Knowledge Graphs
Introduction to Student Projects

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Student Projects

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

• Expectation
  – Choose one or more (preferably more) KGs
  – 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 to four students
  1. realize a semantic web project
  2. write a 6 to 8 page summary of the project and the methods employed in the project
  3. present the project results to the other students

• Finding a team
  – see previous e-mail (ILIAS forum, Spreadsheet)

• 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 Knowledge Graphs
  – 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 8th, 23:59
• send by e-mail to Sven (sven.hertling@uni-mannheim.de)
• 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?
Project Reports

• 6-8 pages (sharp!) without title and toc pages
• due Sunday, December 10th, 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
  ■ Use the DWS master thesis layout
  ■ Please cite sources properly
Project Reports

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

- Datasets used
  - Which KGs does the application use?
  - How are they accessed (SPARQL, local)?
  - How do you combine information from different sources?

- Techniques used, e.g.
  - Reasoning
  - Search
  - external services
Project Reports

• Example results
  – What outcomes does the application provide?
  – How is are some user queries 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 8th 23:59

• Submission of final project work report
  – Sunday, December 10th, 23:59

• Final presentations
  – Tuesday, December 5th, lecture slot
Questions?