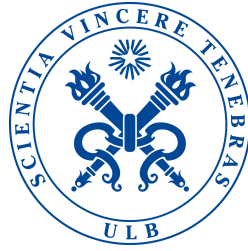


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INFO-H-509 : XML AND WEB TECHNOLOGIES

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# Project 1 : XML Schema Definition

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# Contents

<b>1</b>	<b>Project 1</b>	<b>2</b>
1.1	Presentation . . . . .	2
1.2	Hypotheses . . . . .	2
1.3	Verification . . . . .	2
1.4	Conclusion . . . . .	3

# Chapter 1

## Project 1

### 1.1 Presentation

As part of the course INFO-H-509 : XML and Web Technologies, we were asked to represent a bookshop in XML and also to define an XML Schema Definition for it.

### 1.2 Hypotheses

- The *scientific products* departement and *leisure products* departement must always exists since it's a bookshop that possesses these two "entities".
- It is possible for a departement to not have any products since products are items that can be sold, given or even thrown.
- We assume that the bookshop is pretty big and even has a storage in which they can store the extra products. Therefore, the number of products in a departement are unbounded.
- For the year of publication, we allow only positive integers because we assumed that the products on the bookshop were all published after the year 0.
- ISBN notation could vary so we defined it as a string.
- The price of a periodical leisure is a positive decimal with 2 digits.

### 1.3 Verification

We defined a bookshop with few items of each kind to test our schema. We also used the XSDValidation tool to check if the schema and the xml document matched.

## 1.4 Conclusion

With this project, we learned how to use XSD to describe the structure of an XML document. In this case, we described a specific bookshop with 2 departements. We had to put in relation the different kind of books and create new type in XSD to allow such behavior.