CS4028 Assignment 05 – PHP

Goetz Botterweck, Lero, University of Limerick

1 Invoice Form

1.1 Overview

In this assignment your objective is to create a web form and corresponding action (both in PHP) which can be used to generate simple invoices sent out by the fictitious Limerick Laptop, Ltd.

- form.php Web form where an employee can enter the details of a sale, i.e., which laptop model was sold with what options.
- form-action.php PHP Script called from form.php as a form action (action attribute of <form>) when the submit button is pressed. Generates an invoice (including price calculations).

This main functionality is augmented with a very simple settings page that allows to set the preferred currency.

- settings.php Minimal form to pick a currency from EUR, GBP, or SEK.
- settings-action.php Form action called from settings.php (action attribute of <form>). Saves the chosen value in the PHP session variable

_SESSION["currency"].

1.2 form.php

- The form should provide fields for the following data:
 - o Name
 - Address (text area, 2 lines á 50 characters)
 - o City
 - Country (dropdown), can be Ireland, UK, Sweden
 - (ZIP codes are not supported)
 - Choose one model out of: X13, X15, P5000

- Choose one OS out of: Win10, Ubuntu
- Optional features (can choose none, one, or both): Touch Display, SSD

Invoice Form		
Address		
Name	Goetz Botterweck	
Street Address	Tierney Building University of Limerick	
City	Limerick	
Country	Ireland ∨	
Laptop		
Model	○X13 ○X15 ●P5000	
os	● Win10○ Ubuntu	
Options	☑ Touch ☑ SSD	
Generate Invoice		

1.3 form-action.php

Rules for price calculation

X13	base price 1300 EUR	
X15	base price 1500 EUR	
P5000	base price 1800 EUR	
Win10	0 EUR, i.e., included in the base price	
Ubuntu	- 180 EUR (reduction)	
Touch Display	+ 250 EUR	
Upgrade to SSD	+ 300 EUR	

 The output of form-action.php should look somewhat like this:

asm-05-instructions.docx

Invoice

Limerick Laptops, Ltd. Plassey Technology Park Castletroy, Limerick Ireland

Bill To

Goetz Botterweck Tierney Building University of Limerick Limerick Ireland

Category	Item	Amount
Model	P5000	1800 EUR
os	Windows 10	0 EUR
Options	Touchdisplay	250 EUR
Options	Solid State Disk (SSD)	300 EUR
Total		2350 EUR

- The sender address of Limerick Laptops is fixed.
- The address under "Bill To" is composed from the input in the first input fields.
 - Note that you might have to convert carriage returns entered in the textarea (using the [Enter] key) into line breaks.
- The "Options" lines only show up if the particular options were actually chosen.
- Total shows the total price calculated from the sum of all chosen options.

1.4 Session variable

- Introduce session handling by extending every PHP script with a few lines.
- The session variable
 _SESSION["currency"] will have the
 value EUR, GBP, or SEK.
- Default is EUR.

1.5 settings.php

This form will allow to pick one of EUR,
 GBP, or SEK from a list of radio buttons.

It should look somewhat like this:



1.6 settings-action.php

- This script is called from settings.php as a form action.
- It stores the chosen currency value in the session variable _SESSION["currency"] and gives some feedback message that it has done so. It will then provide a link to jump back to form.php.
- The output should look somewhzat like this:

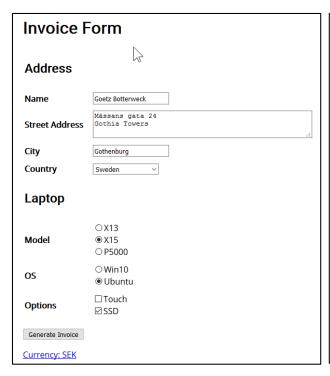


 Note that navigating to settings.php, then to settings-action.php, and finally back to form.php will cause the loss of data entered into the invoice form so far, unless additional measures are taken (e.g., saving the data in session variables).
 We ignore that for this simplified example.

Augment form.php to include currency

- Expand form.php to show the currently set currency in the footer.
- The footer of form.php should also provide a link to jump to settings.php.
- That should look somewhat like this (see footer at the bottom of the page):

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Invoice Limerick Laptops, Ltd. Plassey Technology Park Castletroy, Limerick Ireland Bill To Goetz Botterweck Mässans gata 24 **Gothia Towers** Gothenburg Sweden Category **Item** Amount Model 1500 EUR OS Ubuntu Linux -180 EUR Solid State Disk (SSD) 300 EUR **Options Total** 1620 EUR 15925 SEK **Currency: SEK**

1.8 Augment form-action.php

- If the currency is set to a value different from EUR, use the following conversion factors to calculate a converted total.
 - o 1 EUR = 0.89 GBP
 - 1 EUR = 9.83 SEK
- Use round() to round the converted total.
- Show the converted total in an additional column after the EUR total.
- If currency is EUR, then omit the additional column.
- For instance, for currency SEK and the input in the previous screenshot, the output should look somewhat like this:

1.9 Other Notes

 You should handle the case that initially no currency is defined.

Besides that, to simplify things, we make the following assumptions:

- No input validation (checking for required fields etc.)
- No sanitization of input (e.g., escaping special characters)
- We assume form-action.php just generates a document without changing data. Hence, it is appropriate to use GET as a HTTP method. This avoids annoying confirmation dialogs by the web browser during testing ("Do you really want to resubmit the same data?").

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