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# ****Module Details****

**Module Code:** UFCFV4-30-2

**Module Title:** Data, Schemas & Applications

**Module Tutors:** Prakash Chatterjee, Jun Hong

**Individual Tasks:** Refactor/Extend the Application

## **Individual Task Title:** **Refactor the data set using XML and XML-Schema**

Task Description: All data in the database refactored to XML documents using consistent naming conventions (for the entities and attributes) and appropriate XSD schema design for each instance document. You should demonstrate that your XML is valid against these schemas during your presentation (using oxygen). To achieve maximum marks you might want to analyse and explore how XSLT could be applied to generate the required functionality of the site.

# Requirements

Naming conventions:

Entities and attributes must be named consistently throughout all XML documents.

XSD schemas:

Each instance document has a corresponding XSD schema that is designed appropriately to ensure its validity.

Validation:

Each XML document are validated against its corresponding XSD schema using Oxygen

Maximum marks:

Exploration and analysis of how XSLT could be applied to generate required functionality

# Outcome:

Refactoring the data set using XML and XML-Schema provide several benefits, including improved consistency, easier maintenance, and enhanced interoperability. It also enables the use of XSLT to generate dynamic content, which can improve the functionality and user experience of the site.