**vvvvvvCSIT 128 – ASSIGNMENT 6 (5%)**

**REMINDER:**

**1. Students must attend the lab session and demonstrate the assignment.** During demonstration, 1 mark will be awarded to the student if the student clearly demonstrates and correctly answer the question(s).

**Task 1 (1 mark):**

1. Read the situation below and prepare XML document to store relevant data.

The patient at INTI hospital receives medications prescribed by the doctor(s). The patient is described by their unique medical number, first name, last name, gender and medication received. The patient can receive one or many medications in a day. The medication is described by the name, company manufacture and drug registration number. The patient may be treated by one or more doctor. The doctor can be recognized by their registered number, their first name, last name and specialization.

1. Additional requirement:
   1. Provide at least **THREE (3) sample data** for patient, doctor and medication.
   2. Use **IDREF** to reference between patient, doctor and medication.
   3. Store data about **gender** and **IDREF** in **XML attribute**.
   4. Use **XML entity** to store doctor’s specialization.

**Task 2 (1 mark):**

1. From your XML document in Task 1, create a DTD document.
2. Use the XML Exchanger Editor to help validate DTD document.

**Task 3 (1 mark):**

1. Based from your XML in Task 1, create XML Schema document.
2. Use the XML Exchanger Editor to help validate XML Schema document.

**Task 4 (1 mark):**

1. Prepare XSLT document to display the XML data (from Task 1). Read the following requirements, and include them in your XSLT.
   1. Prepare THREE different table to display data about patient, doctor and medication.
   2. Sort the patient’s table by their last name.
   3. Sort the doctor’s table by the doctor’s registration number.
   4. Sort the medication’s table by the registration number (in descending order).
   5. Change the background color for each Table heading. Use three different color.
   6. Display the doctor’s first name and last name in a single column.
   7. If the patient being treated by more than one doctor/ received more than one medication, then include a comma (,) to separate each data.

**Submission:**

1. During demonstration, your attendance is required. **If the student didn’t demonstrate the work, 0 marks will be given.**
2. The marks will be awarded according to tasks completion and ability to explain the code.
3. Paste all HTML code into a text file (**save it as Assignment6.txt**). You must include the following:
   1. Student declaration. (refer page 4)

(**If student didn’t submit this section, the instructor has the right to NOT MARK the student’s work**).

* 1. Student’s Assignment (code) separated by file name. (refer page 4)

**Example of Student’s declaration**

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STUDENT DECLARATION  
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**I have read the policy for plagiarism at University of Wollongong.  
I declare that this assignment is entirely my work.  
If found to be plagiarized, I will receive 0 marks.**

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STUDENT DETAILS  
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STUDENT ID NUMBER: <put your UOW/INTI ID here>  
STUDENT NAME: <put your name here>  
STUDENT FAMILY NAME: <put your family name here>  
UOW EMAIL: <put your UOW email address here>

**Example of Student’s Code**

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Filename: test.xml  
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<car>  
 <color> Green </color>  
 <price> 15000 </price>  
<car>

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Filename: test.dtd  
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