Lab 10 – PHP, AJAX, and XML

# Purpose

* Explore XML using PHP and AJAX
* Upload your website to a Web server

# Due Date

* This lab must be handed in:

**Sunday Dec 02, 2018 – before midnight**

# Assessment

* This Lab is worth 2% of your total course mark.

# Assigned Readings

Use the slides and examples found on Brightspace. Module 5, Part 3 and Part 4

# Lab Supplies

To complete this lab you will require the following lab supplies:

* Textbook: Fundamentals of Web Development
* EasyPHP, or other WAMP server
* Eclipse, Notepad (or other text editor, or IDE)
* FileZilla (or other FTP client)

# Summary of Tasks

1. Develop the logic to display your web application
2. Upload your website to the webserver
3. View your webpage using a web browser
4. Submit Assignment Link on Brightspace
5. Submit Source Code of HTML and PHP files on the Brightspace

# Task 1

Before getting started with the following tasks, review the ‘Common Look and Feel’ video provided on Brightspace (under: Course Content 🡪 Extra Materials). Using the knowledge gained in these materials, implement the following Design Pattern to create a ‘Common Look and Feel’ to be used on every page of your website.

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| --- |
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Your web site will include the following HTML page:

* Books.html

Your web site will also include the following PHP scripts:

* Header.php
* Footer.php
* Menu.php
* Books.php

**NOTE: Books.html and Books.php must include the Common look and feel implemented in Header.php, Footer.php and Menu.php.**

**Header.php**

Header.php must contain a script to display a Common Header that will appear on every page. The header must contain a banner (images, css, etc).

**Footer.php**

Footer.php must contain a script to display a Common Footer that will appear on every page. The footer must contain Student Number, First Name, Last Name, and Email Address

**Menu.php**

Menu.php must contain a script to display a Common Menu to be shown on every page. The menu must contain link to ***Books.html***. NO link is required for ***Books.php*** as it can ONLY be accessed through Books.html.

**Books.html**

Create a web page that can fetch information from an XML file using PHP and AJAX. You need to display the selected content from the following XML file:

<http://www.rejaul.com/CST8238/Lab10/Books.xml>

Design the following form that will accept input from the user.

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The form should provide a number of options to select books of specific category as below:

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| --- |
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When a user selects a book category from the dropdown list, all Books’ Information related to the selected category should be displayed as below.

Expected output 1:

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|  |

Expected output 2:

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| --- |
|  |

Expected output 3:

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|  |

Expected output 4:

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| --- |
|  |

Expected output 5:

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| --- |
|  |

**Books.php**

Book.html file will call a PHP file named ***Books.php*** to download the contents of the XML file and produce the sample output as above. The PHP script loads an XML document, "[Books.xml](http://www.rejaul.com/CST8238/Lab10/Books.xml)", runs a query against the XML file, and returns the result as HTML.

Sample examples as to how to do this Lab can be found on Brightspace: **XMLCodeExample.zip** and **PHP-Ajax-XML-Example.zip**

# Task 2

Upload your website to the Web server. Use an FTP client to connect to your Web server.

Once you connect to the webserver using an FTP client, create a directory called ‘/CST8238/Lab10’. Once your course directory has been created navigate to that new directory.

Add all files to this location. (Using FileZilla simply drag all files into your folder).

# Task 3

View your website using a web browser. Open a web browser and navigate to the following web address:

**http://web-server\_domain\_name/CST8238/Lab10/<filename>**

For example, the web address to my page is:   
  
http://profrejaul.com/CST8238/Lab10/Books.html

Where ‘profrejaul.com’ is the domain name of the Web server, ‘ /CST8238/Lab10’ is the name of the directory I created in the Web server using FTP client and ‘Books.html’ is the web page I created for this lab.

# Task 4

Once you have confirmed that your webpage is available online, you are ready to hand in your lab.

Create a compressed file (**Lab10.zip**) which will contain the following PHP files:

* Header.php
* Footer.php
* Menu.php
* Books.html
* Books.php

Create a word document (**Lab10.doc**) in which write the following Information:

* Student Number
* First Name
* Last Name
* The URL, or hyperlink of the home page (Books.html) of Lab 10

To hand in your lab go to Brightspace and navigate to Content 🡪 Labs and click on ‘Lab 10 – PHP, XML, AJAX’ link.

Upload the word document (**Lab10.doc**) and the compressed file **(Lab10.zip**) on Brightspace.

Finally, click the ‘Submit’ button to send the lab to your professor.

N.B. Please keep in mind that ONLY .**zip** file is accepted as the format of the compressed file.

**IMPORTANT NOTE**:

If the URL, or hyperlink, does not direct the professor to the lab you will receive a **ZERO** for the lab assignment.

**IMPORTANT NOTE:**

You may only submit a Lab ONE TIME. Be sure the lab is complete before clicking on the ‘Submit’ button.