

Asignatura / *Gaia***Software Engineering**Curso / *Kurtsoa***3º**Nombre / *Izena*Fecha / *Data***28-05-2024**

The files to solve this exam are in:

https://github.com/nicolasserrano/CS/tree/master/webapps/SE2022_05_24_sol

Copy them to a SE2024_05_28 folder in your webapps folder of Tomcat.

Once you finish the exam, you should zip the exam folder in a SE2024_05_28.zip file, that will be read by the Faronics system and you should upload it to ADI into the "SE2024_05_28 Final exam" activity.

Space for student questions

Exercise 1 (2 points)

In the exam folder, you will find a servlet named **SuppliersList** that lists all the suppliers returned by the **getSupplierList()** function in the SupplierDatabase. The list is ordered by Country and SupplierId.

Each supplier will show in a row of the table with the following fields: a Edit link, SupplierID, Company Name, City and Postal code.

Make the changes you consider necessary in the provided **SupplierList servlet** to include in the first column a link named "Edit". The link must include the SupplierID and call a servlet named EditSupplier that you will develop in the following exercise.

The result should be similar to the picture.

Suppliers List				
Suppliers from Australia				
Edit	7	Pavlova, Ltd	Melbourne	3058
Edit	24	G'day Mate	Sydney	2042
Suppliers from Brazil				
Edit	10	Refrescos Americanas LTDA	São Paulo	5442
Suppliers from Canada				
Edit	25	Ma Maison	Montreal	H1J 1C3
Edit	29	<input type="text" value="Forme d'initiales"/> <input type="button" value="Save"/>	Ste-Hyacinthe	J2S 7S8
Suppliers from Denmark				
Edit	21	<input type="text" value="Lyngholm 45"/> <input type="button" value="Save"/>	Lynby	2500
Suppliers from Finland				
Edit	23	Karkko Oy	Lappeenranta	53120
Suppliers from France				
Edit	18	Aux p'teux ecclésiastiques	Paris	75004
Edit	27	Escargots Nouveaux	Montceau	71300
Edit	26	Gaie pâtisserie	Annecy	74000

Check the sections you have done:

- ☐ The solution is in the folder SE2024_05_28 and compressed in the SE2024_05_28.zip file (0,5 points)
- ☐ The solution adds the Edit link in a new column (0,5 points)
- ☐ The solution adds the Edit link including the parameter for the Supplier ID (1 point)

Exercise 2 (5 points)

Develop a servlet called **EditSupplier** to edit a supplier in the supplier table in the database. To do so, you should create a form with a table like the one shown in the picture.

The form includes the SupplierID field which you can keep visible for debugging purposes.

The fields will be filled automatically based on the current data on the database.

The city field is a ComboBox that shows the name of the cities of the selected Country. The list of cities from each country will come from the Suppliers table of the database. You should add an "Other" option in this ComboBox to the list of cities. In case the user selects Other option, the name of the next input will be used as name of the city. This will be used in the **UpdateSupplier** servlet.

localhost:8082/SE2024_05_28_sol/EditSupplier?id=7

Home Products Last product Orders Last order Category 45

Edit Supplier Form. Servlet developed by #your name#

7

Country	 Australia
Company Name	Pavlova, Ltd
City	Melbourne
Postal code	3058

Submit

Develop a servlet called **UpdateSupplier** that reads the fields from the form of the image, and inserts the information in the database.

Just to check if the supplier has been updated correctly in the database, you could use the following line in the servlet after updating the record in the database. Don't forget to refresh the page to see the update!!

```
res.sendRedirect("SuppliersList")
```





Check the sections you have done:

- ☐ The solution adds the text "Servlet developed by YOUR NAME" (0,5 points)
- ☐ The solution shows the list of fields following the format of the image (0,5 points)
- ☐ The solution put the initial value of the fields (0,5 points)
- ☐ The city ComboBox shows the list of cities from the specific country including Other option and shows as selected the current city (1.5 points)
- ☐ The servlet updates the supplier information in the database (2 points)

Exercise 3 (3 points)



Using JavaScript, code a function in which when the mouse hovers (onmouseover event) over the name of the supplier company, the text field becomes a form where it is possible to modify the supplier's name.

The screenshot shows a web browser at localhost:8082/SE2024_05_28_sol/SuppliersList. The page has a navigation bar with links: Home, Products, Last product, Orders, Last order, and Category 45. The main content is titled "Suppliers List" and displays a table of suppliers grouped by country. Each group has a header with the country name and a flag. The suppliers are listed with an "Edit" button, a quantity field, a name text field, and a "Save" button. The name field is currently a simple text input.

Suppliers from Australia			
Edit	7	Pavlova, Ltd	Save
		Sydney	3058
Edit	24	G'day, Mate	Save
		Sydney	2042
Suppliers from Brazil			
Edit	10	Refrescos Americanas LTDA	Save
		São Paulo	5442
Suppliers from Canada			
Edit	25	Ma Maison	Save
		Montreal	H1J 1C3
Edit	29	Forêts d'érables	Save
		Ste-Hyacinthe	J2S 7S8
Suppliers from Denmark			

Using AJAX you should call UpdateSupplier servlet to modify the supplier's name and change the form back to a text form.

The screenshot shows the same web browser at localhost:8082/SE2024_05_28_sol/SuppliersList. The page layout is identical to the previous one, but the supplier names are now in a form state. The "Edit" button is highlighted, and the name field is a text input with a "Save" button next to it. The supplier names have been updated: "Pavlova, Ltd" to "Pavl", "G'day, Mate" to "G", and "Refrescos Americanas LTDA" remains the same.

Suppliers from Australia			
Edit	7	Pavl	Save
		Melbourne	3058
Edit	24	G	Save
		Sydney	2042
Suppliers from Brazil			
Edit	10	Refrescos Americanas LTDA	Save
		São Paulo	5442
Suppliers from Canada			

Check the sections you have done:

- ☐ The solution uses JavaScript to create the form (2 points)
- ☐ The solution uses Ajax to update the information (1 point)