

Solución Desafío - Usando un controlador

Descripción

Recordando el Desafío I, dado el siguiente controlador, refactorizar el código, de tal forma que la lógica de negocio pase al modelo correspondiente.

```
class CartsController < ApplicationController</pre>
before_action :authenticate_user!
def update
  product = params[:cart][:product_id]
  quantity = params[:cart][:quantity]
  current_order.add_product(product, quantity)
  redirect_to root_url, notice: "Product added successfuly"
end
def show
  @order = current_order
end
def pay with paypal
  order = Order.find(params[:cart][:order_id])
  #price must be in cents
   price = order.total * 100
   response = EXPRESS GATEWAY.setup purchase(price,
     ip: request.remote_ip,
     return_url: process_paypal_payment_cart_url,
     cancel_return_url: root_url,
     allow_guest_checkout: true,
     currency: "USD"
  )
   payment_method = PaymentMethod.find_by(code: "PEC")
   Payment.create(
     order_id: order.id,
```

```
payment_method_id: payment_method.id,
    state: "processing",
    total: order.total,
    token: response.token
 )
  redirect_to EXPRESS_GATEWAY.redirect_url_for(response.token)
end
def process_paypal_payment
  details = EXPRESS GATEWAY.details for(params[:token])
   express_purchase_options =
   {
       ip: request.remote_ip,
      token: params[:token],
       payer id: details.payer id,
       currency: "USD"
   }
   price = details.params["order_total"].to_d * 100
  response = EXPRESS_GATEWAY.purchase(price, express_purchase_options)
  if response.success?
    payment = Payment.find_by(token: response.token)
    order = payment.order
    #update object states
     payment.state = "completed"
    order.state = "completed"
    ActiveRecord::Base.transaction do
       order.save!
       payment.save!
    end
  end
end
end
```



Asumir

• current_order siempre entrega una Order válida.

Requerimientos

- 1. Implementar los tests unitarios para los modelos.
- 2. Mover el código desde el controlador hacia los modelos.
- 3. Refactorizar el código.

Al finalizar

1. Cada método debe cumplir con el principio de Single Responsibility, incluso en el controlador. Modificar los métodos que sean necesarios.

Solución

1. Aplicando los tests:

```
class OrderTest < ActiveSupport::TestCase

test 'pass total price to cents' do
user = User.create(email: "user@example.com", password: "12345678")
    order = Order.create(user_id: user.id, total: 100)
    assert_equal order.total_in_cents, 10000
end

test 'order creates a payment' do
    user = User.create(email: "user@example.com", password: "12345678")
    order = Order.create(user_id: user.id, total: 100)
    PaymentMethod.create(name: "Paypal Express Checkout", code: "PEC")

    order.create_payment("PEC", "token_00112233")
    assert_equal order.payments.count, 1
    end

test 'new payment have processing state' do
    user = User.create(email: "user@example.com", password: "12345678")</pre>
```



```
order = Order.create(user_id: user.id, total: 100)
PaymentMethod.create(name: "Paypal Express Checkout", code: "PEC")

order.create_payment("PEC", "token_00112233")

assert_equal order.payments.last.state, "processing"
end

test 'order is marked as completed' do
    user = User.create(email: "user@example.com", password: "12345678")
    order = Order.create(user_id: user.id, total: 100)
    order.complete!
    assert_equal order.state, "completed"
end
end
```

```
class PaymentTest < ActiveSupport::TestCase</pre>
test 'payment is marked as completed' do
  user = User.create(email: "user@example.com", password: "12345678")
  order = Order.create(user id: user.id, total: 100)
  pm = PaymentMethod.create(name: "Paypal Express Checkout", code:
"PEC")
   payment = Payment.create(order_id: order.id, payment_method_id:
pm.id, state: "processing")
   payment.complete!
  assert_equal payment.state, "completed"
end
test 'complete payments' do
  user = User.create(email: "user@example.com", password: "12345678")
  order = Order.create(user_id: user.id, total: 100)
  pm = PaymentMethod.create(name: "Paypal Express Checkout", code:
"PEC")
   payment = Payment.create(order_id: order.id, payment_method_id:
pm.id, state: "processing")
```



```
payment.close!

assert_equal payment.state, "completed"
assert_equal payment.order.state, "completed"
end
end
```

2. Implementación de código en los modelos:

```
class Order < ApplicationRecord</pre>
#...
def total_in_cents
  total * 100
end
def create_payment(pm_code, token)
   payments << Payment.create(</pre>
     payment_method_id: PaymentMethod.find_by(code: pm_code).id,
     state: "processing",
    total: total,
    token: token
 )
end
def complete!
   update_attributes({state: "completed"})
end
end
```

```
class Payment < ApplicationRecord
belongs_to :order
belongs_to :payment_method

def complete!
   update_attributes({state: "completed"})
end

def close!
   ActiveRecord::Base.transaction do</pre>
```



```
complete!
  order.complete!
  end
end
end
```

La implementación de cada método en el modelo ya está optimizada, pero podría darse el caso que se necesite refactorizar según el caso por cada alumno.

3. El controlador, refactorizado queda de la siguiente manera:

```
class CartsController < ApplicationController</pre>
 before action :authenticate user!
before_action :get_order, only: [:pay_with_paypal]
def update
   product = params[:cart][:product_id]
  quantity = params[:cart][:quantity]
  current_order.add_product(product, quantity)
  redirect_to root_url, notice: "Product added successfuly"
end
def show
  @order = current_order
end
def pay_with_paypal
  response = EXPRESS_GATEWAY.setup_purchase(@order.total_cents,
    ip: request.remote_ip,
    return_url: process_paypal_payment_cart_url,
    cancel_return_url: root_url,
    allow_guest_checkout: true,
    currency: "USD"
  @order.create_payment("PEC", response.token)
  redirect_to EXPRESS_GATEWAY.redirect_url_for(response.token)
end
```

```
def process_paypal_payment
  @details = EXPRESS_GATEWAY.details_for(params[:token])
  response = EXPRESS_GATEWAY.purchase(processed_price,
express_purchase_options)
  if response.success?
    payment = Payment.find_by(token: response.token)
    payment.close!
  end
end
def express_purchase_options
    ip: request.remote_ip,
    token: params[:token],
    payer_id: @details.payer_id,
    currency: "USD"
 }
end
def processed_price
  @details.params["order_total"].to_d * 100
end
def get_order
  @order = Order.find(params[:cart][:order_id])
end
end
```