Overview

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Introduction

- Mondays 10:15-12:00 INF1 & INF3
- **Exercises:**
  - Done individually, not graded, *useful* for the exam and *project.*
- **Project:**
  - In a real world scenario you will apply techniques that you learn during the lectures (*learning by doing*),
  - Team work (max 3 students per team),
  - 3 phases, each graded separately
  - IIS grade = project*50% + exam*50%

Infrastructure

- 10 Linux machines (IIS server machines)
  - Java, MySQL, Ant, Axis2
- 4 accounts per machine
- 1 account per team only valid on a specific machine
- Use INF machines to access IIS machines via *ssh*!
- Feel free to use your personal machines
### Team

- **Project:**
  - Gleb Skobeltsyn (Phase 1)
  - Wojciech Galuba (Phase 2)
  - Heinz Stockinger (Phase 3)

- **Infrastructure:**
  - Ali Salehi

- **Exercises:** Sarunas Girdzijauskas

- **General inquires:**
  - Gleb Skobeltsyn, Heinz Stockinger

### Communication

- **During the project sessions, Mon10-12, INF1&3**
  - Headquarters in INF1 😊

- **Webpage:** check it regularly for updates
  - Isirwww.epfl.ch -> students -> iis
  - Please read it

- **Newsgroup:** epfl.ic.cours.IIS
  - Use it whenever you want to ask a question!

- **E-Mail:** personal questions and appointments.
  - Please add “[iis]” to the subject

- **Assistants’ office hours** – see the Web page
Exercises: do I have to do them?

- 4 exercises during the semester
- Not graded, but good to follow to understand the lectures
- Solutions are published on the Web page with 1 week delay
- You will have to solve similar problems in the exam...

Project
Project: Introduction

- 50% of the overall course grade => important
- Similar to real projects in many aspects
  - Good practical experience
- Learn (practice) new technologies
- Requires:
  - Collaboration and team work
  - Time investment
  - Tackling of practical problems
  - Keeping a tight schedule & reporting

Project: What is it about?

- In short: it is about managing (acquisition, storage, processing, publishing) of a real data about technical gadgets.
- Challenges you will have:
  - Design a database for a gadget shop
  - Crawl a Web site and fill the database with data
  - Design/Implement a Web service to offer gadgets to be exchanged with other teams
  - Interact with other Web services
  - Merge with other databases if necessary
Project: Grading

- Project is divided into 3 phases
- Each phase is graded separately
- Discussion: ~5 min presentation of your work
  - Affects the grade
- The overall project grade is
  \[ 40\% \times \text{Phase1} + 20\% \times \text{Phase2} + 40\% \times \text{Phase3} \]
- The report/deliverable deadlines are strict (see the Web page)

Project: Start

- You have to form a team of 3 people.
- Each team chooses a Web site on its own
  - Each team needs to have a different Web Site
  - Once you have chosen your Web site, post it on the newsgroup
    - First come - first served!
- The later you do it – the less freedom you have.

- You have to subscribe your team until
  - Monday, 19 March 2007, 11:30
Project: Phase 1

Tasks:
- Team formation
- To get familiar with the infrastructure
- To design and implement a database for the chosen Web site (database design/implementation)
- To implement a Web crawler to fill in the database (Java, regular expressions, SQL)
  - Between 200 and 1000 gadgets have to be collected with the Web crawler
  - Use several tables
- Deliverables: Report + code

Project: Phase 2

Tasks:
- Design/implement a “local” Java interface to your database
- Create a WSDL description of the service
- Create and deploy a Web service
- Deliverables:
  - WSDL + URL of working server
  - No report, no discussion in this phase
**Project: Phase 3**

- **Tasks:**
  - Create a Web service client to retrieve data from another team
  - Schema integration
  - Data exchange and storage in own service

- **Deliverables:**
  - Final Report
  - Fully working code (Web service)

### Milestones

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<td>Advanced SQL</td>
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**Fri 15-06-2007**  Phase 3 due (17:00)

**Mon 18-06-2007**  Final project discussion (8:15-12:00 INF1)

*Milestones are hints for you to organise your work*

*Deliverables are hard deadlines*
General Recommendations

- Use forum (newsgroup) whenever possible
- Read the instructions on the Web site carefully
- Read the documentation (MySQL, Axis2, etc.)
- Respect the deadlines:
  - any delay will affect your grade
- Be inventive!
  - Non standard solutions, solving extra problems, constructive feedback is encouraged. Get bonuses!

We hope the experience you will gain during the course will be useful.

Good luck!