### Assignment\_18

#### Task 1:

Artisan command: php artisan make:migration create\_categories\_table

Migration file:

# Task 2: Artisan command: php artisan make:model Category

#### Model file:

```
class Category extends Model

frotected $table = 'categories'; // Specify the table name

protected $fillable = ['name', 'description']; // Define the fillable properties

// Define the relationships

public function posts()

return $this->hasMany( related: Post::class); // suppose u have a Post model

return $this->hasMany( related: Post::class); // suppose u have a Post model
```

Task 3:
Artisan Command: php artisan make:migration add\_category\_id\_to\_posts\_table --table=posts

Migration file:

## **Task 4:** Post belongsTo category:

A category can have multiple posts:

```
| Class Category extends Model
| Frotected $table = 'categories'; // Specify the table name
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description']; // Define the fillable properties
| Protected $fillable = ['name', 'description
```

#### Task 5:

#### Task 6:

Method in Post model to get the total number of posts belonging to a specific category. that should accept the category ID as a parameter and return the count:

#### Task 7:

```
Route:
```

```
Route::delete( uri: '/posts/{id}/delete', [PostController::class, 'delete'])->name( name: 'posts.delete');
```

#### Use SoftDeletes on Post model:

```
use HasFactory, SoftDeletes;
```

#### Method in controller:

#### Task 8:

Method for SoftDeletedPosts:

#### Task 9:

Posts.blade.php file:

#### **Task 10:**

#### Route:

```
Route::get( uri: '/categories/{id}/posts', [CategoryController::class, 'getPosts'])->name( name: 'categories.posts');
```

#### Controller:

#### **Task 11:**

Method in Category Model:

```
public function latestPost()

{

return $this->hasOne( related: Post::class)->latest();
}
```

#### Route:

#### **Task 12:**

#### Blade File:

```
Category.php × PostController.php × Post.php × Posts.blade.php × LatestPosts.blade.php ×

Rextends ('App')

Restands ('A
```

#### Controller Method:

```
public function index()

{

$categories = Category::vith('latestPost')->get();

return view( view: 'latest_posts', compact( varname: 'categories'));
}

return view( view: 'latest_posts', compact( varname: 'categories'));
}
```