Model Definitions

Comment:

```
W User.php M
               Comment.php M X
                                   M DatabaseSeeder.php M
                                                            W Con
app > Models > 🐄 Comment.php
      <?php
      namespace App\Models;
      use Illuminate\Database\Eloquent\Factories\HasFactory;
      use Illuminate\Database\Eloquent\Model;
      class Comment extends Model
          use HasFactory;
          public function post() {
 11
               return $this->belongsTo(Post::class);
 12
 13
 15
          public function user() {
               return $this->belongsTo(User::class);
 17
 19
```

Post:

User:

Note: This is the default user model added by breeze, which I have modified to add the posts() and comments() methods.

```
W User.php M X
app > Models > 🦛 User.php
      <?php
      namespace App\Models;
      use Illuminate\Database\Eloquent\Factories\HasFactory;
      use Illuminate\Foundation\Auth\User as Authenticatable;
      use Illuminate\Notifications\Notifiable;
      use Laravel\Sanctum\HasApiTokens;
      class User extends Authenticatable
          use HasApiTokens, HasFactory, Notifiable;
          public function posts() {
              return $this->hasMany(Post::class);
          public function comments() {
              return $this->hasMany(Comment::class);
 20
           */
 25
          protected $fillable = [
              'email',
              'password',
 30
          protected $hidden = [
              'remember_token',
          protected $casts = [
              'email_verified_at' => 'datetime',
```

Migrations:

User:

Note: This is the default users migration supplied by breeze

```
W User.php M
               * 2014_10_12_000000_create_users_table.php X
database > migrations > 🖛 2014_10_12_000000_create_users_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
            * @return void
 12
 13
 14
           public function up()
               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();
 23
 24
               });
 25
 27
           * Reverse the migrations.
 29
            * @return void
           public function down()
 32
               Schema::dropIfExists('users');
 34
      };
```

Posts:

```
User.php M
               * 2022_11_05_172446_create_posts_table.php X
database > migrations > 🏶 2022_11_05_172446_create_posts_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
            * @return void
 12
          public function up()
 15
               Schema::create('posts', function (Blueprint $table) {
                   $table->id();
                   $table->bigInteger('user_id')->references('id')->on('users')
                            ->onDelete('cascade')->onUpdate('cascade');
 20
                   $table->string('contents');
                   $table->timestamps();
 21
 22
 25
 29
          public function down()
               Schema::dropIfExists('posts');
      };
```

Comments:

```
User.php M
               * 2022_11_05_172500_create_comments_table.php X
database > migrations > 😭 2022_11_05_172500_create_comments_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.
           * @return void
 12
 13
          public function up()
              Schema::create('comments', function (Blueprint $table) {
                   $table->id();
                  $table->bigInteger('post_id')->references('id')->on('posts')
                           ->onDelete('cascade')->onUpdate('cascade');
                   $table->bigInteger('user_id')->references('id')->on('users')
                           ->onDelete('cascade')->onUpdate('cascade');
 21
                   $table->string('contents');
 22
                  $table->timestamps();
 24
           * Reverse the migrations.
           * @return void
          public function down()
              Schema::dropIfExists('comments');
 34
      };
```

Tags:

```
W User.php M
                ** 2022_11_05_172512_create_tags_table.php X
database > migrations > * 2022_11_05_172512_create_tags_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
            * @return void
 12
 13
           public function up()
 15
               Schema::create('tags', function (Blueprint $table) {
                   $table->id();
                   $table->string('name');
                   $table->timestamps();
               });
 21
 22
 23
            * Reverse the migrations.
 24
 25
            * @return void
 27
           public function down()
 29
               Schema::dropIfExists('tags');
 32
       };
```

Post tag pivot table:

```
W User.php M
               # 2022_11_06_180153_create_post_tag_table.php X
database > migrations > 🙌 2022_11_06_180153_create_post_tag_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
           * @return void
 12
 13
          public function up()
 14
               Schema::create('post_tag', function (Blueprint $table) {
                   $table->primary(['post_id', 'tag_id']);
                   $table->bigInteger('post_id')->unsigned();
                   $table->bigInteger('tag_id')->unsigned();
                   $table->timestamps();
 21
                   $table->foreign('post_id')->references('id')->on('posts')
                           ->onDelete('cascade')->onUpdate('cascade');
 23
                   $table->foreign('tag_id')->references('id')->on('tags')
                           ->onDelete('cascade')->onUpdate('cascade');
               });
 27
           * Reverse the migrations.
            * @return void
          public function down()
 34
               Schema::dropIfExists('post_tag');
      };
```

Seeders

Database seeder:

```
User.php M
              M DatabaseSeeder.php M X
database > seeders > 🦬 DatabaseSeeder.php
     <?php
     namespace Database\Seeders;
     // use Illuminate\Database\Console\Seeds\WithoutModelEvents;
     use Illuminate\Database\Seeder;
     class DatabaseSeeder extends Seeder
          * Seed the application's database.
11
12
13
           * @return void
          public function run()
15
              $this->call(UserTableSeeder::class);
17
              $this->call(TagTableSeeder::class);
              $this->call(PostTableSeeder::class);
20
              $this->call(CommentTableSeeder::class);
23
```

User table seeder:

```
🐄 User.php M
              Comment.php M
                                database > seeders > 🦬 UserTableSeeder.php
     <?php
     namespace Database\Seeders;
     use Illuminate\Database\Console\Seeds\WithoutModelEvents;
     use Illuminate\Database\Seeder;
     use App\Models\User;
     use App\Models\Post;
     use App\Models\Comment;
     use App\Models\Tag;
 11
      class UserTableSeeder extends Seeder
 12
 13
 15
          * @return void
 17
          public function run()
              $test = new User;
 21
             $test->name = "Rachel";
 22
             $test->email = "Rachel@fake.com";
 23
             $test->email_verified_at = now();
 24
             $test->password = "GoodPassword123";
 25
             $test->save();
             User::factory()->count(10)->create();
 28
 29
```

Tag table seeder:

```
User.php M 💮 DatabaseSeeder.php M
                                       * TagTableSeeder.php X
database > seeders > 🦬 TagTableSeeder.php
     <?php
     namespace Database\Seeders;
     use Illuminate\Database\Console\Seeds\WithoutModelEvents;
     use Illuminate\Database\Seeder;
     use App\Models\Tag;
     class TagTableSeeder extends Seeder
11
12
           * Run the database seeds.
13
14
15
          public function run()
17
              $test = new Tag;
              $test->name = "New posts get the new post tag";
             $test->save();
              Tag::factory()->count(10)->create();
22
24
25
```

Post table seeder:

```
User.php M
              M DatabaseSeeder.php M
                                      PostTableSeeder.php X
latabase > seeders > 🦛 PostTableSeeder.php
     <?php
     namespace Database\Seeders;
     use Illuminate\Database\Console\Seeds\WithoutModelEvents;
    use Illuminate\Database\Seeder;
     use App\Models\Post;
     use App\Models\Tag;
     class PostTableSeeder extends Seeder
12
           * @return void
          public function run()
              $testTag = Tag::find(1);
              Post::factory()->hasAttached($testTag)->create(
                  ['contents' => "This is a test post!", 'user_id' => 1]);
              // of existing tags, with no duplicates
              $randomTags = function() {
                  $tags = [];
                  $usedtags = [];
                  $i = mt_rand(1,5);
                  for ($x = 0; $x < $i; $x++) {
                      $newId = mt_rand(2, Tag::count());
                      while (in_array($newId, $usedtags)) {
                          $newId = mt_rand(2, Tag::count());
                      array_push($tags, Tag::where('id', $newId)->get()[0]);
                      array_push($usedtags, $newId);
                  return $tags;
              for ($x = 0; $x < 50; $x++) {
                  Post::factory()->hasAttached($randomTags())->create();
45
```

Comment table seeder:

```
User.php M
             DatabaseSeeder.php M
                                      CommentTableSeeder.php M X
database > seeders > 🦬 CommentTableSeeder.php
      <?php
    namespace Database\Seeders;
     use Illuminate\Database\Console\Seeds\WithoutModelEvents;
     use Illuminate\Database\Seeder;
     use App\Models\Comment;
      class CommentTableSeeder extends Seeder
 11
          * Run the database seeds.
12
13
          * @return void
14
15
          public function run()
          {
17
              $test = new Comment;
              $test->contents = "This is a test comment on the test post!";
19
              $test->user_id = 1;
              $test->post_id = 1;
              $test->save();
22
24
              Comment::factory()->count(50)->create();
25
27
```

Factories

User factory:

Note: This is the default user factory provided. I have not modified it.

```
** DatabaseSeeder.php M
                                               R CommentTableSeeder.php M
                                                                                  ♥ UserFactory.php X
database > factories > 🐄 UserFactory.php
       use Illuminate\Database\Eloquent\Factories\Factory;
       use Illuminate\Support\Str;
            public function definition()
                     'name' => fake()->name(),
'email' => fake()->unique()->safeEmail(),
'email_verified_at' => now(),
'password' => '$2y$10$92IXUNpkj00r0Q5byMi.Ye4oKoEa3Ro9llC/.og/at2.uheWG/igi', // password
                      'remember_token' => Str::random(10),
             * Indicate that the model's email address should be unverified.
            public function unverified()
                 return $this->state(fn (array $attributes) => [
                       'email_verified_at' => null,
```

Tag factory:

Post factory:

Comment factory:

```
W User.php M
                M DatabaseSeeder.php M
                                         CommentTableSeeder.php M

    CommentFactory.php 
    X

database > factories > * CommentFactory.php
      <?php
      namespace Database\Factories;
      use Illuminate\Database\Eloquent\Factories\Factory;
      use App\Models\Post;
      use App\Models\User;
      class CommentFactory extends Factory
           public function definition()
               return [
                    'post_id' => rand(1, Post::count()),
                    'user_id' => rand(1, User::count()),
                   'contents' => fake()->text()
```