



Asignatura / Gaia

Software Engineering

Curso / Kurtsoa

3º

Nombre / Izena

Fecha / Data

24-05-2022

The files to solve this exam are in:

<https://github.com/nicolasserrano/CS/tree/master/webapps/northbrick3>

Copy them to a SE2022_05_24 folder in your webapps folder of Tomcat.

Once you finish the exam, you should zip the exam folder in a SE2022_05_24.zip file, that will be read by the Faronics system and you should upload it to ADI into the “SE2022_05_24 Final exam” activity.

The images of the flags are at the following address:

<http://www.nicolasserrano.com/CS/webapps/auxiliary/CountryFlags/filename>

Where the *filename* is composed of “flag-” and the name of the country in lower case (use the function `toLowerCase()` of `String`).



For example:

<http://www.nicolasserrano.com/CS/webapps/auxiliary/CountryFlags/flag-norway.jpg>

The image of a Supplier is obtained with the following link:

<http://picsum.photos/seed/{SupplierId}/128/64>

Where you replace {SupplierId} for the ID of the customer. For example, for the supplier with SupplierId = 9, the address will be:

<http://picsum.photos/seed/9/128/64>



Exercise 1 (5 points)

Develop a Servlet named **SuppliersList** that lists all the suppliers returned by the `getSupplierList()` function in the `SupplierDatabase` class.

The list is ordered by Country and SupplierId.

Previous to the first supplier of a country you must include a row containing: "Suppliers from COUNTRY_NAME". (Replace COUNTRY_NAME with the name of the country) and the flag of the country. The format of the figure is obtained with cells of type "TH", instead of "TD".

Each suppliers must be in a row of the table with the following fields: an image, SupplierID, Company Name, City and Postal code. The Postal code should be inside an `` element.

The format should be similar to the one shown in the image.

The process for obtaining the images is explained on the previous page.

Suppliers List				
Suppliers from Australia				
	7	Pavlova, Ltd.	Melbourne	3058
	24	G'day, Mate	Sydney	2042
Suppliers from Brazil				
	10	Refrescos Americanas LTDA	São Paulo	5442
Suppliers from Canada				
	25	Ma Maison	Montréal	H1J 1C3
	29	Forêts d'érables	Ste-Hyacinthe	J2S 7S8
Suppliers from Denmark				
	21	Lyngbysild	Lyngby	2800
Suppliers from Finland				
	23	Korhonen Oy	Lappeenranta	52120

Mark the sections you have done:

- ☐ The solution is in the folder SE2022_05_24 and compressed in the SE2022_04_24.zip file (1 point)
- ☐ The solution shows the list of suppliers with the specified fields (2 points)
- ☐ The solution shows the countries with the format of the image. (1 point)
- ☐ The solution shows the images of the flags and suppliers (1.0 point)

Exercise 2 (4 points)

In the ADI activity of the exam, you will find the **SuppliersListJS.html** and the **suppliers.js** files. The SuppliersListJS.htm file includes the file named *suppliers.js*. Currently this file only shows an alert. You should modify the *suppliers.js* file to add a button next to the postal code fields with the caption “Edit” (see A in figure).

When the user clicks the “Edit” button, the span tag with the postal code will include an input field with the previous value of the postal code and the name of the button will change to “Modify” (see B in figure). When the user changes the postal code and clicks on the Modify button, an alert will be displayed with the old and new postal code (see C in figure).

Note: the button can be implemented with a button element.

```
<button onclick='functionName(arguments)'+>Edit</button>
```

Mark the sections you have done:

- ☐ The solution shows the Edit button in one of the suppliers (1 point)
- ☐ The solution shows the button for all the suppliers (1 point)
- ☐ The onclick event of the Edit button creates the input and changes the button to Modify (1 point)
- ☐ The onclick event of the “Modify” button shows the alert with the information (1 point)

Exercise 3 (1 points)

Modify the first servlet, so that when the user moves the mouse over (*onmouseover* event) the country name, and alert shows the message: “Numbers of customers in COUNTRY_NAME: NN”, where NN is the number of customers in that country obtained with AJAX.

- ☐ Done

