

Application programming – Java and XML technologies

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Absences

One absence is allowed without affecting the final grade, *assuming* that all assignments have been completed. Additional absences will affect the final grade (at least 0.5 grade subtraction per absence)!

Meetings order:

- 1 Introduction.
- 2 UML to XML mapping (introduction and exercises).
- 3 UML to XML mapping (written test).
- 4 Scientific articles presentations (probably 2 or 3 meetings).
- 5 Lecture presentations (probably 2 or 3 meetings).

Following assignments have to be completed and will be graded:

- 1 UML to XML mapping written test.
- 2 Scientific article presentation.
- 3 Lecture presentation.
- 4 Java/XML project.

Introduction and exercises:

- 1 Introduction to UML (class diagrams, relations).
- 2 Introduction to UML to XML mapping using DTD.
- 3 UML to XML mapping exercises by students (will affect final grade!).
- 4 Basic knowledge about XML, DTD and object-oriented programming required.

Written test will happen on the meeting after the exercises.

No notes, phones or other aids allowed during test!

Study of various problems and possibilities of XML and Java:

- group will be assigned by the teacher (assignment will appear on the course website soon),
- each group will be assigned a scientific paper,
- group size (at least 2 students) will depend on the article size,
- the task is to prepare 15 to 20 minute presentation (with slides), *based on the information from the paper.*

Article reading (2)

- both the quality of the slides and the manner of presentation (*i.e.* speaking) will be graded!
- presentation should summarize the paper: what problem it focuses on, what are the authors' suggestions, findings and conclusions,
- too much detail is unnecessary, while examples from the paper are welcome,
- at the end of the presentation state you own opinion concerning the problem and the solution shown in the paper. If there are newer or better solutions than the ones in the paper, state them.

- topics will be assigned by dr. Walkowiak during Lecture,
- prepare a presentation on the given topic,
- present during Tutorials,
- hand over presentation materials during Lecture,
- number of people and the time limit per presentation will be decided later.

- a small project done in groups,
- time: several weeks (depending on the schedule),
- application programming with Java (and preferably XML),
- topics are chosen by the groups (but need to be accepted by the teacher),
- details and instructions will be covered later on.