

Web Engineering

Winter Semester 2015/2016

Homework #2 (contains 4 exercises – 30 points)

Due on 17.11.2015

Please submit your solutions using the repository, in the folder that is provided for your group.

In Team: <https://ist.uni-koblenz.de/teams/de/user/registration/s84gfhesga> you can click on “Link zum SVN-Repository” (folder icon) in front of your group name to directly go to your own folder in the repository to submit the exercises.

This is the first homework; you have to submit your solutions till the mentioned deadline (17.11.2015). Submitting the solutions of the exercises and reaching **50%** of the **total points (which will be 150 points over the course of the semester)** of the exercises are mandatory **to be able to take part in the final exam.**

Bonus System: By reaching 75% of the total points of the exercises, increase your point score by 5% of the total number of points that can be reached in the exam.

By reaching 90% of the total points of the exercises, increase your point score by another 5% of the total number of points that can be reached in the exam.

We will discuss the solutions of this exercise in the exercise group. Each group should present their results at least two times over the course of the semester.

Exercise 1: Choose an application (website) from the category “Semantic Web Applications”:

- a. Describe why it belongs to the semantic web applications.(3 points)
- b. Analyze this web application (website) based on the 8 quality aspects that are provided on page 18 WE01Introduction.(8 points)

Exercise 2: What are the differences between Dom and SAX parsers?
Please explain. (4 points)

Exercise 3: In this exercise you will create an XML description of a student semester plan. This description should contain

- the personal information of the student (name, family, birthday(day, month, year), address(street, number, code, city), ...)
- Educational information (semester, field of study,...)
- Current semester plan contains current courses and relevant information on the courses such as name, time, room, subject, professor,

We recommend to use Notepad++ as the editor. However you can use any other editor to write the XML description. Please, only submit the XML description as text, no .xml file is needed. (10 points)

Exercise 4: What are some of the essential features of Ubiquitous web applications? Why is it challenging to build Ubiquitous web applications in general? To answer this questions you can use the provided references. However, you can use any other scientific source. (5 points)

- <http://dl.acm.org/citation.cfm?id=2370377>
- www.icin.co.uk/files/programmes/Session5B-3.pdf