States And Transitions

A State is a class that represents the state of something. That something, in most cases, is an Eloquent model. So instead of a string, we have a dedicated class. What does a State class look like? Let's say we are working on an e-commerce application, so we have an Order class. An Order has a status like:

- Draft
- Pending
- Paid
- PaymentFailed

For the sake of simplicity, let's say the most critical business logic about the Order's state is whether it can be changed or not. A customer can modify a draft Order but cannot modify a Paid order.

First, let's create an abstract class:

```php
abstract class OrderStatus
{
  public function __construct(protected Order $order)
  {
  }


  abstract public function canBeChanged(): bool;
}
```

Each state extends the OrderStatus parent class. Now we can create these concrete classes: