Global Information Systems

The Case Study (6): Development of an Asian-European Business Portal

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The Open Unified Process – Disciplines

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The Case Study

- After your graduation, you have founded and established a small R&D company in the field of Information Management and Software Engineering. Your focus is the development of web applications. The company is still small with 5 staff members with different responsibilities and competencies. You have decided that participating in European projects as a new field of business for your company.
- After checking the current calls for tenders by the European Commission, you have found an interesting announcement which seems to fit to your competencies and portfolio.

Task

- The call for tenders asks for proposals regarding the development of a European portal / business network for research and business cooperation with a certain region. The following functions and conditions are given.
- The portal shall improve cooperation between researchers in the region selected and Europe. It shall improve common research projects, publication and experience exchange.
- The portal should serve as an interorganizational knowledge management
 system, including functions to find, retrieve,
 distribute, publish, and evaluate knowledge. This
 covers both, documents as well as human
 expertise. The most important aspect is
 networking.

(Potential) Functions

- White pages: Search for researchers and potential cooperation partners by topic, interest, location, expertise or organization. This should be based on a database of people and ontologies for topics and expertise.
- The Resource archive shall contain documents, links, and any kind of resources on research activities. The resources 1) shall be related to the aforementioned ontologies and 2) can be tagged by the participants leading to a folksonomy. Additionally, people shall be enabled to comment and annotate resources for public and private use.
- Tagging: People and resources can be marked by tags. The tags should be presented in different formats (tag clouds, lists, etc.)
- Experience exchange: People shall be able to exchange their experiences about their research field but also about their cooperation.



Functions

- Culture database: One of the main aspects is the development of a database of cultures and cultural aspects. This covers the database design, implementation and providing initial countries for 1 European and 1 local country. The database shall be extensible to share experiences about own / other cultures.
- The portal should be available in different languages. In the initial version, English, French, Chinese and Japanese should be covered. The design should enable people to add their own version of the portal (e.g., in Korean or Finnish)
- The design should be adaptable initially, designs should be developed for the countries of the initial languages.

Functions

- You are free
 - to choose a country
 - to focus on functions which you consider meaningful
 - to convince the Commission of necessary changes



Evaluation criteria by the Commission

- Clarity and feasibility of the approach
- Project plan: schedule and staff
- Expertise, specifically on cultural aspects
- Business model (open source, re-use, ...)
- Cost
- Innovation: Use of new technologies



Process: Proposal Stage

- For the first stage, you will have to develop an initial proposal to meet the criteria of the call showing your main ideas regarding management and development. For this stage, you will have to elaborate an initial project outline which should cover at least the following aspects:
- Phases: Which phases are necessary for the full project (e.g., requirement analysis, design and development), how will they be realized.
- **Design ideas**: The proposal should clearly show which main ideas drive your concept. This is not yet a full design but it should show what to expect from your solution.
- Partners: You will have to decide whether you can do this development on your own or whether you will include partners. Two reasons for this are rather obvious: 1) You will need knowledge on regional languages and cultures; 2) The cost of the developed portal is a main evaluation criterion.
- Cost estimation: Based on your phases and partners, you should develop a cost estimation.
- Other aspects which give you a competitive advantage to your competitors should be shown.



Process: Proposal Stage

- Project planning: This should refine your initial planning, including the financial planning.
- Describe who will do which parts and how these parts are interrelated

Without the proposal, the course will not be graded!



Process: Final Stage

- Process plan: You should clearly describe all design and development processes necessary for a complete implementation. This plan could be based on the Open Unified Process.
- Competence profile. Describe who is involved in developing the profile and which competences those stakeholders should have.
- Communication plan: A communication plan should clearly show how you handle communication 1) between partners (in case you cooperate with other organizations) and 2) between test groups when testing your prototype.
- Design: You should clearly show the design of the portal meaning both functional and user interface aspects. This also covers issues like internationalization and localization, respectively opportunities to extend the initial solution. All design decision must be clearly explained.
- Cultural analysis: You should explain main aspects of the initial cultures addressed.
- Project planning: This should refine your initial planning, including the financial planning.
- Prototype: An initial prototype should be developed to show that you are able to implement your ideas.

 Other paragraphs deviation was a paragraphs deviately be university of Jyväskylä
- Other aspects clarifying your approach should be addressed when necessary.

Schedule

- 27.10.2010: Group building
- -16.11.2010: Preparing the proposal and ideas
 - Presentation of ideas
- 17.11.-12.12.2010: Elaboration of the solutions
- 14.12.2010 Final presentations, discussion, debriefing



Process: Proposal Stage

- 02.11.: Start
 - Define groups
 - Select region
- 09.11.: Concept
 - Distribute workload (process, design, ...)
 - Select region, get information on cultural aspect
 - Develop 5 use cases
- 16.11. Concept (2)
 - Develop Concept & Ideas
 - Prepare short presentation
 - Present!



Process: Finalization Stage

- 24.11. 07.12.: Refinement
 - Culture analysis
 - Adaptation mechanisms
 - Design
 - Prototype Implementation
- 14.12. Final Presentation
 - 10 minutes presentation
 - Slides
 - Prototype
 - Special features
 - 5 minutes Q&A



Grading

- The grade for the case study is calculated as following:
 - 30 % Proposal
 - 70 % Final concept / prototype
- The prototype will be graded based on the following criteria:
 - Completeness: The prototype covers the main areas of the concept
 - Methodology: The prototype is based on proven, validated concepts and takes the main concepts from the lecture into account.
 - Clarity: The design and development decisions are clearly explained.
 - Creativity: The prototype includes innovative functions and new ideas / technologies / approaches
 - Documentation: The concepts and prototypes are well documented and described
 - Presentation: The concepts are presented in an appropriate way.

Important notes

- Register for one group in Korppi
- If you decide not to do the course, unregister until 24.11.2010
- Exam: 50%, Case Study 50%
 - Both have to be passed



Now...

- Please find a group of 4-5 people
- Sit down and plan your process
- Questions can be answered any time

Have Fun!!!



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