Medical informatics, ht 2011

Instructions for group assignment

The group assignment consists of a small project to be performed in groups of 5 persons. There are two main different types of projects possible:

1. To analyse an existing system (IT system for use in a professional health care setting), to describe it and to evaluate its usability and to suggest preliminary solutions to existing usability problems.
2. To analyse and discuss a more theoretical aspects of use of IT in health care, by literature studies, material found on Internet etc. The purpose of the study should be to describe and discuss aspects related to technology, usability, efficiency, benefits etc of IT in health care environments. It could also be relevant to study, describe and analyse some larger IT project in health care, and to evaluate this with regard to usability, benefits etc.

In both types of assignments, the focus should be on usability, design of the user interface and the benefit for the health care professionals and/or for the patients. You are supposed to use one week working time per person for the assignment.

If you have any special interests it is also possible to perform other types of assignments connected to the objectives of the course. If you have your own ideas please contact the teachers.

The purpose of the assignment is:

- to get a feeling for how professionals in health care use IT as a tool in their everyday work,
- to understand problems that are associated with use of IT in health care,
- to understand problems related to development and deployment of IT in health care,
- to see which positive effects that potentially could be reached, if everything was made in an optimal way.

You are supposed to study, analyse and understand a specific application area and a specific (small) problem in more detail. You should in the first type of assignment visit a health care work place and observe and discuss with professional users. In the second type you must search for relevant information on your own.
Process

**Step 1:** Form groups of 5 persons. This should be done latest **Wednesday Nov 2.** Each group should send an (one) email to Bengt Göransson (Bengt.Goransson@it.uu.se) latest Nov 3, with a list of the group members’ names. Write “Medical Informatics” on the subject line.

**Step 2:** You must specify your assignment and get an approval before starting the assignment work. Also here, write an email to Bengt.Goransson@it.uu.se and specify your assignment, the application area, eventual contact persons and a few lines about how you plan to perform your assignment project. You will get a reply with an OK or some advice how to proceed. This should be done **latest Wednesday Nov 9.**

As the time for the assignment is rather short you should especially consider:

- It takes time to specify the objectives, to establish contacts, to book meetings etc. So start as early as possible!
- It is much better to study a very small application/system/problem and have time to analyse it in more detail. Do not try to look at larger systems. It is better to study a (very) small isolated part of a larger application or system.
- Focus on users, usability and benefits.

Supervision takes place during the lectures or after contacts with the teachers via visits, email or telephone. Contact Bengt Göransson or Bengt Sandblad if you have problems or questions.

**The written report - outline suggestions**

1. Background – Describe the application area and the system you study.
2. Problem description. – Describe the problem you find outgoing from the users’ perspective.
3. Describe the system under study in more detail.
4. Analysis of the usability. Describe the method, the analysis and the conclusions.
5. Describe your ideas for improvements of the system, how the usability problems could be solved. Give some preliminary descriptions of what the solution could look like. Motivate and try to evaluate your ideas.
6. Discussion.
7. References.

The exact outline must be made in accordance with the nature of the assignment.

**Assignment reports**

The presentation of your assignment work must be made both orally and in written form. The oral presentation is specified in the course schedule. The written report, in
paper or digital form, must be delivered at the same time as the oral presentation. The written report will normally be approx. 6-10 pages.