

Assignment Module 18

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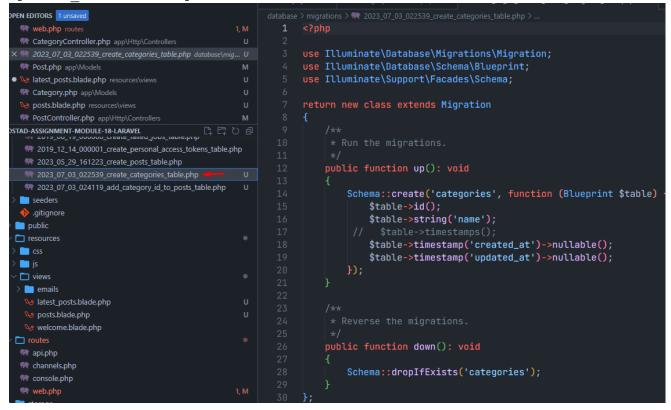
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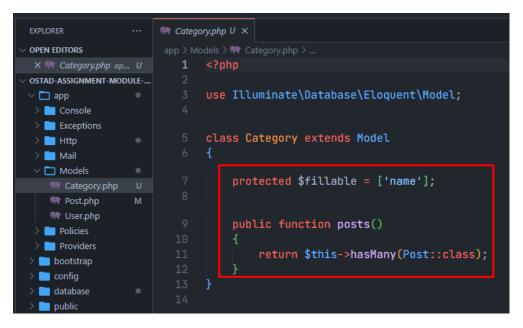
Task: 1

Create a new migration file to add a new table named "categories" to the database. The table should have the following columns:

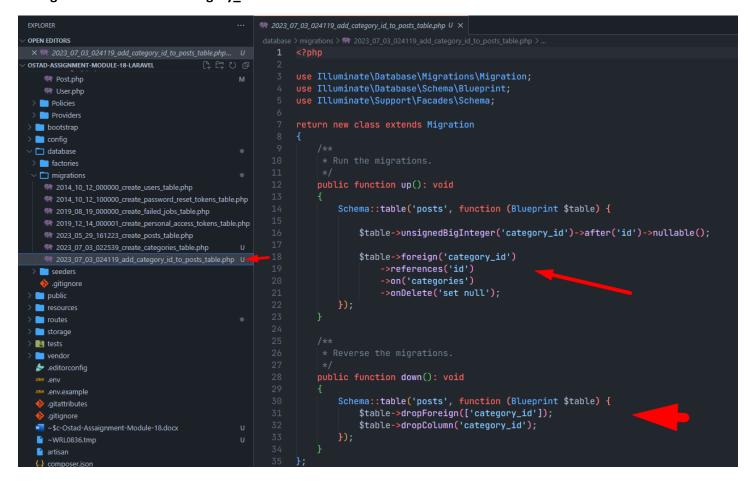
```
id (primary key, auto-increment)
name (string)
created_at (timestamp)
updated at (timestamp)
```



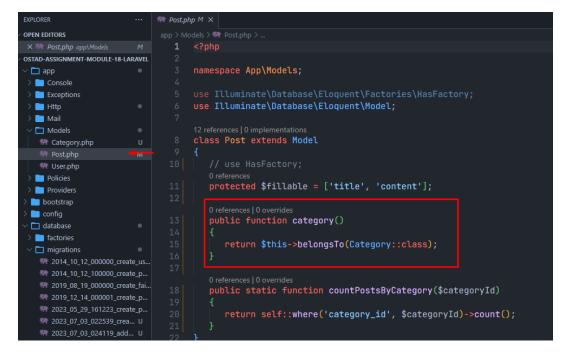
<u>Task: 2</u>
Create a new model named "Category" associated with the "categories" table. Define the necessary properties and relationships.



<u>Task 3:</u> Write a migration file to add a foreign key constraint to the "posts" table. The foreign key should reference the "categories" table on the "category_id" column.



<u>Task 4:</u> Create a relationship between the "Post" and "Category" models. A post belongs to a category, and a category can have multiple posts.



Task 5:

Write a query using Eloquent ORM to retrieve all posts along with their associated categories. Make sure to eager load the categories to optimize the query.

Controller:

```
ER
                          PostController.php M X
DITORS
                           app > Http > Controllers > 😭 PostController.php >
                                   namespace App\Http\Controllers;
PostController.php app\Htt... M
-ASSIGNMENT-M... 🖺 📮 🖔 🗊
                                   use App\Models\Post;
app
                                   use Illuminate\Http\Request;
Console
                                   use Illuminate\Support\Facades\DB;
Exceptions
Controllers
                                   class PostController extends Controller
ContactController.php
Controller.php
CustomAuthController.php
                                        public function index()
 PostController.php
ProductController.php
                                             $posts = Post::with('category')->get();
ProfileController.php
R SettingsController.php
                                             return view('posts.index', compact('posts'));
Middleware
Kernel.php
Mail
                                        0 references | 0 overrides
Models
                                        public function ass_mod17_q2()
Category.php
 Post.php
                                             $posts = DB::table('posts')
```

Route:

```
Route::get('/', function () {
    return view('welcome');
});
channels.php
console.php

web.php
storage
vendor
leditorconfig
leditorconfig
leditorconfig
lev .env

Route::get('/', function () {
    return view('welcome');
});

Route::get('/posts', [PostController::class, 'index'])->name('posts.index');

Route::delete('/posts/{id}//delete', function ($id) {
    $post = Post::findOrFail($id);
}
```

<u>Task 6</u>:

Implement a method in the "Post" model to get the total number of posts belonging to a specific category. The method should accept the category ID as a parameter and return the count.

```
PEN EDITORS
 Post.php app\Models
                                    <?php
TAD-ASSIGNMENT-MODULE-18-LARAVEL
                                    namespace App\Models;
  ContactController.php
  Controller.php
                                    use Illuminate\Database\Eloquent\Factories\HasFactory;
  CustomAuthController.php
                                    use Illuminate\Database\Eloquent\Model;
  PostController.php
  ProductController.php
  ProfileController.php
                                    class Post extends Model
  SettingsController.php
  Middleware
                                       // use HasFactory;
 Kernel.php
 Mail
                                       protected $fillable = ['title', 'content'];
Models
 R Category.php
                                       0 references | 0 overrides
 Post.php
                                       public function category()
 User.php
 Policies
                                           return $this->belongsTo(Category::class);
 Providers
bootstrap
 config
                                       public static function countPostsByCategory($categoryId)
database
 factories
                                           return self::where('category_id', $categoryId)->count();
migrations
 2014_10_12_000000_create_us...
 ? 2014 10 12 100000 create p.
```

Task 7:

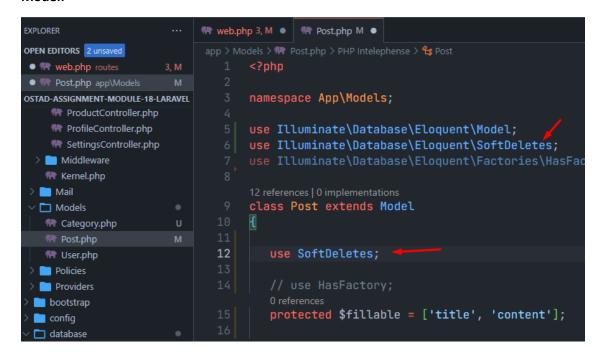
Create a new route in the web.php file to handle the following URL pattern: "/posts/{id}/delete". Implement the corresponding controller method to delete a post by its ID. Soft delete should be used.

Controller:

```
Controllers
                                               return view('posts.index', compact('posts'))
  ContactController.php
  Controller.php
  CustomAuthController.php
                                          1 reference | 0 overrides
  PostController.php
                                          public function delete($id)
  ProductController.php
  ProfileController.php
                                               $post = Post::findOrFail($id);
  SettingsController.php
                                               $post->delete();
                                21
 Middleware
                                22
 Kernel.php
  Mail
```

Route:

Model:



<u>Task 8:</u> Implement a method in the "Post" model to get all posts that have been soft deleted. The method should return a collection of soft deleted posts.

```
0 references | 0 overrides
   SettingsController.php
                                        public static function countPostsByCategory($categoryId)
 Middleware
  Kernel.php
                                           return self::where('category_id', $categoryId)->count();
> Mail

∨ □ Models

  Category.php
                                        0 references | 0 overrides
  Post.php
                                        public static function getSoftDeletedPosts()
  W User.php
                               28
 Policies
                                            return self::onlyTrashed()->get();
 Providers
  bootstrap
```

Task 9:

Write a Blade template to display all posts and their associated categories. Use a loop to iterate over the posts and display their details.

Task 10:

Create a new route in the web.php file to handle the following URL pattern: "/categories/{id}/posts". Implement the corresponding controller method to retrieve all posts belonging to a specific category. The category ID should be passed as a parameter to the method.

Controller:

Route:

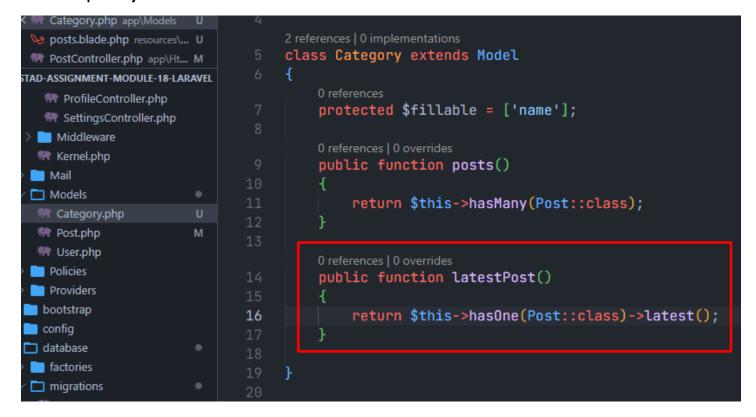
```
routes

rapi,php

rapi,php
```

Task 11:

Implement a method in the "Category" model to get the latest post associated with the category. The method should return the post object.



Task 12:

Write a Blade template to display the latest post for each category. Use a loop to iterate over the categories and display the post details.

View:

Route:

Controller: