Semantic Web Technologies
Introduction to Student Projects

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Student Projects

• Goals
  – Gain more practical experience with the Semantic Web
  – Become familiar with existing datasets
  – Understand possibilities and limitations of Semantic Web datasets

• Expectation
  – Choose one or more (preferably more) Semantic Web datasets
  – Build an interesting application with it
Interesting Applications

• Just a few possible examples
  – Quiz applications
  – Mobile apps with local information
  – Expert systems for a special domain
  – …
Procedure

• Teams of three students
  1. realize a semantic web project
  2. write 10 to 12 page summary of the project and the methods employed in the project
  3. present the project results to the other students

• Finding a team
  – use, e.g., the discussion forum in ILIAS

• Final mark for the course
  ■ will be entirely based on the exam
  ■ the project, report, and presentation are a mandatory requirement!
Requirements

- The project you develop should
  - solve a real world task for end users
  - use one or more semantic web datasets
  - involve some processing beyond mere display of the data
Project Outlines

• 2-3 pages (sharp!) without title and TOC pages, DWS master thesis layout
• due Sunday, October 14th, 23:59
• send by e-mail to Sven and Heiko
• answer the following questions:
  – What is the goal of the application you are going to build?
  – What are the example results you expect?
  – What datasets are you planning to use?
  – What techniques are you going to use?
  – How do you plan to evaluate your results?
Coaching Sessions

• Held during lecture slots (i.e., Tuesdays, noon)
• We will give you tips and answer questions concerning your project
• Please send us an email that you want to attend a coaching session
  – until Sunday night
  – including the questions that you like to discuss
• We will assign you a time slot afterwards and inform you about the slot via email
Project Reports

• 10-12 pages (sharp!) without title and toc pages
• due Friday, November 30th, 23:59
• send by e-mail to Sven and Heiko
• describe your solution including the steps to get there:
  1. Application domain and goals
  2. Datasets used
  3. Techniques used
  4. Example results
  5. Known limitations
  6. Lessons learned

• Requirements
  ■ You must use the DWS master thesis layout
  ■ Please cite sources properly. Preferred citation style [Author, year]
Project Reports

• Application domain and goals
  – Which users are targeted?
  – Which user problems are solved?
  – Which user information needs are addressed?

• Datasets used
  – Which datasets does the application use?
  – How are they accessed (SPARQL, local)?
  – How do you combine information from different datasets?

• Techniques used, e.g.
  – Reasoning
  – Search
  – external services
• Example results
  – What outcomes does the application provide?
  – How is some user query answered?

• Known limitations
  – In which domains does the application not work?
  – Are there queries which cannot be answered?
  – **Why**?
  – How could you overcome those limitations, given more time?

• Lessons learned
  – Which challenges did you face?
  – What were the biggest obstacles?
  – What would you do differently next time?
Deadlines at a Glance

• Submission of project work proposal
  – Sunday, October 14th 23:59

• Submission of final project work report
  – Friday, November 30th, 23:59

• Final presentation
  – Tuesday, December 4th

• Final exam
  – Wednesday, December 12th
Questions?