

# XML Final Marked Assignment (FMA)

## **Introduction**

The FMA, which carries 75% of the total marks for this module, requires you to use XML to enhance the existing website for Yum Juices.

The completed FMA website should be published on your BBK student website, while the FMA documentation should be submitted electronically in the assignment dropbox in Moodle. BOTH need to be completed/submitted by the appropriate deadline for your class.

## **Completing the FMA**

You should work on your FMA both during and after the classes. Begin your work early, as the FMA is a substantial task that requires much planning and effort to complete satisfactorily.

## **Getting support**

Support tutorials are usually available up to 2 weeks before the FMA deadline, depending on tutor availability. These sessions allow you to discuss plans, completed work or any problems you are experiencing in completing the FMA with your tutor in private, on a one-to-one basis. To check tutor availability and arrange a tutorial please contact your tutor by email or request an appointment in class.

## **FMA Specifications**

### **Introduction**

Yum Juices is a young company that serves up delicious, nutritious, energising smoothies and juices. The company has a large portfolio of products ranging from dairy-free, gluten-free, vegetarian and vegan smoothies and juices. Additionally, Yum Juices provides, to their consumers, details of the main ingredients of their products to ensure that those allergic to certain food don't absorb the wrong type of food. Finally, the company offers the option to have no added sugar or additives in their juices.

Yum Juices have a website that currently displays basic information regarding the company and a brief summary of the products that they offer. The company has recently gone through a major restructure in order to bring in "new blood" and boost sales. The Sales department has been given 12 months to double the company's profits. The new Sales director has 26 years of experience and is a great believer that Information Technology can help achieve these ambitious targets.

### **Your Task**

The Sales director has two main strategic objectives:

1. Expand business outlets by creating franchise opportunities with other type of businesses.
2. Increase the functionality of the Yum Juices website and offer it as an added value service to its franchise partners.

To enhance the website the Sales director decides to use a three phased approach since he is very keen to see results quickly. You have been hired by the Sales director to design, develop and implement the first phase of this project.

You are tasked with enhancing the existing website by performing the following:

- Create a product web page to display all the products available for purchase. Each product should display the following: product name, ingredients, juices and fruit information, nutritional values and the price (additional fields that you may feel relevant may also be added).
- Yum Juices have decided that in order to be more diversified it would be a competitive advantage to be able to modify products and prices on a daily basis. Hence, they would like to have the flexibility to upload their own xml files into the web site that contains their

products and pricing information. You need to design the XML Schema and the XML file that contains this data.

- Since the Sales Director's future vision is for mobile devices to access the website your web pages must be written using XHTML/HTML 5 and CSS, and be W3C compliant.

## **Deliverables for submission**

### **FMA website**

You must publish your FMA web pages on your Birkbeck student website. The URL of your FMA home page should be:

`http://titan.dcs.bbk.ac.uk/~username/xmfma/index.html`

where username = your DCSIS username

### **FMA Documentation**

You must submit the following FMA documentation electronically in the assignment dropbox in Moodle before the FMA submission deadline for your class:

- A ZIP file (saved as username\_xmtma.zip) containing the following text files:
  1. An XML document containing the product data (you must provide at least 10 different types of products).
  2. An XML Schema document of the product and pricing information that may be uploaded to the website and used to display the product page.
  3. XSLT document that performs the transformation of the XML document into an XHTML/HTML 5 webpage.
  4. A CSS file used for formatting the layout of the web page.
  5. Your Learning/Development Log (saved as username\_xmfma.pdf), including screenshots of the output produced, validation reports and a clear description of the approach taken for delivering the FMA.

#### **Notes:**

- Remember to replace username in the above specified file names with your own ITS username!
- Please ensure that all files submitted include your Full Name, ITS Username, Module Name and Tutor Name. If a required file is not submitted, the examiners will not search for missing files and 0% will be awarded for any missing components.

- High quality design documentation and website content is crucial. All text should be clear and accurate in terms of spelling, grammar and presentation. Do not use *Lorem Ipsum* for the website content.

### **Getting feedback**

Feedback on the marked FMA can be downloaded from Moodle and will normally be returned to you within 6-8 weeks of submission.

### **Backing up files**

Always keep a back-up copy of all work submitted for assessment in case of unforeseen submission problems.

### **Plagiarism**

Plagiarism, which is claiming the work of others as your own, is a serious offence and can result in your exclusion from all colleges of the University of London. You should be aware that we use a range of automated tools to spot potential plagiarism in work submitted for assessment. Providing you clearly reference work done by others that you have included in your TMA you will not be penalised.

## **Criteria for assessment**

The criteria below show the proportion of the marks (out of 100%) that will be awarded for each component of the assignment and the standards you should aim to achieve.:

1. **Knowledge and Understanding (20%)**: level of understanding shown; skills in managing and planning your work.
2. **Well formed XML (30%)**: Correct Use of XML, mark up of the products, XSLT transformations; use of extras.
3. **Valid XML/Schema document and in-depth XSLT usage (20%)**: Quality of XML Schema document. A document cannot be validated unless an XML Schema is referenced for the XML processor. Usage of XSLT elements such as apply-templates, for-each and sort.
4. **Documentation and Deliverables (20%)**: Submission of all required FMA deliverables, including screenshots illustrating the presentation of the XML document. Your Learning/ Development Log should clearly, concisely and accurately explain a valid design strategy and include reflections on your learning experience.
5. **Professional presentation (10%)**: The look, feel and functionality of your FMA website and associated documentation.