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Escuela de Ingenieros
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Asignatura / *Gaia:* **Software Engineering**   Curso / *Kurtsoa:* **3º**

Nombre / *Izena:*   Fecha / *Data:* **february 2, 2021**

The files to solve this evaluatios test are in:

https://github.com/nicolasserrano/CS/tree/master/webapps/SE2021_02_12

Delivery instructions are in the ADI content area.

EXERCISE 1 (5 POINTS)

Develop a Servlet named **CountriesList** that lists all the countries in the EU returned by the function getCountryList() in the class ***CountryDataMockup.java***.

The title after the menu must say: "Countries by YOUR NAME".

The list must include the following fields: country Id, code and name. It may also include the flag.

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

The images of the flags are at the address:

http://www.nicolasserrano.com/CS/webapps/auxiliary/CountryFlags/fileName

> Warning: do not copy the hyphen ("-") from the pdf with copy and paste (enter another character).
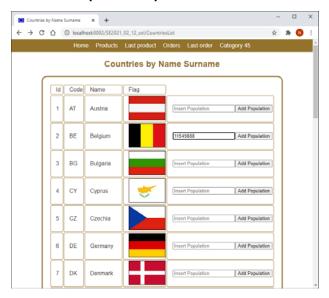
for example:

http://www.nicolasserrano.com/CS/webapps/auxiliary/CountryFlags/flag-austria.jpg

And they can be shown in the web page with the following tag, for example:

```
<img src='http://www.nicolasserrano.com/CS/webapps/auxiliary/CountryFlags/flag-austria.jpg'>
```

Check the sections you have done:

☐ *The solution is in the folder SE2021_02_12 and compressed in the SE2021_02_12.zip file (1.0 point)*

☐ *The solution shows your name before the table (0.5 point)*

☐ *The solution shows the list of fields in the first row of the table (0.5 point)*

☐ *The solution shows the list of countries with the specified fields (2 points)*

☐ *The solution shows the images of the flags (1.0 point)*

EXERCISE 2 (5 POINTS)

In the folder of the test, you will find the **CountriesListJS.html** file. This file includes the file **countries.js**. Currently this file only shows an alert. You should modify the **countries.js** file to add a new cell to every row (or at least to one of the rows) thas has a form an inside the form it has an input field and a submit button named "Add Population". When the user clicks the "Add Population" button, the form will call the servlet '***InsertPopulation***' with the parameters countryId and population. The servlet ***InsertPopulation,*** which is already created, will display the id of the country and the population. The id is equal to the row number of the table.

Note: The **CountriesListJS.html** file should be opened from the menu o the application (**index.html** file) with the url: http://localhost:8082/SE2021_02_12 , so the servlet will be called with the http protocol.

Check the sections you have done:

☐ *The solution shows a new cell in one of the rows (1.5 point)*

☐ *The solution shows a new cell for all the rows (1.5 point)*

☐ *The cell has the form, the input and submit button (1.0 point)*

☐ *The submit button calls the servlet InsertPopulation (1.0 point)*

ADITIONAL EXERCISE – JSON (1 POINT)

Create a servlet that sends the information of ***CountryJSONListMockup.java*** in a JavaScript array (JSON format) with a JavaScript function that represents the information in the same way as Exercise 1.

☐ *Done (1 point) List the elements created (servlet, table, …)*