

CST8257 Web Application Development

Lab 4

Objective

- Understand and use PHP session management.
- Define and use PHP common components

Due Date

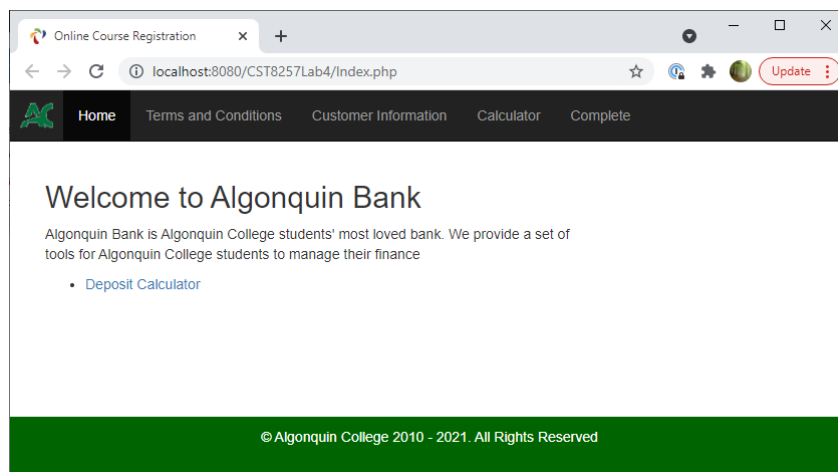
See Brightspace post for the due date. To earn 5 points, you are required:

1. Complete the lab as required.
2. Submit your lab work to the Brightspace before the due date.
3. Demo your lab work during the follow week's lab session.

Requirements

This application turns the single page application you developed in lab 3 into a 5-page application consisting of 5 pages; **Index.php**, **Disclaimer.php**, **CustomerInfo.php**, **DepositCalculator.php** and **Complete.php**.

1. Create a PHP page **Index.php** as shown below:



- Apache Web Server uses index.html or index.php as its default page. That is, when the page is not specified in the request URL, the web server will serve index.html or index.php (if index.html does not exist and php engine is installed) to the request.
- The page has a link to the **Disclaimer.php** page.

2. Create a PHP page **Disclaimer.php** as shown below:

Online Course Registration

localhost:8080/CST8257Lab4/Disclaimer.php

Home Terms and Conditions Customer Information Calculator Complete

Terms and Conditions

I agree to abide by the Bank's Terms and Conditions and rules in force and the changes thereto in Terms and Conditions from time to time relating to my account as communicated and made available on the Bank's website

I agree that the bank before opening any deposit account, will carry out a due diligence as required under Know Your Customer guidelines of the bank. I would be required to submit necessary documents or proofs, such as identity, address, photograph and any such information, I agree to submit the above documents again at periodic intervals, as may be required by the Bank.

I agree that the Bank can at its sole discretion, amend any of the services/facilities given in my account either wholly or partially at any time by giving me at least 30 days notice and/or provide an option to me to switch to other services/facilities.

☐ I have read and agree with the terms and conditions

Start

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3. On this page, the user must check the checkbox **“I have read and agree ...”** before clicking the **Start** button. Otherwise, an error message will be displayed as shown below:

Online Course Registration

localhost:8080/CST8257Lab4/Disclaimer.php

Home Terms and Conditions Customer Information Calculator Complete

Terms and Conditions

I agree to abide by the Bank's Terms and Conditions and rules in force and the changes thereto in Terms and Conditions from time to time relating to my account as communicated and made available on the Bank's website

I agree that the bank before opening any deposit account, will carry out a due diligence as required under Know Your Customer guidelines of the bank. I would be required to submit necessary documents or proofs, such as identity, address, photograph and any such information, I agree to submit the above documents again at periodic intervals, as may be required by the Bank.

I agree that the Bank can at its sole discretion, amend any of the services/facilities given in my account either wholly or partially at any time by giving me at least 30 days notice and/or provide an option to me to switch to other services/facilities.

You must agree the terms and conditions!

☐ I have read and agree with the terms and conditions

Start

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4. After the user checked the checkbox and clicks the **Start** button, a new page **CustomerInfo.php** page is shown as below.

The screenshot shows a web browser window with the address bar displaying 'localhost:8080/CST8257Lab4/CustomerInfo.php'. The page has a navigation bar with links: Home, Terms and Conditions, Customer Information, Calculator, and Complete. The main content area is titled 'Customer Information' and contains a form with the following fields and options:

- Name:
- Postal Code:
- Phone Number: (nnn-xxx-xxxx)
- Email Address:
- Preferred contact Method: ☐ Phone ☐ Email
- If phone is selected, when can we contact you? (check all applicable)
 - ☐ Morning
 - ☐ Afternoon
 - ☐ Evening
- Next > button

The footer of the page reads: © Algonquin College 2010 - 2021. All Rights Reserved.

- If a user tries to access this page directly, bypassing the disclaimer page, by entering this page's URL into the browser's address field, or clicking the top menu item **Customer Information**, the user should be redirected to the disclaimer page.
- This page collects the user's contact information. When the user clicks **Next >** button, the user entered data subject to the same validation rules as in Lab 3, see Lab 3 for details. If the data fail to pass the validations, the page shows the error messages next to the invalid field(s), for example:

The screenshot shows the same 'Customer Information' form, but with user input and validation errors. The fields are filled with: Name: Wei Gong, Postal Code: K1K 1K1, Phone Number: 6132709852, and Email Address: gong@abc.com. The 'Preferred contact Method' is 'Phone' (selected with a radio button). The 'Morning' checkbox is checked under the question 'If phone is selected, when can we contact you? (check all applicable)'. The following error messages are displayed:

- Incorrect phone number format (next to the Phone Number field)
- You must select contact times for us to call you (next to the Morning checkbox)

The 'Next >' button is still present at the bottom of the form. The footer remains: © Algonquin College 2010 - 2021. All Rights Reserved.

- If the data pass the validation, the user is presented with application navigates to the next page **DepositCalculator.php**

5. Create **DepositCalculator.php** page as shown below:

Online Course Registration

localhost:8080/CST8257Lab4/DepositCalculator.php

Home Terms and Conditions Customer Information Calculator Complete

Enter principal amount, interest rate and select number of years to deposit

Principal Amount

Interest Rate (%)

Years to Deposit

< Previous Calculate Complete >

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- If a user tries to access this page directly, bypassing the customer information page, by entering this page's URL into the browser's address field, or by clicking the top menu item **Calculator**, the user should be redirected back to the customer information page.
- When the user clicks **Calculate** button, the input fields subject to the same validation rules as in Lab 3, see Lab 3 for details. If the data fail to pass the validation, the page displays the error messages next to the invalid fields, for example:

Online Course Registration

localhost:8080/CST8257Lab4/DepositCalculator.php

Home Terms and Conditions Customer Information Calculator Complete

Enter principal amount, interest rate and select number of years to deposit

Principal Amount Principal amount must be greater than 0

Interest Rate (%)

Years to Deposit Incorrect number of years

< Previous Calculate Complete >

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- If all fields pass the validation rules, the page displays the calculation results:

Online Course Registration

localhost:8080/CST8257Lab4/DepositCalculator.php

Home Terms and Conditions Customer Information Calculator Complete

Enter principal amount, interest rate and select number of years to deposit

Principal Amount

Interest Rate (%)

Years to Deposit

< Previous Calculate Complete >

Following is the result of the calculation:

Year	Principal at Year Start	Interest for the Year
1	\$1000.00	\$30.00
2	\$1030.00	\$30.90
3	\$1060.90	\$31.83
4	\$1092.73	\$32.78
5	\$1125.51	\$33.77

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- The user entered data should be preserved so that the user can modify one or more entries and click **Calculate** button to get the new results for the modified input(s), subjecting to passing the rule validations.
- When the **< Previous** button is clicked the application navigates to the previous page **CustomerInfo.php** page for the user to modify the entered customer information. The web controls on the page should be pre-filled (-set) with the user previously entered data so that the user only need to modify the entered as needed.
- After the user modifies the customer information on the **CustomerInfo.php** page and clicks the **Next >** button, subject to passing rule validations, the application should come back to this page again with fields pre-filled (-set) with the user's entries before clicking the **< Previous** button.
- When the user clicks the menu item **Complete**, the application navigates to **Complete.php** page

6. Create Complete.php page which is a personalized “Thank You Page”, as shown below:

Online Course Registration

localhost:8080/CST8257Lab4/Complete.php

Home Terms and Conditions Customer Information Calculator Complete

Thank you, **Wei Gong**, for using our deposit calculation tool.

Our customer service department will call you tomorrow morning or evening at 613-270-9852.

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- After showing this page, all the data the user previously enter on **CustomerInfo** page, and the **DepositCalculator** page should be erased from the system so that the user's personal data will not be available to the next user.
 - The next user will be redirected back to **Disclaimer** page if he/she tries to access CustomerInfo page, or Calculator page by entering the page's URL or clicking top menu items.
 - The next user will have to agree the terms and conditions to be able to use the application.
7. All pages of the application should have a top menu with the following menu items:
- Home – Links to **Index.php** page
 - Terms and Conditions – Links to **Disclaimer.php** page
 - Customer Information – Links to **CustomerInfo.php** page
 - Calculator – Links to **DepositCalculator.php** page
 - Complete – Links to **Complete.php** page
8. All pages of the application should have a footer with copy right declaration as shown in the screen captures.

Hint: Study and understand the example **PC Store**. Copy and modify its **Header.php** and **Footer.php** files for use in this lab.