Ostad

Assignment-18

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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)

```
M Kernel.php
                                                       return new class extends Migration
 Post.php
 🖛 User.php
                                                           public function up(): void
> bootstrap
                                                                Schema::create('categories', function (Blueprint $table) {

    database

                                                                   $table->id();
> factories
                                                                    $table->string('name',50);
                                                                    $table->timestamp('created_at')->useCurrent();
 * 2023_06_25_075858_create_categories_table.php
                                                                    $table->timestamp('updated_at')->useCurrent()->useCurrentOnUpdate();
 * 2023_06_25_115559_create_posts_table.php
 2023_06_25_143534_add_soft_deletes_in_posts_table.php
```

Task 2:

Create a new model named "Category" associated with the "categories" table. Define the necessary properties and relationships.

```
Http
  * ActionController.php
  Controller.php
 > Middleware
                                                             use HasFactory;
 🖛 Kernel.php
Models
                                                             protected $fillable = ['name'];
 Category.php
 🗫 Post.php
                                                             public function posts(){
 e User.php
                                                                 return $this->hasMany(Post::class);
> bootstrap
database
                                                             public function LatestPost()
> factories
                                                                  return $this->posts()->orderBy('id', 'desc')->first();
 2023_06_25_075858_create_categories_table.php
 * 2023_06_25_115559_create_posts_table.php
 2023_06_25_143534_add_soft_deletes_in_posts_table.php
```



Task 3:

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.

```
public function up(): void

    Controllers

                                                                     Schema::create('posts', function (Blueprint $table) {
                                                                         $table->id();
  Controller.php
                                                                         $table->string('name');
  > Middleware
                                                                         $table->text('description')->nullable();
                                                                        $table->timestamp('created_at')->useCurrent();

∨ Models

                                                                        $table->timestamp('updated_at')->useCurrent()->useCurrentOnUpdate();
$table->foreignId('category_id')->constrained('categories')
 Category.php
  R Post.php
                                                                              ->cascadeOnDelete()
 W User.php
                                                                             ->cascadeOnUpdate();
> bootstrap
> config
 > factories
 * 2023_06_25_075858_create_categories_table.php
                                                                public function down(): void
 2023_06_25_115559_create_posts_table.php
  2023_06_25_143534_add_soft_deletes_in_posts_table.php
                                                                     Schema::dropIfExists('posts');
```

Task 4:

Create a relationship between the "Post" and "Category" models. A post belongs to a category, and a category can have multiple posts.

```
    Controllers

  ActionController.php
                                                          class Category extends Model
  * Controller.php
 > Middleware
 Kernel.php

∨ Models

                                                               protected $fillable = ['name'];
 Category.php
 🗫 Post.php
 🖛 User.php
                                                                  return $this->hasMany(Post::class);
> Providers
> confia
database
                                                               public function LatestPost()
> factories
 migrations
                                                                    return $this->posts()->orderBy('id', 'desc')->first();
 2023_06_25_075858_create_categories_table.php
 * 2023_06_25_115559_create_posts_table.php
 2023_06_25_143534_add_soft_deletes_in_posts_table.php
```



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

```
10
     class ActionController extends Controller
     {
11
12
         0 references | 0 overrides
         public function postData()
13
14
              $postdata = Post::with('category')->get();
15
16
17
              return view('pages.home', compact('postdata'));
18
1 a
```

Task 6:

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.

```
public function categoryPost($id)

public function categoryPost($id)

{

public function categoryPost($id)

}

public function categoryPost($id)

{

public function categoryPost($id)

}

public function categoryPost($id)

{

public function categoryPost($id)

}

public function categoryPost($id)

{

public function categoryPost($id)

public function categoryPost($
```



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.

```
public function softDelete($id)

{
    $softDelete = Post::findOrFail($id)->delete();
    if ($softDelete) {
        return 'successfully soft deleted';
    } else {
        return 'failed to softdelete';
    }
}
```

Task 8:

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.

```
public function softData()

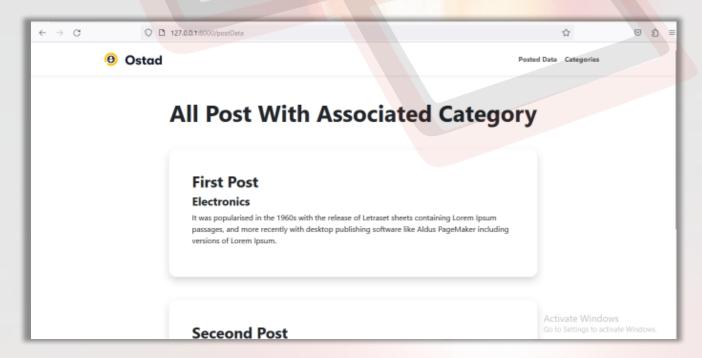
public function softData()

{
    $softData = Post::onlyTrashed()->get();
    return $softData;
}
```



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.

```
public function specificCatPost($id)

function specificCa
```

```
127.0.0.1:8000/categories/1/posts
                                                                                                                                                   110% 57
JSON Raw Data Headers
Save Copy Collapse All Expand All Filter JSON
   id:
                  "First Post"
  videscription: "It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing soft
                  including versions of Lorem Ipsum.\r\n
   created at:
                "2023-07-03T14:58:55.0000002"
                  "2023-07-03T14:58:55.000000Z"
   undated at:
   category_id: 1
   deleted_at:
                  null
   id:
                 "Seceond Post"
 w description: "It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing soft
                  including versions of Lorem Ipsum.
                "2023-07-03T14:58:55.000000Z"
                  "2023-07-03T15:34:04.000000Z"
   updated at:
   category_id:
   deleted_at:
```



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.

```
Route::get('/categories/{id}/latestpost', 'latestPost');
```



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.

