

# Distributed and Outsourced Software Engineering

## Assignment 2: Requirements Consolidation

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*General deadline: **October 28th, 2014 - 11 pm (CET)***

### 1. Assignments and Homework

In DOSE 2014, we will send *assignments* and *homework*. Assignments have to be completed by Groups with contributions by each team. Since we have requirements teams and development teams, we will send different assignments for each team role. The current assignment applies to ALL TEAMS. The deadlines through out the semester will be as follows:

#### Requirements Teams (Brazil & Innopolis)

*Assignment 1:* Requirements document: October 20th, 2014

*Assignment 2:* Discussions and consolidation: October 28th, 2014

*Assignment 3:* Final requirements document: November 11<sup>th</sup>

*Assignment 4:* Test plan: November 18th

#### Development Teams

*Assignment 2:* Discussions and consolidation: October 28th, 2014

*Assignment 3:* API Design: November 11th

*Assignment 4:* Implementation & Testing: December 9th

*Homework* has to be completed individually, and they are mandatory for development teams and optional for requirements teams. *Homework* will consist of a set of simple programming task (they will no take longer than 20-30 minutes to solve). We will use:

<https://Codeboard.io>

as a platform to do and submit your homework.

You will receive *homework* in a separate e-mail, with clear tasks and deadlines (the first *homework* will be sent on October 30<sup>th</sup>, 2014). Usually, we will give you one week to complete the *homework*.

### 2. Group communications

Your team has been assigned to teams from other universities by now. Together with these other teams you are now a **group**. For now, a group consists of one requirement team and two development teams. Check the Wiki to find out which other teams are in your group and what your **group number**<sup>1</sup> is:

<https://code.google.com/p/dose2014/wiki/Groups>

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<sup>1</sup> Remember to provide your team number and group number with every email you send to the lectures or other participants of the course.

The Wiki contains the contact information of all your group members. Furthermore, your group has a group-wide email-list that contains all group members. You can write to that list by using the following recipient:

[se-dose-groupN@lists.inf.ethz.ch](mailto:se-dose-groupN@lists.inf.ethz.ch) (with N in 1 ... 8)

To start working with your group, the teams and individual students should introduce each other. We recommend that you schedule a video-conference where every group member participates.

### 3. Requirements Consolidation

The student teams from the universities in Brazil and Russia have prepared requirements documents (SRS) for a web-based project management system to support distributed software development. Developer teams have been associated to one of these requirements teams. In this task, your development teams must work together with the requirements team to consolidate the requirements.

The main goal of this assignment is to agree on the requirements that will be implemented, i.e. to negotiate the requirements to be included and excluded. The requirements team will then have 2 more weeks to finalize the documents (while the development teams work on the API design).

#### **Task: Review (to be done individually by each student)**

Each member in your group (excluding the requirements teams) has to review the SRS document, as it is currently available in the repository. During this review, you have to assess the quality of the document, and fill-in an online questionnaire about it. Take a look to the on-line questionnaire before starting the review. This will help you becoming familiar with the main criteria that you should evaluate:

<http://tinyurl.com/requirements-dose2014>

***Deadline: all students must fill in the questionnaire by  
October 28th, 2014 - 11 pm (CET)***

You can find the current SRS documents in the repository (/trunk/requirements)

#### **Task: Consolidation (to be done by the whole group)**

The goal of the consolidation phase is to agree on the requirements to be implemented. Some requirements might be missing, and your group would need to add them. Some requirements might be impossible to implement and your group has to discuss those and probably reject them. Some requirements might need improvement or clarification. All modifications, additions and removals of requirements need to be discussed and agreed upon with the requirements team.

At the end of the consolidation phase, the group has to agree on the requirements of the system. The requirements team will have 2 extra weeks to finalize the documents, but the scope should be well defined.

Please, keep track of the following information:

**Removed requirements** – Lists (using the requirements IDs) all the requirements that were removed, and gives a short justification why they were removed.

**Modified requirements** – Lists (using the requirements IDs) all the requirements that were modified.

**New requirements** – Lists (using the requirements IDs) all the new requirements.

The information will be added to the requirements documents by the requirements teams in Assignment 3.

### **Task: Selecting a project component**

The following task is only relevant for the development teams. Each project will be organized in 2 main components:

- Front-end: the Web front-end of the application using HTML, CSS, and JavaScript.
- Back-end: the server part of the application using Apache, the Eiffel Web Framework, and SQL.
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All groups must decide which development team will implement which component (one team should implement one component).

Once you have decided which team develops which component, you should update the “Overview” table in the wiki accordingly:

<https://code.google.com/p/dose2014/wiki/Groups>

***Deadline: October 27<sup>th</sup> - 5 pm (Zurich time)***