Lab 7: Semistructured Database Models and XML

Due date: Friday, March 12.

Lab Overview

The lab gives you some experience with design of semistructured database models.

Assignment

This is a team lab, which can be completed by the project teams. Each team needs to submit only one set of deliverables.

Each group is tasked with the following assignments.

Task 1: Product

The first task is to create a semistructured model of a product object for your course project.

- Study once again the course project documentation.

- Construct a semistructured data model for a single product. The model must incorporate **all** product features including localization and options.

- Create an XML DTD for the semistructured model you built.

- Create an XML file containing the information about one product from each of the six manufacturers in the test data set.

Task 2: Catalog

The second task asks you to construct a semistructured model of a single catalog.

- Extend, and where necessary, modify your semistructured model for a single product, to now represent a single catalog.

- Create an XML DTD for this model.

- Create an XML document representing the catalog of International Yarns from the test dataset.

Notes

Remember that each XML document contains a single XML element — the root of the document. (a list of XML elements is NOT an XML document by itself). For Task 1, you are expected to create a DTD which would "admit" XML files that consist of a single `<product>` element. For Task 2, the designated root element is `<catalog>`.

Submission

Submit in both hardcopy and softcopy:

1. The XML DTD files.

2. The XML files.

Hardcopy submissions are due Friday, March 12. I will have a collection envelope set up in front of my office on that day.

Softcopy submissions should be **both** posted to the course wiki, **and** submitted via handin:

```
handin dekhtyar lab07-366 <files>
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