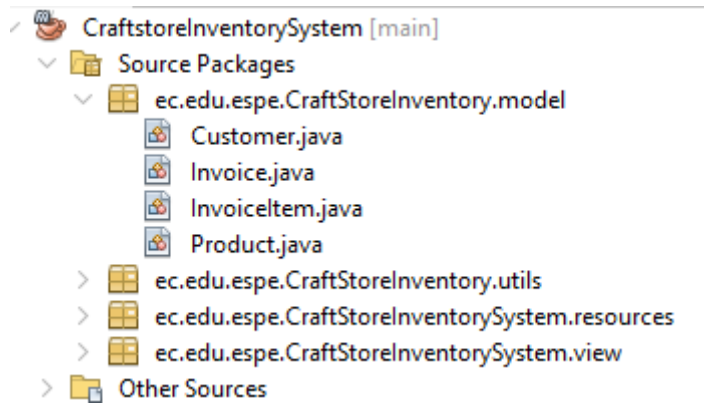


**Alfonso Arroyo**

## **HW21 - Find pitfalls**

### **1.- Package Controller doesn't exists**



#### **Explanation:**

The controller package has been eliminated in one of the commits

#### **Possible solution:**

Create a new controller package

### **2.- Spanish named method**

```
private boolean validaciónCedula(String cedula) {  
    if (cedula.length() != 10) {  
        return false;  
    }  
}
```

#### **Explanation:**

The name of the method should be in English

#### **Possible solution:**

Change the name

### 3. –Method in wrong package

```
private boolean IdentityCardValidation(String cedula) {  
    if (cedula.length() !=10){  
        return false;  
    }  
  
    int provincia = Integer.parseInt(cedula.substring(0,2));  
    if (provincia < 1 || provincia > 24) {  
        return false;  
    }  
  
    int tercerDigito = Integer.parseInt(cedula.substring(2, 3));  
    if (tercerDigito < 0 || tercerDigito > 6) {  
        return false;  
    }  
  
    int suma = 0;  
    int[] coeficientes = {2, 1, 2, 1, 2, 1, 2, 1, 2};  
    for (int i = 0; i < 9; i++) {  
        int digito = Integer.parseInt(cedula.substring(i, i + 1));  
        int producto = digito * coeficientes[i];  
        suma += (producto > 9) ? producto - 9 : producto;  
    }  
  
    int ultimoDigito = Integer.parseInt(cedula.substring(9, 10));  
    int decenaSuperior = ((suma + 9) / 10) * 10;  
    int digitoVerificador = decenaSuperior - suma;  
  
    return digitoVerificador == ultimoDigito;  
}
```

#### Explanation:

The method is in the wrong package and class

#### Possible solution:

Move the method to the correct class and package and do de call instead.

### 4. –Create a method in the controller

```
Customer customer = new Customer(id, name, address, email, phone);  
cloudDB.uploadCustomerData(customer);  
JOptionPane.showMessageDialog(this, "Customer added successfully!");
```

#### Explanation:

The code should be in the controller package and be a method in the customer Controller class

#### Possible solution:

Move the code and do the call instead