => 'Social, Active, Intelligent',
        'created_at' => now(),
        'updated_at' => now(),
    ],
    ];
    // Breeds::factory()->count(10)->create();
}
}

```

2) CatTableSeeder

```

<?php namespace
Database\Seeders;

```

```

    use Illuminate\Database\Seeder;
use App\Models\Cat; use
Illuminate\Support\Facades\DB;
    class CatTableSeeder extends
Seeder
{
    /**
     * Run the database seeds.
     */
    public function
run(): void
    {
        DB::statement('SET FOREIGN_KEY_CHECKS=0;');
DB::table('cats')->truncate();
        DB::statement('SET FOREIGN_KEY_CHECKS=1;');

        Cat::create([
            'name' => 'Persian',
            'country' => 'Iran',
            'theLengthOfLife' => 14.0,
            'color' => 'white, black, blue, cream',
            'breed_id' => 6,
            'created_at' => now(),
            'updated_at' => now(),
        ]);

        Cat::create([
            'name' => 'Burmese',
            'country' => 'Myanmar',
            'theLengthOfLife' => 14.0,
            'color' => 'sable, champagne, blue, apricot',
            'breed_id' =>10,
            'created_at' => now(),
            'updated_at' => now(),
        ]);

        Cat::create([
            'name' => 'Scottish Fold',
            'country' => 'Scotland',
            'theLengthOfLife' => 13.5,
            'color' => 'various colors and patterns, including white,
black, blue, tabby',
            'breed_id' =>7,
            'created_at' => now(),
            'updated_at' => now(),
        ]);
    }
}

```



```

        Cat::create([
            'name' => 'Abyssinian',
            'country' => 'Egypt',
            'theLengthOfLife' => 13.5,
            'color' => 'reddish, blue, honey, sorrel',
            'breed_id' => 8,
            'created_at' => now(),
            'updated_at' => now(),
        ]);

        Cat::create([
            'name' => 'Bengal',
            'country' => 'United States',
            'theLengthOfLife' => 14.0,
            'color' => 'golden or silver background with black or brown
spots',
            'breed_id' => 9,
            'created_at' => now(),
            'updated_at' => now(),
        ]);
        Cat::factory()->count(10)->create();
    }
}

```

3) CommentSeeder

```

<?php
namespace Database\Seeders;
use
Illuminate\Database\Console\Seeds\WithoutModelEvents; use
Illuminate\Database\Seeder;
class CommentSeeder extends
Seeder
{
    /**
     * Run the database seeds.
     */
    public function
run(): void
    {
        \App\Models\Comment::factory()->count(50)->create();
    }
}

```

```
}
```

4) DatabaseSeeder

```
<?php namespace
Database\Seeders;

use
App\Models\User;
// use Illuminate\Database\Console\Seeds\WithoutModelEvents;
use Illuminate\Database\Seeder;
use Illuminate\Support\Facades\DB;
use App\Models\Cat;
use App\Models\Dog;
use App\Models\PetSupplies;
use App\Models\User;
use App\Models\Post;
use App\Models\Comment;

class DatabaseSeeder extends Seeder
{
    /**
     * Seed the application's database.
     */
    public function run(): void
    {
        DB::table('users')->truncate();
        DB::table('cat_pet_supplies')->truncate();
        DB::table('dog_pet_supplies')->truncate();

        User::factory()->create([
            'name' => 'Test User',
            'email' => 'test@example.com',
        ]);

        $this->call(CatTableSeeder::class);
        $this->call(DogTableSeeder::class);
        $this->call(BreedsTableSeeder::class);
        $this->call(PetSuppliesTableSeeder::class);
        $this->call(PostSeeder::class);
        $this->call(CommentSeeder::class);
        $this->call(UsersTableSeeder::class);
    }
}
```

```

        User::factory()->create([
            'name' => 'Test User',
            'email' => 'test@example.com',
        ]);

        $cats = Cat::all();
        $petSupplies = PetSupplies::all();
        foreach ($cats as $cat)
        {

            $cat->petSupplies()->attach($petSupplies->random(rand(1,
3))->pluck('id')->toArray());
        }

        $dogs = Dog::all();
        foreach ($dogs as $dog)
        {

            $dog->petSupplies()->attach($petSupplies->random(rand(1,
3))->pluck('id')->toArray());
        }
    }
}

```

5) DogTableSeeder

```

<?php namespace
Database\Seeders;
use Illuminate\Database\Seeder;
use App\Models\Dog; use
Illuminate\Support\Facades\DB;
class DogTableSeeder extends
Seeder
{
    /**
     * Run the database seeds.
     */
    public function
run(): void

```

```

{

    DB::statement('SET FOREIGN_KEY_CHECKS=0;');
DB::table('dogs')->truncate();
    DB::statement('SET FOREIGN_KEY_CHECKS=1;');

    Dog::create([
        'name' => 'Labrador Retriever',
        'country' => 'Canada',
        'theLengthOfLife' => 10.0,
        'color' => 'Black, Yellow, Chocolate',
        'breed_id' => 1,
        'created_at' => now(),
        'updated_at' => now(),
    ]);

    Dog::create([
        'name' => 'German Shepherd',
        'country' => 'Germany',
        'theLengthOfLife' => 11.0,
        'color' => 'Black and Tan, Sable',
        'breed_id' => 2,
        'created_at' => now(),
        'updated_at' => now(),
    ]);

    Dog::create([
        'name' => 'Golden Retriever',
        'country' => 'Scotland',
        'theLengthOfLife' => 11.0,
        'color' => 'Golden, Cream',
        'breed_id' => 3,
        'created_at' => now(),
        'updated_at' => now(),
    ]);

    Dog::create([
        'name' => 'Bulldog',
        'country' => 'England',
        'theLengthOfLife' => 9.0,
        'color' => 'Fawn, White, Brindle',
        'breed_id' => 5,
        'created_at' => now(),
        'updated_at' => now(),
    ]);

```

```

]);

Dog::create([
    'name' => 'Beagle',
    'country' => 'United Kingdom',
    'theLengthOfLife' => 12.0,
    'color' => 'Tri-color, Lemon, Red and White',
    'breed_id' => 4,
    'created_at' => now(),
    'updated_at' => now(),
]);
Dog::factory()->count(10)->create();
}
}

```

6) PetSuppliesTableSeeder

```

<?php
namespace Database\Seeders;
use Illuminate\Database\Seeder;
use App\Models\PetSupplies; use
Illuminate\Support\Facades\DB;

class PetSuppliesTableSeeder extends Seeder
{
    /**
     * Run the database seeds.
     *
     * @return void
     */
    public function run()
    {

        DB::statement('SET FOREIGN_KEY_CHECKS=0;');
        DB::table('dog_pet_supplies')->truncate();
        DB::table('pet_supplies')->truncate();
        DB::statement('SET FOREIGN_KEY_CHECKS=1;');

        PetSupplies::create([
            'name' => 'Premium Cat Food',

```

```

        'type' => 'Food',
        'price' => 20.2,
        'description' => 'Nutritious cat food with high protein
content.',
    ]);

    PetSupplies::create([
        'name' => 'Catnip Mouse Toy',
        'type' => 'Toy',
        'price' => 9.99,
        'description' => 'Soft plush mouse filled with catnip for
playful cats.',
    ]);

    PetSupplies::create([
        'name' => 'Flea and Tick Prevention',
        'type' => 'Care',
        'price' => 24.99,
        'description' => 'Effective treatment for fleas and ticks.',
    ]);

    PetSupplies::create([
        'name' => 'Training Pads',
        'type' => 'Training',
        'price' => 19.06,
        'description' => 'Absorbent training pads for housebreaking
puppies.',
    ]);

    PetSupplies::create([
        'name' => 'Cat Brush',
        'type' => 'Grooming',
        'price' => 14.43,
        'description' => 'Effective brush for removing loose fur and
reducing shedding.',
    ]);
    PetSupplies::factory()->count(10)->create();
}
}

```

7) PostSeeder

```

<?php namespace
Database\Seeders;

```

```

use
Illuminate\Database\Console\Seeds\WithoutModelEvents; use
Illuminate\Database\Seeder;
class PostSeeder extends
Seeder
{
    /**
     * Run the database seeds.
     */    public function
run(): void
    {
        \App\Models\Post::factory()->count(10)->create();
    }
}

```

8) UserTableSeeder

```

<?php namespace
Database\Seeders;
use
Illuminate\Database\Console\Seeds\WithoutModelEvents; use
Illuminate\Database\Seeder;
use App\Models\User;
class UsersTableSeeder extends
Seeder
{
    /**
     * Run the database seeds.
     */    public function
run(): void
    {
        User::factory()->count(10)->create();
    }
}

```

4. factory:

1) BreedsFactory

```

<?php namespace
Database\Factories;

use
Illuminate\Database\Eloquent\Factories\Factory; use
App\Models\Breeds;
/**
 * @extends
 * \Illuminate\Database\Eloquent\Factories\Factory<\App\Models\Breeds>
 */
class BreedsFactory extends Factory
{
    /**
     * Define the model's default state.
     *
     * @return array<string, mixed>
     */
    public function definition(): array
    {
        return
        [
            'name' => $this->faker->unique()->word(),

            'type' => $this->faker->randomElement(['Dog', 'Cat']),
            'country' => $this->faker->country(),
            'average_lifespan' => $this->faker->randomFloat(1, 5, 20),

            'color' => $this->faker->word() . ', ' .
            $this->faker->word() . ', ' . $this->faker->word(),
            'characteristics' => $this->faker->sentence(),
            'created_at' => now(),
            'updated_at' => now(),
        ];
    }
}

```

2) CatFactory

```

<?php namespace
Database\Factories;

use App\Models\Cat; use
Illuminate\Database\Eloquent\Factories\Factory; use
App\Models\Breeds; class CatFactory extends Factory

```



```

{
    protected $model =
    Cat::class;

    public function definition()

    {
        return
    n [
        'name' => $this->faker->word,
        'country' => $this->faker->country,
        'theLengthOfLife' => $this->faker->numberBetween(10, 15),
        'color' => $this->faker->word,
        'breed_id' => Breeds::inRandomOrder()->first()->id,
    ];
    }
}

```

```

3) CommentFactory
<?php namespace
Database\Factories;
use
Illuminate\Database\Eloquent\Factories\Factory; use
App\Models\Comment; use App\Models\User; use
App\Models\Post;

/**
 * @extends
\Illuminate\Database\Eloquent\Factories\Factory<\App\Models\Comment>
 */ class CommentFactory extends
Factory
{
    /**
     * Define the model's default state.
     *
     * @return array<string, mixed>
     */
    public function
definition(): array

    {
        return
    n [
        'content' => $this->faker->sentence,
        'user_id' => User::factory(),
        'post_id' => Post::factory(),
    ];
}

```

```

    }
}

```

4) DogFactory

```

<?php namespace
Database\Factories;
use App\Models\Dog;
use Illuminate\Database\Eloquent\Factories\Factory;
use App\Models\Breeds;
class DogFactory extends
Factory {    protected $model =
Dog::class;
    public function
definition()

{
    return
n [
        'name' => $this->faker->name,
        'country' => $this->faker->country,
        'theLengthOfLife' => $this->faker->numberBetween(8, 15),
        'color' => $this->faker->colorName,
        'breed_id' => Breeds::inRandomOrder()->first()->id,
        'created_at' => now(),
        'updated_at' => now(),
    ];
}
}

```

5) PetSuppliesFactory

```

<?php namespace
Database\Factories;
Use
Illuminate\Database\Eloquent\Factories\Factory;
use App\Models\PetSupplies;
/**
 * @extends
\Illuminate\Database\Eloquent\Factories\Factory<\App\Models\PetSupplies

```

```

> */ class PetSuppliesFactory extends
Factory
{
    /**
    * Define the model's default state.
    *
    * @return array<string, mixed>
    */
    public function definition(): array

    {
        return
        [
            'name'
            =>
$this->faker->u
nique()->word()
. ' ' .
$this->faker->word(),
            'type' => $this->faker->randomElement(['Food', 'Toy',
'Care', 'Training', 'Grooming']),
            'price' => $this->faker->randomFloat(2, 5, 50),

            'description' => $this->faker->sentence(),
            'created_at' => now(),
            'updated_at' => now(),
        ];
    }
}

```

6) PostFactory

```

<?php namespace
Database\Factories;

use
Illuminate\Database\Eloquent\Factories\Factory; use
App\Models\Post; use App\Models\User;

/**
 * @extends
\Illuminate\Database\Eloquent\Factories\Factory<\App\Models\Post>
 */ class PostFactory extends
Factory
{

```

```

    /**
     * Define the model's default state.
     *
     * @return array<string, mixed>
     */
    public function definition(): array

{
    return
n [
        'title' => $this->faker->sentence,
        'content' => $this->faker->paragraph(5),
        'user_id' => User::factory(),
    ];
}
}

```

7) UserFactory

```

<?php namespace
Database\Factories;

use
Illuminate\Database\Eloquent\Factories\Factory; use
Illuminate\Support\Facades\Hash; use
Illuminate\Support\Str;

/**
 * @extends
 \Illuminate\Database\Eloquent\Factories\Factory<\App\Models\User>
 */ class UserFactory extends
Factory
{
    /**
     * The current password being used by the factory.
     */
    protected static ?string
$password;

    /**
     * Define the model's default state.
     *
     * @return array<string, mixed>
     */
    public function
definition(): array

```

```

{           retur
n [
    'name' => fake()->name(),
    'email' => fake()->unique()->safeEmail(),
    'email_verified_at' => now(),
    'password' => static::$password ??= Hash::make('password'),
    'remember_token' => Str::random(10),
];
}

/**
 * Indicate that the model's email address should be unverified.
 */
public function unverified(): static
{
    return $this->state(fn (array
$attributes) => [
        'email_verified_at' => null,
    ]);
}
}

```