# Homework: XML Basic Concepts

This document defines the homework assignments from the ["Database Applications" Course @ Software University](https://softuni.bg/trainings/21/Database-Applications-Mar-2015). Please submit as homework a single zip / rar / 7z archive holding the solutions (source code) of all below described problems.

## Create Students XML Document

Create a XML document students.xml, which contains structured description of students. For each student you should enter information for his **name**, **gender**, **birth date** (in ISO 8601 format), **phone number** (optional), **email**, **university**, **specialty**, **faculty number** (optional) and a list of taken **exams** (exam name, date taken, grade).

## Add XML Namespace

Explore [http://en.wikipedia.org/wiki/ Uniform\_Resource\_Identifier](http://en.wikipedia.org/wiki/%20Uniform_Resource_Identifier) to learn more about URI, URN and URL definitions. Add default namespace for the students "urn:students".

## Create XSD Schema

Create a **XSD Schema** **students.xsd** for the students XML document. You may generate the XSD schema with Visual Studio or other tool. Add a new optional element in the XSD schema: **endorsements** (author, author email, endorsement date, endorsement text). Validate your XML by the XSD schema.

## \*\* XSL Stylesheet

Write a **XSL stylesheet** to visualize the students as HTML. Test it in your favourite browser.

\* Some browsers might have security restrictions that prevent XSL rendering from local files. In this case, use different browser or upload your files to a Web server.