## Modificación Patrón Decorator

## Objetivo

Crear un nuevo decorador que agregue el pie de página con la información de la empresa que envía el correo electrónico

## Resolución

A continuación, se detallarán los pasos realizados para completar el objetivo de la tarea

i. Crear el contenedor de datos "FooterMessage" el cual contendrá los datos del correo y pie de página

```
public class FooterMessage implements IMessage {
 private CustomerMessage customerMessage;
 private String companyName;
 private String companyAddress;
 private String companyTelephone;
 private String companyEmail;
  public FooterMessage (CustomerMessage customer, String name, String address, String phone, String email) {
   this.customerMessage = customer;
   this.companyName = name;
   this.companyAddress = address;
   this.companyTelephone = phone;
   this.companyEmail = email;
  @Override
 public IMessage processMessage() { return this; }
  @Override
 public String toString() {
   return customerMessage.toString() + "\n FooterMessage{" + "companyName=" + companyName +
        ", companyAddress=" + companyAddress + ", companyTelephone=" + companyTelephone +
        ", companyEmail=" + companyEmail + '}';
  @Override
  public void setContent(String content) {
   throw new UnsupportedOperationException("Not supported yet.");
  @Override
  public String getContent() { return toString(); }
 public String getCompanyName() { return companyName; }
 public void setCompanyName(String companyName) { this.companyName = companyName; }
 public String getCompanyAddress() { return companyAddress; }
 public void setCompanyAddress(String companyAddress) { this.companyAddress = companyAddress; }
 public String getCompanyTelephone() { return companyTelephone; }
 public\ void\ set Company Telephone (String\ company Telephone)\ \{\ this. company Telephone = company Telephone;\ \}
  public String getCompanyEmail() { return companyEmail; }
  public void setCompanyEmail(String companyEmail) { this.companyEmail = companyEmail; }
 public CustomerMessage getCustomerMessage() { return customerMessage; }
 public void setCustomerMessage(CustomerMessage customerMessage) { this.customerMessage
customerMessage; }
```

ii. Crear el decorador llamado "FooterDecorator" contendrá el mensaje con la actualización requerida

```
public class FooterDecorator extends MessageDecorator {
   public FooterDecorator(IMessage message) {
        super(message);
   }

@Override
   public IMessage processMessage() {
        message = message.processMessage();
        message = obtenerMessage();
        return message;
   }

   public IMessage obtenerMessage() {
        return message;
   }
}
```

iii. Actualización del DecoratorMain, para utilizar el nuevo decorador creado

```
public class DecoratorMain {
 public static void main(String[] args) {
   CustomerMessage customerMessage = new CustomerMessage(
       "Oscar Blancarte", "oscarblancarte3@gmail.com", "554433445566");
   System.out.println("Original Message ==> " + customerMessage);
   FooterMessage footerMessage = new FooterMessage(
       customerMessage, "Nombre", "Direccion", "Telefono", "Email");
   System.out.println("Original + Footer Message ==> " + footerMessage);
   IMessage message1 = new EncryptMessage("user", "HG58YZ3CR9123456",
       new SOAPEnvelopMessage(
         new XMLFormatterDecorate(
            new FooterDecorator(footerMessage) ) ) ).processMessage();
   System.out.println("message1 =======>\n"
       + message1.getContent() + "\n\n");
   IMessage message2 = new SOAPEnvelopMessage(
       new EncryptMessage("user", "HG58YZ3CR9123456",
         new XMLFormatterDecorate(
            new FooterDecorator(footerMessage)
) ) ).processMessage();
   System.out.println("message2 =======>\n"
       + message2.getContent());
   IMessage message3 = new XMLFormatterDecorate(
        new FooterDecorator(footerMessage) ).processMessage();
   System.out.println("message3 =========>\n"
       + message3.getContent());
```

## Resultado

Finalmente tenemos el siguiente resultado con los cambios realizado:

```
Original Message ==> CustomerMessage{name=Oscar Blancarte,
email=oscarblancarte3@gmail.com, telephone=554433445566}
Original + Footer Message ==> CustomerMessage{name=Oscar Blancarte,
email=oscarblancarte3@gmail.com, telephone=554433445566}
Footer Message \{ company Name=Nombre, company Address=Direction, company Telephone=Telefono, company Email=Email\} \} the properties of th
message1 =========>>
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DyXp/oEjrHmYPjkZ+0JJ1wAeGK8Xw6z89I/P+1fClOgoJC7EoSQot3upYxg8f1W97fjB+syo1HLb
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  <soapenv:Header/>
  <soapeny:Body>
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EPvdKIQ4tzf81r7cFgXjGM0YQuCVHypRSA==
  </soapenv:Body>
</soapenv:Envelope>
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<oscarblancarte.ipd.decorator.impl.message.FooterMessage>
  <companyAddress>Direction</companyAddress>
  <companyEmail>Email</companyEmail>
  <companyName>Nombre</companyName>
  <companyTelephone>Telefono</companyTelephone>
  <content>CustomerMessage{name=Oscar Blancarte,
email=oscarblancarte3@gmail.com, telephone=554433445566}
FooterMessage{companyName=Nombre, companyAddress=Direccion, companyTelephone=Telefono,
companyEmail=Email}</content>
  <customerMessage>
      <content>CustomerMessage{name=Oscar Blancarte,
```

```
Navigator
          Decorator (run) X
                                  Patrones - D:\ABUESTAN\Documents\EXXIS DOCUMENTOS\Mios\UPS\M03 - Patrones de diseño de software\Git\Patrones\Patrones
    =
             Original Message ==> CustomerMessage{name=Oscar Blancarte
®
             email=oscarblancarte3@gmail.com, telephone=554433445566}
    <u>0</u>%
            Original + Footer Message ==> CustomerMessage (name=0scaremail=oscarblancarte3@gmail.com, telephone=554433445566)
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            xmlns:ser="http://service.dishweb.cl.com/">
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<companyEmail>Email</companyEmail>
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oscarblancarte3@gmail.com, telephone=55443:
                                                                     e=554433445566}
              FooterMessage{companyName=Nombre, companyAddress=Direction, companyTelephone=Telefono, companyEmail=Email}</content>
<customerMessage>
                       <content>CustomerMessage{name=Oscar Blancarte
             email=oscarblancarte3@gmail.com, telephone=554433445566}</content>
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             BUILD SUCCESSFUL (total time: 0 seconds)
     5 Output
```