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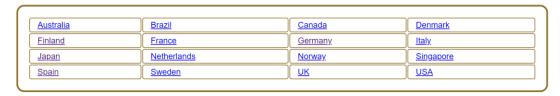
Asignatura / *Gaia:* **Software Engineering**   Curso / *Kurtsoa:* **3º**

Nombre / *Izena:*   Fecha / *Data:* **10/03/2020**

EXERCISE 1 (4 POINTS)

In the folder Q:\Ing Soft, you will find the *Countries.html* file. This file shows the countries where the company has suppliers.

Countries

Australia	Brazil	Canada	Denmark
Finland	France	Germany	Italy
Japan	Netherlands	Norway	Singapore
Spain	Sweden	UK	USA

In this exercise, you have to develop a Servlet named *SupplierList* that lists in a table all the suppliers of the selected country. For each supplier, you should show the SupplierId, ContactName and City.

```
public  static  Vector<SupplierData>  getSuppliersList(Connection  connection,
String pais)
```

where the *pais* parameter refers to the selected *country*, and the result will be a vector containing the list of suppliers.

This servlet will receive a parameter called *country* from the html file so **you should also modify the Countries.html file to send that information to the servlet.**

In addition, you have to add the following title below the menu: "Suppliers from **country name**". The line "Developed by **your name**" should also appear under the title.

The first row of the table will include the following fields' names: Id, Contact name and City.

For instance, if you select Germany, you should show the following table.

localhost:8080/northbrick3Test2/SupplierList?country=Germany

Home   Products   Last product   Orders   Last order   Category 45

Suppliers from Germany

Developed by Josune

ID	Contact Name	City
11	Petra Winkler	Berlin
12	Martin Bein	Frankfurt
13	Sven Petersen	Cuxhaven

Check the sections you have done:

☐ *The solution shows the name of the Country in the title and your name in the next line (0,5 points)*

☐ *The solution shows the list of fields in the first row of the table (0,5 points)*

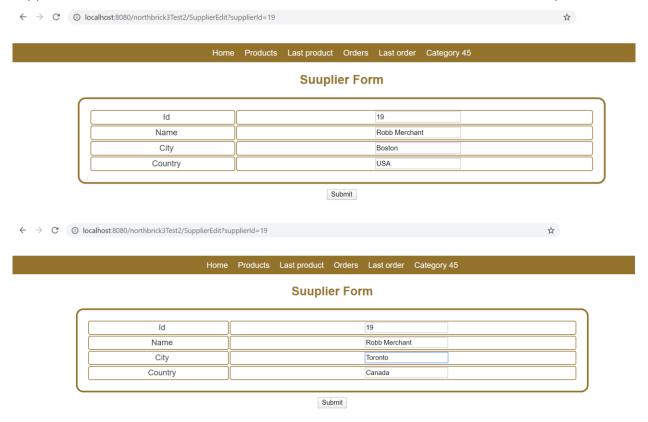☐ *The html file sends the country field to the servlet (0,5 points)*

☐ *The solution shows the list of Suppliers from the selected Country (2,5 points)*

EXERCISE 2 (3,5 POINTS)

In the table that contains the list of suppliers from a specific country (obtained in exercise 1), you should include a new column that allows to edit the information of each supplier.
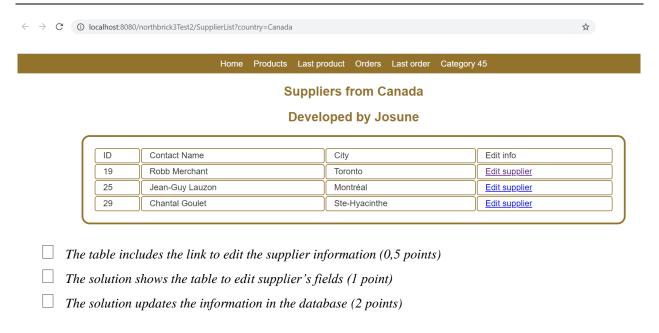

When you click on Edit supplier link, you will show the following table where you can change the supplier's info. The submit button will send the information to the database to be updated.
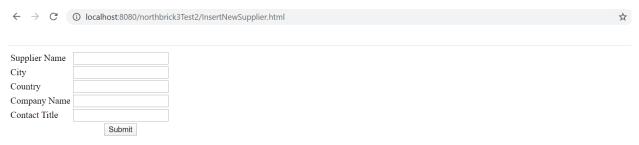

Just to check if the info has been updated, you can use the following line to go back to the list of countries and select the country where you have added the supplier.

```
res.sendRedirect("Countries.html");
```

- ☐ *The table includes the link to edit the supplier information (0,5 points)*
- ☐ *The solution shows the table to edit supplier's fields (1 point)*
- ☐ *The solution updates the information in the database (2 points)*
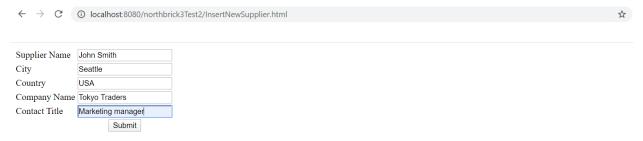
EXERCISE 3 (2,5 POINTS)

As manager of the company, you want to add new suppliers to the database. To do so, you should develop a html file called *InsertNewSupplier.html*, where you can enter this information and send it clicking on Submit button.
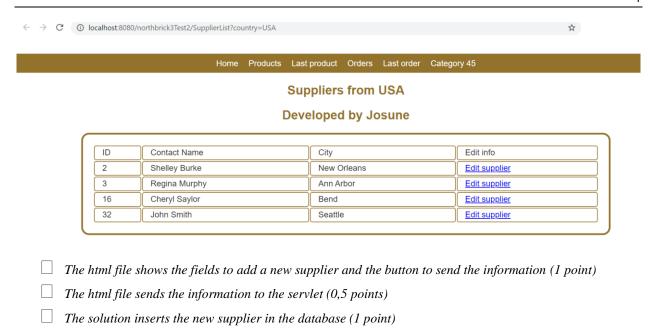

You have to develop a new servlet, called **InsertSupplier**, that reads the fields from *InsertNewSupplier.html* and creates a new Supplier in the database. Take into account that the *SupplierId* is an autonumber field in the database. Once you have inserted this new supplier, you can redirect the application to Countries.html file using the following instruction:

```
res.sendRedirect("Countries.html");
```

You can see if the insertion works selecting in the list of countries the country where you have added the supplier.

☐ *The html file shows the fields to add a new supplier and the button to send the information (1 point)*

☐ *The html file sends the information to the servlet (0,5 points)*

☐ *The solution inserts the new supplier in the database (1 point)*

BONUS (1 POINT)

In the exam folder, you will find two files called: *basicJDBCHacked* and *basicJDBCHacked2*. You have to execute both files and see the difference using the following sentence as parameter:
Example to execute the *basicJDBCHacked* file. You should do the same with the second file.

```
java basicJDBCHacked "Nancy or 1=1 or "''='"
```

What is happening?