

DGT2034Y Assignment Semester 1

Coursework Aims

This coursework allows you to demonstrate that you:

- Understand how to design and develop a dynamic website to demonstrate the use of XML/XSD/XSL together with DOM, AJAX and PHP
- Are capable of using various technologies including but not limited to: XML, XSD, XSLT, AJAX, DOM and PHP.
- Are able to make the various technologies listed above work together
- Can write web development code that it is understandable and conforms to good coding practice.

Specification

You are expected to design and develop a full-fledged dynamic website with appropriate content for a fictitious local business. The website should include components that will demonstrate your knowledge and skills in using the different technologies covered in the Internet Technologies and Web Services module semester 1. This includes:

- A home page
- Proper navigation through menus and links
- Demonstrate advanced knowledge XML, XSD, XSLT with AJAX, DOM and PHP

Additionally, for bonus marks, students may

- Use PHP to manipulate their XML files
- Any other exceptional functionality using the above technologies or other related technologies

Use of templates is acceptable; However, students should be aware of the following: Whenever templates/codes are taken from someone/somewhere else, this should be clearly and explicitly acknowledged as comments with the codes and in the accompanying word document. Marks will not be allocated for codes taken from other sources but marks will not be deducted either, provided proper acknowledgements for borrowing the codes are included.

Team Composition

Students should normally work in groups of 2.

Marking

Marks will be given for:

- Proper use of XML, XSD, XSLT with AJAX, DOM and PHP
- XML files which are complex – have more than 1 child element, having attributes etc
- XSD files which demonstrate the different topics covered in class – named elements, ref, ...
- XSL files which are complex – displays which are based on calculations, display of images, links, ...
- Overall look and feel of the website (in terms of aesthetics and usability)
- Good coding style
- Good comments in your source code
- Bonus marks: Successful completion of one or more extensions advanced feature such as manipulation of XML using PHP

Submission

Please submit the following in Google Classroom (or as instructed by your lecturer)

- the source codes files for the website (in a folder and zipped)
- a file for the SQL dump of your mySQL database (if any)
- a readme file explaining the installation of any files and how to access different links for different functionalities.

Submission Deadline is Monday 18th December 2020 (Week 11) at 16:00.

ZMD