Coursework 1a SPost Web Application

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# 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;

class CreateUsersTable extends Migration

{

/\*\*

\* Run the migrations.

\*

\* @return void

\*/

public function up()

{

Schema::create('users', function (Blueprint $table) {

$table->id();

$table->string('title');

$table->string('firstname');

$table->string('lastname');

$table->string('profile\_image');

$table->string('cover\_image');

$table->string('username');

$table->string('phone\_number');

$table->string('email')->unique();

$table->timestamp('email\_verified\_at')->nullable();

$table->string('address');

$table->string('password');

$table->rememberToken();

$table->timestamps();

});

}

/\*\*

\* Reverse the migrations.

\*

\* @return void

\*/

public function down()

{

Schema::dropIfExists('users');

}

}

## 2020\_11\_02\_213432\_create\_posts\_table.php

<?php

use Illuminate\Database\Migrations\Migration;

use Illuminate\Database\Schema\Blueprint;

use Illuminate\Support\Facades\Schema;

class CreatePostsTable extends Migration

{

/\*\*

\* Run the migrations.

\*

\* @return void

\*/

public function up()

{

Schema::create('posts', function (Blueprint $table) {

$table->id();

$table->mediumText('title');

$table->longText('content');

$table->string('image');

$table->timestamps();

// Foreign Keys:

$table->bigInteger('user\_id')->unsigned();

// References:

$table->foreign('user\_id')->references('id')->on('users')

->onDelete('cascade')->onUpdate('cascade');

});

}

/\*\*

\* Reverse the migrations.

\*

\* @return void

\*/

public function down()

{

Schema::dropIfExists('posts');

}

}

## 2020\_11\_02\_213446\_create\_comments\_table.php

<?php

use Illuminate\Database\Migrations\Migration;

use Illuminate\Database\Schema\Blueprint;

use Illuminate\Support\Facades\Schema;

class CreateCommentsTable extends Migration

{

/\*\*

\* Run the migrations.

\*

\* @return void

\*/

public function up()

{

Schema::create('comments', function (Blueprint $table) {

$table->id();

$table->longText('content');

$table->string('image');

$table->timestamps();

// Foreign Keys:

$table->bigInteger('user\_id')->unsigned();

$table->bigInteger('post\_id')->unsigned();

// References:

$table->foreign('user\_id')->references('id')->on('users')

->onDelete('cascade')->onUpdate('cascade');

$table->foreign('post\_id')->references('id')->on('posts')

->onDelete('cascade')->onUpdate('cascade');

});

}

/\*\*

\* Reverse the migrations.

\*

\* @return void

\*/

public function down()

{

Schema::dropIfExists('comments');

}

}

# Models

## User.php

<?php

namespace App;

use Illuminate\Contracts\Auth\MustVerifyEmail;

use Illuminate\Foundation\Auth\User as Authenticatable;

use Illuminate\Notifications\Notifiable;

class User extends Authenticatable

{

use Notifiable;

/\*\*

\* The attributes that are mass assignable.

\*

\* @var array

\*/

protected $fillable = [

'name', 'email', 'password',

];

/\*\*

\* The attributes that should be hidden for arrays.

\*

\* @var array

\*/

protected $hidden = [

'password', 'remember\_token',

];

/\*\*

\* The attributes that should be cast to native types.

\*

\* @var array

\*/

protected $casts = [

'email\_verified\_at' => 'datetime',

];

// Returns all of the user's posts

public function posts()

{

return $this->hasMany('App\Post');

}

// Returns all of a users comments on all posts

public function comments()

{

return $this->hasMany('App\Comment');

}

}

## Post.php

<?php

namespace App;

use Illuminate\Database\Eloquent\Model;

class Post extends Model

{

// Returns the user who submitted the post

public function user()

{

return $this->belongsTo('App\User');

}

// Returns the comments on a post

public function comments()

{

return $this->hasMany('App\Comment');

}

}

## Comment.php

<?php

namespace App;

use Illuminate\Database\Eloquent\Model;

class Comment extends Model

{

// Returns the user who posted the comment

public function user()

{

return $this->belongsTo('App\User');

}

// Returns the post which was commented on

public function post()

{

return $this->belongsTo('App\Post');

}

}

# Seeders

## DatabaseSeeder.php

<?php

use Illuminate\Database\Seeder;

class DatabaseSeeder extends Seeder

{

/\*\*

\* Seed the application's database.

\*

\* @return void

\*/

public function run()

{

$this->call(UserTableSeeder::class);

$this->call(PostTableSeeder::class);

$this->call(CommentTableSeeder::class);

}

}

## UserTableSeeder.php

<?php

use Illuminate\Database\Seeder;

use App\User;

class UserTableSeeder extends Seeder

{

/\*\*

\* Run the database seeds.

\*

\* @return void

\*/

public function run()

{

$user1 = new User;

$user1->title = "Mr";

$user1->firstname = "Bob";

$user1->lastname = "Ross";

$user1->username = "HappyAccidents";

$user1->profile\_image = "";

$user1->cover\_image = "";

$user1->phone\_number = "07704649888";

$user1->email = "bobross@gmail.com";

$user1->address = "1 Apple Park Way, Cupertino, Californa, United States";

$user1->password = "Painting123";

$user1->save();

$user2 = new User;

$user2->title = "Dr";

$user2->firstname = "Andrew";

$user2->lastname = "Clarke";

$user2->username = "AndyC";

$user2->profile\_image = "";

$user2->cover\_image = "";

$user2->phone\_number = "07744449223";

$user2->email = "andyc@outlook.com";

$user2->address = "74-78 Avon St, Bristol, United Kingdom";

$user2->password = "Back&Forth112";

$user2->save();

factory(App\User::class, 20)->create();

}

}

## PostTableSeeder.php

<?php

use Illuminate\Database\Seeder;

use App\Post;

class PostTableSeeder extends Seeder

{

/\*\*

\* Run the database seeds.

\*

\* @return void

\*/

public function run()

{

$post1 = new Post;

$post1->title = "Hello Everyone!";

$post1->content = "Hi Everyone. My name is Bob Ross and I'm new to SPost. Who likes my paintings?";

$post1->image = "";

$post1->user\_id = 1;

$post1->save();

factory(App\Post::class, 50)->create();

}

}

## CommentTableSeeder.php

<?php

use Illuminate\Database\Seeder;

use App\Comment;

class CommentTableSeeder extends Seeder

{

/\*\*

\* Run the database seeds.

\*

\* @return void

\*/

public function run()

{

$comment1 = new Comment;

$comment1->content = "Yes, there great!";

$comment1->image = "";

$comment1->user\_id = 2;

$comment1->post\_id = 1;

$comment1->save();

factory(App\Comment::class, 100)->create();

}

}

# Factories

## UserFactory.php

<?php

/\*\* @var \Illuminate\Database\Eloquent\Factory $factory \*/

use App\User;

use Faker\Generator as Faker;

use Illuminate\Support\Str;

$factory->define(User::class, function (Faker $faker) {

return [

'title' => $faker->title,

'firstname' => $faker->firstName,

'lastname' => $faker->lastName,

'username' => $faker->userName,

'profile\_image'=> $faker->imageURL,

'cover\_image'=> $faker->imageURL,

'phone\_number' => $faker->phoneNumber,

'email' => $faker->unique()->safeEmail,

'email\_verified\_at' => now(),

'address' => $faker->address,

'password' => $faker->password(),

'remember\_token' => Str::random(10),

];

});

## PostFactory.php

<?php

/\*\* @var \Illuminate\Database\Eloquent\Factory $factory \*/

use App\Post;

use Faker\Generator as Faker;

$factory->define(Post::class, function (Faker $faker) {

return [

'title' => $faker->realText(50),

'content' => $faker->realText(300),

'image' => $faker->imageURL(),

'user\_id'=>App\User::inRandomOrder()->first()->id,

];

});

## CommentFactory.php

<?php

/\*\* @var \Illuminate\Database\Eloquent\Factory $factory \*/

use App\Comment;

use Faker\Generator as Faker;

$factory->define(Comment::class, function (Faker $faker) {

return [

'content' => $faker->realText(200),

'image' => $faker->imageURL(),

'user\_id'=>App\User::inRandomOrder()->first()->id,

'post\_id'=>App\Post::inRandomOrder()->first()->id,

];

});