Managing Data on the World-Wide Web (236369)

About the Course

Staff
- Lecturer: Elad Kravi
  - Lectures: Wednesday 8:30 – 10:30
  - Reception hour: Wednesday 11:30-12:30
- Tutorial (Wednesday 10:30):
  - Yoav Nahshon (TA in charge)
  - Reception hour: Wednesday 12:30-13:30

Goals
- Understand how the World-Wide Web "works"
- Learn how to manage data on the Web
  - Handle concurrency
  - Handle heterogeneity
  - Cope with distributed systems and with client-server programming
- Get to know Web technologies and the principles behind them
- Learn about the paradigm shift from the ordinary Web to the Semantic Web
- Learn about Knowledge-Graphs and their potential usages in web applications
- Learn advanced topics in Java Programming
- Experience with implementing end-to-end website

Prerequisites
- We do not require prerequisites other than the basic database course
- Hence, some of the topics being taught will overlap other courses, e.g.,
  - Computer Networking
  - Concurrency handling and threads
  - Advanced topics in Java
Lectures

- Attending the lectures is not mandatory
- We will put all the relevant material in the Web site of the course
- However, make sure you remain “connected”
- The tutorials will include new material (material that will not be in the lectures)

Assignments and Grade

- Assignments:
  - HTML and Javascript (5%)
  - Getting to know Java (5%)
  - Proxy servers (19%)
  - Web servers (19%)
  - Final Exercise + Presenting it (52%)
- There is no exam
- However, in the presentation of the final exercise you will be required to know the material of the course
- Attending the lectures and tutorials can help you better understanding the material
- Final grade = (gr(#1) < 55) ? gr(#1) : 0.05*(gr(#1)+gr(#2))+0.19*(gr(#3)+gr(#4))+0.5*gr(#5)

About Assignments

- Exercises will require hard work
- Late submission: a penalty of 5 points per day
  - In any special case (e.g., Miluim) please contact the TA in charge
- Assignments should be submitted in pairs (except for Exercise 1)
- You may
  - Talk to other student about the assignment
  - Look for information on the Web (recommended!)
- You should not
  - Look at the code of other students in the course
  - Copy code from other students or outsource your assignment
  - Let your partner do all the work
- HW Policy under the course website

Using the Web

- The World-Wide Web is an important source of information in this course
- Learning how to search for helpful technological information is an important skill that we hope to improve, e.g., try searching for error codes when you encounter errors that you don't know how to resolve
- Use the Web to search for answers to technical points that we did not have time to cover in the lectures
- Did not have time to cover in the lectures
- Did not know (no one knows any little detail of every technology)

Using Open Source Software

- All the software that we will use in this course is an Open Source – you may download it from the Web and use it for free
  - Allows you to work from home
  - Enables you to use what you have learned after the end of the course

Feedback

- We always want to improve ourselves
- Your feedback is valuable to us and we would like to hear it during the course and not just at the end of the course
  - Are assignments too easy or too difficult?
  - Are the lectures too technical or not enough technical?
  - Are there any suggestions how to improve the course?
We hope you will enjoy the course and find it useful!