Selected topics in distributed computing

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Class organization

- Lectures
  - 3 chapters of 4 lectures + 1 wrap-up and evaluation
  - Final mark = average of 3 evaluations
- Practice
  - On your personal time
- Questions
  - During classes or at michael.mrissa@upr.si

Our objectives and agreement

- Attendance is highly recommended
  - Be on time, be focused
  - Raise your hand to ask for a question
  - Wait for me to tell you when class is over (or ask)
- Active participation
  - Questions related to the contents, clarification
  - Suggestions or discussion of alternatives
  - Students contribute to building the support
- Objectives
  - Get some theoretical knowledge about the topic
  - Get some practical understanding to reuse in the future

Part 1 : Web applications

- Week 1 : Principles of the Web and HTTP

- Week 2 : REST architectural style

- Week 3 : Architecture of Web applications

- Week 4 : Some design patterns

- Week 5 : Wrap-up and evaluation

Part 2 : Web services

- Week 6 : Web services - SOAP and REST

- Week 7 : Web service description - WSDL

- Week 8 : Data syntax : JSON and XML

- Week 9 : Service discovery and composition

- Week 10 : Wrap-up and evaluation

Part 3 : Rich apps in Javascript

- Week 11 : Javascript and the DOM

- Week 12 : Asynchronous programming

- Week 13 : AJAX - Websockets

- Week 14 : Callbacks and promises

- Week 15 : Wrap up and evaluation