## **CQRS**

CQRS is one of the most overcomplicated and misunderstood aspects of DDD, in my opinion, so let's clarify it! It means Command and Query Responsibility Segregation. It's a complicated name; let's see what those words mean:

- A command is a write operation such as creating a new product.
- A query is a read operation such as getting all products.
- Responsibility segregation means we need to separate these two types of functions.

So this simple class does not satisfy CQRS:

```
class ProductService
{
   public function create(ProductData $data): Product
   {
       // ...
   }

   public function getAll(): Collection
   {
       // ...
   }
}
```

I don't think there is anything wrong with this class; in fact, it can be the superior solution in many projects.

So how do we apply CQRS? If you think about the previous sections, we have similar concepts to commands and queries. The only difference is the name:

- Actions play the role of a command or a write operation.
- ViewModels play the role of a query or a read operation.