Overview

1. Introduction
   - Infrastructure
   - Team
   - Communication

2. Exercises
   - Do I have to do them?

3. Project
   - What is it about?
   - Grading

4. Project outline
   - Start
   - Phase 1
   - Phase 2
   - Phase 3
Introduction

• Wednesdays 10:15-12:00 INF1

• 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

• Linux machines (IIS server machines)
  – Java, MySQL, Ant, Axis2
  – lsir-cis-pcX

• x 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

• Technical questions etc.
  – Toufic Saad (Student Assistant)

• General inquires:
  – Heinz Stockinger

Communication

• During the project sessions, Wed 10-12, 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
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 might have to solve some related 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
  – Creating a database for an airline company
  – On-line purchase of tickets
• Challenges you will have:
  – Design a database for an airline company
  – Fill the database with data
  – Design/implement a Web service for
    • your company (airline and consumer)
    • A bank (for money transactions)
  – Interact with other Web services
Project: Grading

- Project is divided into 3 phases
- Each phase is graded separately
- **Discussions:**
  - Affects the grade
- **Project meetings**: for design

- The overall project grade is
  \[ 35\% \times \text{Phase1} + 25\% \times \text{Phase2} + 40\% \times \text{Phase3} \]
- The report/deliverable deadlines are **strict** (see the Web page)
Project: Start

- You have to form a team of 3 people.
- Each team creates an airline company
  - You can decide what your company sells

- You have to subscribe your team until
  - Monday, 25 February 2009, 11:30
  - Send team information via e-mail to your lecturer
    - Needs to include all email addresses of team members

Project Phase 1: Create airline company

- Tasks:
  - Team formation
  - To get familiar with the infrastructure
  - To design and implement a database for the chosen company (database design/implementation)
  - To implement a client tool to fill in the database (Java, SQL)
    - About 100 flights should be provided
    - Use several tables
- Deliverables: Report + code
Project: Phase 2
Design/prototype reservation place

- Interactive phase
  - Project meeting + interface discussion
- Tasks:
  - Design and propose interfaces (WSDL) for:
    - Company for trading
    - Bank (for money transfer)
  - Create and deploy a prototype Web service
  - Design and prototype trading interface (Web interface)
- Deliverables:
  - WSDL + prototype server

Project: Phase 3
Implement/deploy ticket sales place

- Tasks:
  - Create a Web service client to retrieve data from another team and bank
  - Implement trading interface
    - Data exchange and storage in own service
- Deliverables:
  - Final Report
  - Fully working code (Web service)
  - Final ticket selling game
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.