

Assignment for SASD Team Exercise – MGIS 301

Fall 2009

Due Date: Jan. 3, 2009 (9:00 AM) for electronic submission, presentations Jan. 4 & 6
Points: 10 (paper) + 5 (presentation)

Goal: The goal of this assignment is to provide a complete analysis, design and business case for a fictitious situation as described below. The assignment includes a written paper containing and detailing the complete analysis, design and business case for this situation, and a presentation of about 10 minutes in class of the major highlights. For this assignment, you can form teams of three to four persons.

Business Situation: At a university, crediting any course grade from another institution is being done by hand. This process involves the student approaching a designated faculty member of the department with a list of courses and his or her transcript, together with a petition form. The faculty member then decides on the crediting. This is based on his or her prior knowledge, and some old decisions kept on the personal computer. From this, a document with the relevant information (which course is credited to which) is being printed out for the student, who then transfers the whole package to the head of the department, and later on to the faculty council. After these decisions, the package is handed over to the registrar's office, and is included in the student's transcript by entering into the central system. The main problems with this process is the slow cycle time, as well as the low level of information for the students. Therefore the university aims at introducing a new information system to handle this. This will be based on a workflow management system with document management functionalities, which is going to be bought. There will also be the implementation of additional software components, for example allowing every student to see all prior rulings on course accreditation. The system will allow the student to hand in the petition electronically, and, if equal to a prior ruling, automated crediting without any further steps. For the faculty member, all student information like transcript, and also prior rulings will be available directly with the petition. The registrar's office will no longer need to manually input any accreditation, but the results will be transferred automatically to their system. Again, this interface will have to be implemented by the university itself.

Requirements: You are asked to design this information system:

- Conduct the analysis phase of the systems analysis and design procedure with regard to the accreditation information system. This includes especially problem and objectives understanding.
- Provide a business case for this information system. Identify all possible factors both for benefits and costs. In the business case, describe all of them, and try to quantify them, detailing how this quantification could have happened (actual numbers can be guessed at or made up, like for example hardware costs). Based on this quantification, aggregate the results for costs and benefits over an adequate time interval and give an overall assessment and recommendation. You can also include intangible benefits and strategic considerations in your final recommendation.
- Assume that the university has decided to go forward with the accreditation information system. Provide the logical design for the information system. Identify all logical design components (inputs, outputs, processes, database, procedures and

controls) clearly. This includes developing an ERD for the information system. Are there any physical design issues to might be encountered?

- Develop a process model for the main process of accreditation. Provide both a model for the as-is process, and also the process after implementation of the information system.

Handing in the assignment: One of the team members hands in the assignment using e-mail to <skoch@ku.edu.tr>. The e-mail should have a subject as follows: SASD. As attachment, include a single MS Word, Acrobat PDF or OpenOffice Writer file with the complete analysis, design and business case. The body should give the names and IDs of all group members.

Grading: Grading for the written part depends on the quality of the system analysis, design, and business case. For the presentation, grading depends on structure, clarity, manner of speech and adherence to time limit. For assignments handed in late, two points for the first day of delay will be deducted (resulting in maximum 8 points that can be achieved), three additional points for the next day (resulting in maximum 5 points that can be achieved), and after three days, no points will be given.