LIMS Project

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Form groups

- Groups of 4 (3-5)
- I want the following information from each group:
  - Names, "personal numbers", e-mail addresses
  - Contact person ("project leader")

- Deadline for group formation:
  A week after course starts
Minpeng Zhu:
• Email: minpeng.zhu@it.uu.se
• Office: P1311
• Available for questions on a drop-in basis Friday 13:15-17:00.
Project development events

- Write project plan
- Weekly meeting with TA and internally
- Programming/coding
- Mid-term evaluation
- Hand in final report
- Present final presentation
Project plan

- Project plan deadline: Dates will be announced later.
- Project plan:
  - Motivation for your system
    - e.g. Why your system is needed? User group, age, etc
  - System function specification
    - “What functions, services your web application provides?”
  - A system architecture
    - Must include
      - Use cases diagram + text description
      - ER diagram + text description
      - User interface description
  - An implementation plan
    - Functions priority list
    - What time finish what
  - Group management
    - Task division, role assigned, etc.
  - Risks
    - Technical risk, time risk, etc.
Weekly meetings

- We will have a weekly 15 minute meeting for the project with each group, schedule 15 minute time slots with me
- You as a group are suggested to have at least weekly 15 minute long group meetings for the project

  • Discussion:
    - Tracking the actual project progress with project plan
    - What is next step?
    - How to help each other in order to cooperate better as a group?
Mid term report / presentations

- The date and time will be decided
  - Signup sheets for exact meeting times will be posted shortly
  - Exact time will be posted later
- We will talk about the progress of your project
Final presentation

- Presentations
  - Dates will be announced later
  - Presentation of your project
    - Usually, you decide what to talk
    - Presentation time is usually around 30 minutes per group (presenting + demo + answering questions)
  - Demonstration of a working solution
Final report

- A written report, you might consider at least the following points:
  - Motivation for your system
  - System function specification (What functions your web application offers?, etc)
  - System architecture
    - Use case model + text description
    - ER model + text description
    - Screen shot from user interface + text description for some user cases
  - System implementation and evaluation
    - Development tools.
    - Technical problems encountered.
    - Experience gained.
  - Testing
  - Security
  - Group management
  - Conclusion and future work
  - Reference
  - Appendix
    - Figures
    - Source Code
    - etc

- Final report deadline
  - To be announced
How to do it?

- Think of a system you want to see
- Think about the use cases
  - How will the service be used?
- Cut the work into pieces
  - User Interface, application code, database
- Assign pieces within the project member
- Use Test Driven Development
  - Test each piece (unit tests)
  - Test all pieces together (integration tests)
Rapid prototyping

- Make a simple prototype ASAP
  - More new ideas might come up

- Enhance the system functionality step by step.

- Important to show the web application working flow according to your user case diagram.

- Show the prototype to other project groups
  - Give feedback to each other