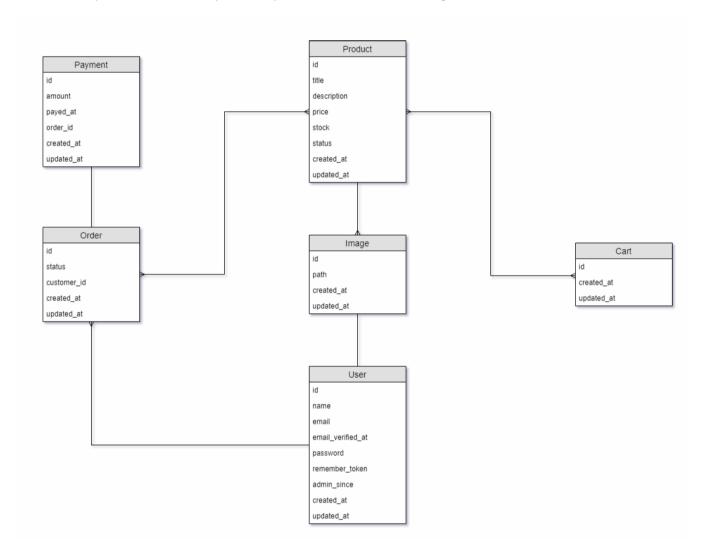
61. Conoce las relaciones polimórficas uno a muchos

Definición

Un Product puede tener múltiples Image, como vemos en el diagrama:



✓ Al tener ya preparado el método imageable() en Image es mucho más rápido implementarla.

Relaciones polimórficas 1:n en el proyecto

 $Image \leftrightarrow Product.$

Laravel: crear las relaciones

En Product:

```
public function images() {
    // Importante indicar el nombre de la relación polimórfica
    return $this→morphMany(Image::class, 'imageable');
}
```

Tinker: probar las relaciones

```
C:\Users\llemi\Desktop\Lunk\Laravel\ola>php artisan tinker
Psy Shell v0.11.8 (PHP 8.0.9 - cli) by Justin Hileman
// Obtenemos el producto con id=2 de la lista de products
  $product = App\Models\Product::find(2)
 App\Models\Product {#4558
     id: "2"
     title: "In iusto aspernatur porro.",
     description: "Perspiciatis iusto deserunt qui deleniti velit. Sequi quia debitis
explicabo voluptas.",
     price: "80.74",
     stock: "8",
     status: "available",
     created_at: "2022-11-12 11:15:27",
     updated_at: "2022-11-12 11:15:27",
// Le asignamos una imagen mediante el método morphMany()
// de Product→images()
   $product→images()→save(App\Models\Image::factory()→make())
   App\Models\Image {#4595
     path: "img/products/8.jpg",
     imageable_id: 2,
     imageable_type: "App\Models\Product",
updated_at: "2022-11-12 12:27:00",
     created_at: "2022-11-12 12:27:00",
     id: 2,
// Buscamos la imagen con ese id (fijémonos en el imageable_type)
   $image = App\Models\Image::find(2)
 App\Models\Image {#4561
     id: "2"
     path: "img/products/8.jpg",
     created_at: "2022-11-12 12:27:00",
     updated_at: "2022-11-12 12:27:00",
     imageable_type: "App\Models\Product",
     imageable_id: "2",
// Imageable sabe, por el imageable_type = Product y el imageable_id,
// que debe mostrar el Product con id = 2
  > $image→imageable
→ App\Models\Product {#4587
     id: "2",
     title: "In iusto aspernatur porro.",
     description: "Perspiciatis iusto deserunt qui deleniti velit. Sequi quia debitis
explicabo voluptas.",
     price: "80.74",
     stock: "8",
     status: "available",
     created at: "2022-11-12 11:15:27",
     updated_at: "2022-11-12 11:15:27'
```

Creamos una nueva Image, la asignamos y comprobamos que, efectivamente, un Product puede contener muchas.

```
$product→images()→save(App\Models\Image::factory()→make())
   App\Models\Image {#4601
     path: "img/products/5.jpg",
     imageable_id: 2,
     imageable_type: "App\Models\Product",
updated_at: "2022-11-12 12:34:29",
     created_at: "2022-11-12 12:34:29",
     id: 3,
>>> $product = $product \rightarrow fresh()
 → App\Models\Product {#4550
     id: "2"
     title: "In iusto aspernatur porro.",
     description: "Perspiciatis iusto deserunt qui deleniti velit. Sequi quia debitis
explicabo voluptas.",
     price: "80.74",
     stock: "8",
     status: "available",
     created at: "2022-11-12 11:15:27",
     updated_at: "2022-11-12 11:15:27",
>>> $product -> images
⇒ Illuminate\Database\Eloquent\Collection {#4565
     all: [
       App\Models\Image {#4564
         id: "2",
         path: "img/products/8.jpg",
         created_at: "2022-11-12 12:27:00", updated_at: "2022-11-12 12:27:00",
         imageable_type: "App\Models\Product",
         imageable id: "2",
       App\Models\Image {#4590
         id: "3",
         path: "img/products/5.jpg",
         created_at: "2022-11-12 12:34:29",
         updated_at: "2022-11-12 12:34:29",
         imageable_type: "App\Models\Product",
         imageable_id: "2",
       },
```