

## **Actividad PostContenido 1 - Unidad 1**

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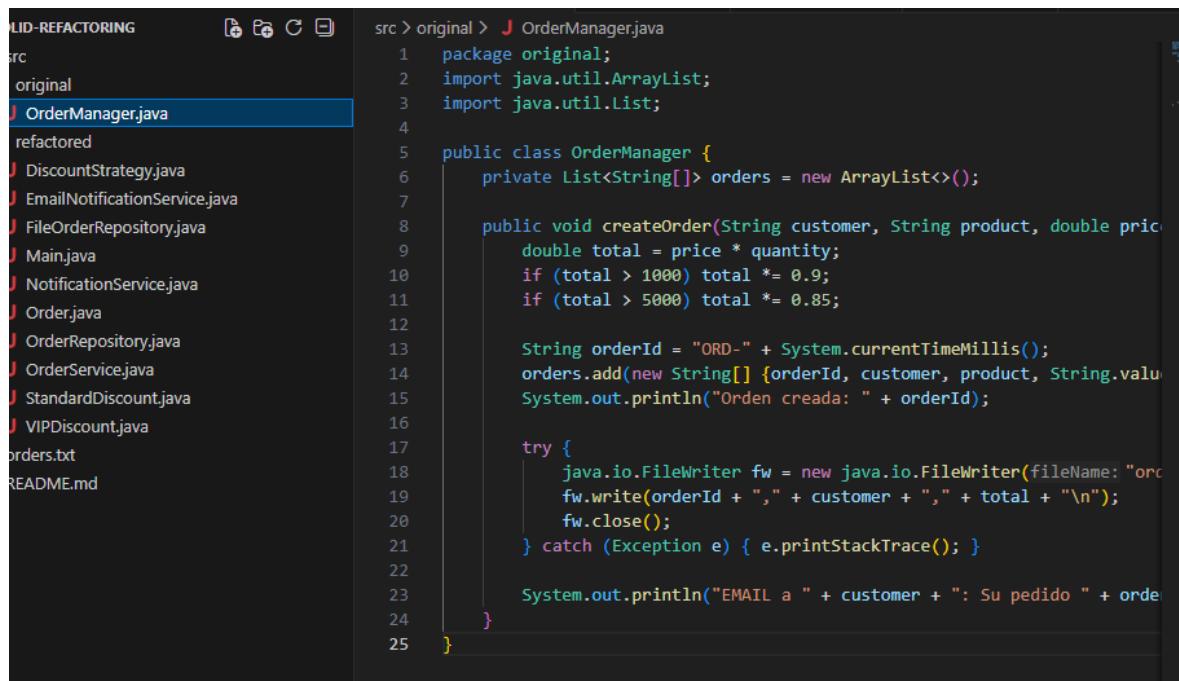
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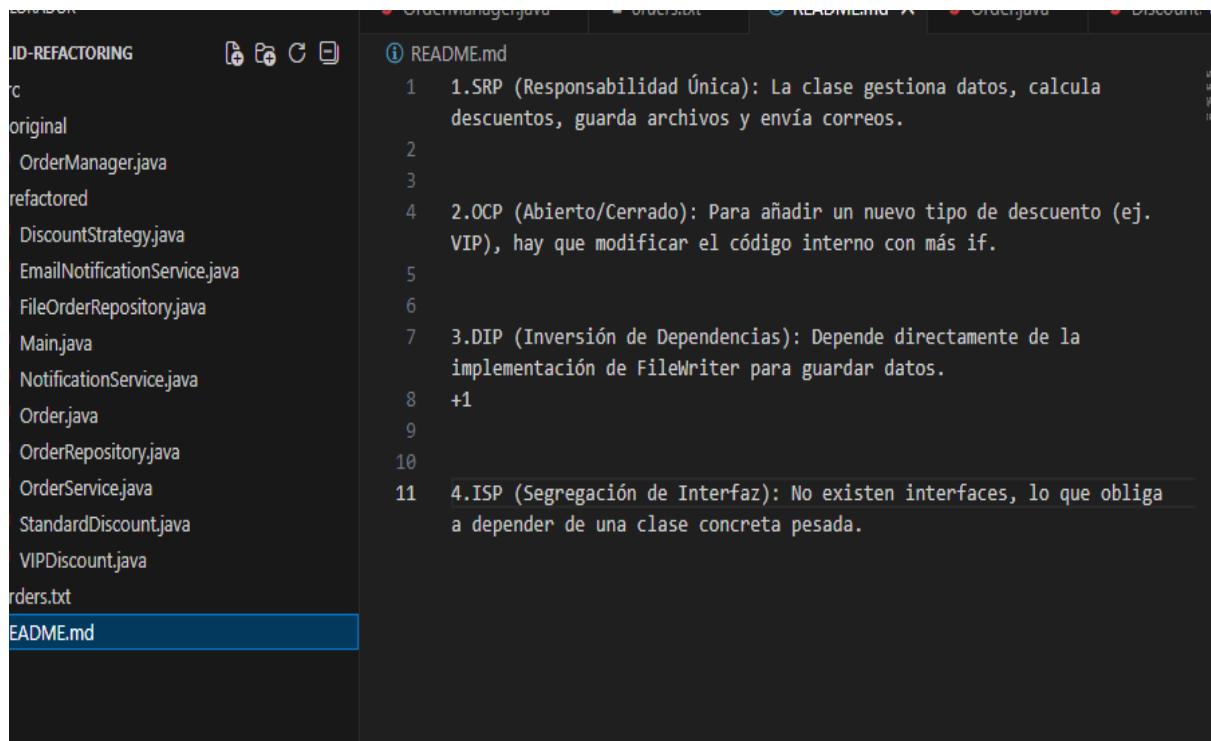
## Capture 1: Cap de la Estructura del Proyecto



```
LID-REFACTORING
src
original
J OrderManager.java
refactored
J DiscountStrategy.java
J EmailNotificationService.java
J FileOrderRepository.java
J Main.java
J NotificationService.java
J Order.java
J OrderRepository.java
J OrderService.java
J StandardDiscount.java
J VIPDiscount.java
orders.txt
README.md

src > original > J OrderManager.java
1 package original;
2 import java.util.ArrayList;
3 import java.util.List;
4
5 public class OrderManager {
6     private List<String[]> orders = new ArrayList<>();
7
8     public void createOrder(String customer, String product, double price,
9         double quantity) {
10        double total = price * quantity;
11        if (total > 1000) total *= 0.9;
12        if (total > 5000) total *= 0.85;
13
14        String orderId = "ORD-" + System.currentTimeMillis();
15        orders.add(new String[] {orderId, customer, product, String.valueOf(total)});
16        System.out.println("Orden creada: " + orderId);
17
18        try {
19            java.io.FileWriter fw = new java.io.FileWriter(fileName: "orders.txt");
20            fw.write(orderId + "," + customer + "," + total + "\n");
21            fw.close();
22        } catch (Exception e) { e.printStackTrace(); }
23
24    }
25 }
```

## Cap 2 del Análisis SOLID (README.md)



```
① README.md
1 1.SRP (Responsabilidad Única): La clase gestiona datos, calcula
2 descuentos, guarda archivos y envía correos.
3
4 2.OCP (Abierto/Cerrado): Para añadir un nuevo tipo de descuento (ej.
5 VIP), hay que modificar el código interno con más if.
6
7 3.DIP (Inversión de Dependencias): Depende directamente de la
8 implementación de FileWriter para guardar datos.
9
10 4.ISP (Segregación de Interfaz): No existen interfaces, lo que obliga
11 a depender de una clase concreta pesada.
```

### **3. Cap de Compilación (Sin errores)**

The screenshot shows a Java IDE interface with several files listed on the left and a code editor on the right. The code editor displays the refactored `OrderService.java` file. The terminal window at the bottom shows the execution of the application, including the creation of two orders and a success message.

```
src > refactored > J OrderService.java > OrderService
  1 package refactored;
  2
  3 public class OrderService {
  4     private final OrderRepository repository;
  5     private final NotificationService notifier;
  6     private final DiscountStrategy discountStrategy;
  7
  8     public OrderService(OrderRepository repository, NotificationService
  9                         this.repository = repository;
 10                         this.notifier = notifier;
 11                         ...
 12
 13     void placeOrder(Order order) {
 14         repository.save(order);
 15         notifier.notify(order);
 16         discountStrategy.apply(discount);
 17     }
 18 }
```

PROBLEMAS	SALIDA	TERMINAL	...
			Debug: Main + ▾ 🗑️ ⌂ ⌂ ⌂ ⌂ ⌂ ⌂

```
PS C:\Users\USUARIO\Desktop\solid-refactoring> & 'C:\Program Files\Eclipse Adoptium\jdk-25.0.2.1-0-hotspot\bin\java.exe' '-agentlib:jdwp=transport=dt_socket,server=n,suspend=y,address=localhost:57139' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\USUARIO\AppData\Roaming\Code\User\workspaceStorage\ee31a372e7e5e0f652d5b2963f71ddf9b\redhat.java\jdt_ws\solid-refactoring_f66a480b\bin' 'refactored.Main'
EMAIL a Mauricio: Su pedido ORD-1771730706253 ha sido creado.
EMAIL a Andrés: Su pedido ORD-1771730706310 ha sido creado.

--- Proceso Finalizado con Éxito ---
Total de pedidos guardados: 2
PS C:\Users\USUARIO\Desktop\solid-refactoring> []
```

## CAP 4: El Archivo de Datos

The screenshot shows a Java development environment with the following layout:

- EXPLORADOR**: Shows a tree view of the project structure under **SOLID-REFACTORING**, including **src**, **original**, and **refactored** packages, each containing various Java files.
- ...** : A button for more options.
- orders.txt**: The active tab in the code editor, displaying the following content:

```
1 ORD-1771730706253,Mauricio,2250.0
2 ORD-1771730706310,Andrés,800.0
3 ORD-1771731705510,Mauricio,2250.0
4 ORD-1771731705552,Andrés,800.0
5
```

