

Project-task 1 - Using CSS for XML formatting and DTD definition

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Stwórz dokument XML, który będzie wykorzystywany w kolejnych zadaniach-projektach. Zastanów się nad możliwością umieszczenia oprócz danych o usystematyzowanej strukturze także informacji dodatkowej - takiej jak np. dane o autorze dokumentu, osobach wprowadzających poprawki, dacie ostatniej modyfikacji, itp.

Create an XML document that will be used in next project-tasks. Consider the possibility of including, apart from the structured data, additional information - such as authors of the document data, persons introducing corrections, last modification date, etc.

The prepared **XML document should contain** elements such as:

- Texts with different meanings and different lengths.
- Numbers in various formats.
- The date(s), if applicable, the amount of money.
- Complex data types.
- Elements with a specific set of values (enumeration types).
- About 20-30 data items (can be more 😊).

Next, create a cascading CSS stylesheet to view the contents of the XML document in the browser. All information presents in the form of two sections (using tables, borders, etc.):

1. in the first section should be general information about the document, read from selected tags (such as the authors of the document, description of its content, etc.);
2. in the second section (with columns or other arrangement) the content from the remaining markers containing regular data should be found.

When you will build a **CSS document**:

- combine an XML document with data with a document describing how to format them (external CSS file);
- use different formatting circuits (style: display);
- use different selectors and pseudo-classes;
- try formatting in the form of a bulleted or numbered list;
- use table background modifications, bullets in lists, etc .;

- adjust the fonts, colors and layout of the text on the page;
- perform the project professionally and neatly, in an attractive way to the eye.

The next step is to build a **DTD document** to pay attention to:

- order of occurrence of elements of the document;
- optional and required elements;
- the number of repeating elements (once, many times);
- specification of additional information about the element by subelements and by attributes;
- the way of defining many attributes for one tag;
- **placing repeating elements** (eg information about the producer of the product) **in a separate section and referring to them using the ID and IDREF type attributes;**

Before you respond, make sure that the document meets the following requirements:

- uses the correct code page: UTF-8 (the proper encoding and file format on the disk);
- passes correctly the validation process in the selected XML editing tool.

Proposals of the subject matter of the document:

invoices, annual salary bill, CD discs (various genres of music), orders of goods, catalog of books in the library (including departments), information about voters, catalog of computer programs, timetable at the university, description of the system configuration (step by step), file help for the program, sports results from a period of a few months (various disciplines)

Replies to project-tasks should be placed in the right place.