

# IMY 210

## Unit Assignment 1: XML

### Important!

- Make frequent backups of your working files
- You will receive 0 if your final XML file is not well-formed
- Remember to include your name and student number as comments in the file.

### Provided Files

- **data.pdf**: Set of data to be transformed into XML format.

### Scenario

- You recently decided to create a mobile application that would store information about users' preferences and likes be it food, video games, movies, music or more.
- Having no idea what kind of information to register on the system, you requested that some of your friends send you a list of their preferences and use it as a base to what information you need.
- Foreseeing that every user will provide the information in a mixed manner you decided to create some structure to future proof your system.
- To cater for this, you plan to create a custom XML markup language for the data and use this as the base structure to input the data into your mobile application.

### Task

- Create a custom XML markup language for organising and storing preferences, such as the data in data.pdf. Your final markup must include the following capabilities:
  - Each XML document can be used in describing several users' interests.
  - For each user, you must include five categories
    - User information
    - Preferences in Movies
    - Preferences in Video Games
    - Preferences in Music
    - Preferences in Food
  - The mark-up language should be generic; in other words, one should be able to describe any of their related interest using this custom language, regardless of the number of items in the list.
  - Ensure that the language's structure forms a sensible hierarchy (restructure the data if needed) and that it breaks the data into smaller segments when needed.
  - Ensure that your tag names are short and descriptive, and be consistent in your naming convention.
- Create an example XML document named **A1.xml** using your new language and populate it with the data found in data.pdf.
  - You must use all the data from data.pdf, and you may not add data from additional sources.
  - You will notice that some entries have missing or additional elements. Cater for this in your structure by using empty tags and adding other relevant tags.
  - Remember that all similar preferences must follow the same structure.
  - Use a combination of elements and attribute where you see fit.
- Ensure that your final document **A1.xml** is well-formed

## Reminder

- Show that you understand how to structure information as it is stored inside an XML document by making use of **nests, empty tags, and attributes** where necessary.
- Ensure that your structure across likes and preferences stay relatively the same throughout the document.

## Submission

- Compress **A1.xml** into an archive named **A1.zip**.
- Make final backups of all your files and keep it in a safe place.
- Submit your ZIP file to link provided on clickUP.