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HW21 - Find pitfalls

1.- Package Controller doesn't exists

```
CraftstoreInventorySystem [main]
    Source Packages
        ec.edu.espe.CraftStoreInventory.model
            Customer.java
            Invoice.java
            InvoiceItem.java
            Product.java
        ec.edu.espe.CraftStoreInventory.utils
        ec.edu.espe.CraftStoreInventorySystem.resources
        ec.edu.espe.CraftStoreInventorySystem.view
    Other Sources
```
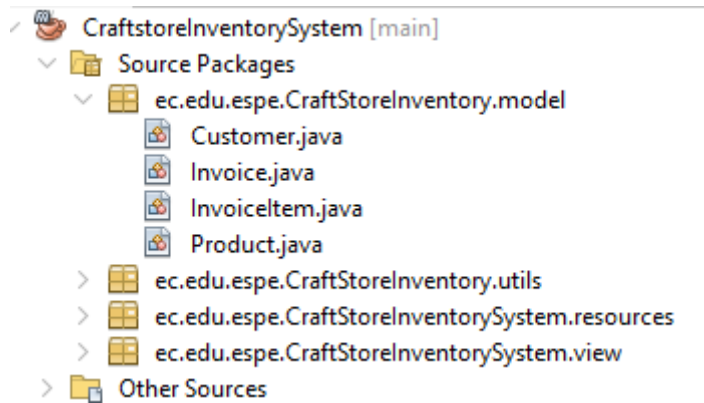
Explanation:

The controller package has been eliminated in one of the commits

Possible solution:

Create a new controller package

2.- Spanish named method

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

Explanation:

The name of de method should be in English

Possible solution:

Change the name

3. –Method in wrong package

```java
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

```java
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