Final Projects: A Specialised Backchannel Application

A Backchannel is a medium of communication that is used alongside a primary activity or communication. Backchannels are often used in conferences or education, where online communication tools are used to talk about the speaker or topic while a presentation is held. But Backchannels can also be used in different scenarios:

- during a sport event visitors and viewers could discuss about the quality of the referee, or bet on the outcome of the match
- during a political debate (e.g. a presidential debate in the U.S.) viewers could fact check the statements made by the politicians and possibly provide evidence for or against them
- during and beforehand a natural phenomenon like a solar eclipse, enthusiasts could share the best lookout points or relevant weather data
- ...

Team assignment: With your Team, you will design and implement a Backchannel application for a specific scenario you will briefly describe.

- The software should provide basic user management (i.e. registration and login), while authentication, password management and addressing security issues are not necessary.
- The software should provide at least one non-trivial form of interaction related to the project’s scenario, apart from submitting text messages. Opening bets and betting in the sport event example are a form of non-trivial interaction.
- The software should be well designed, such that it could be reused to build other backchannel applications.

Elaborate the following questions:

- Which kind of data should be distributed among the users for your scenario?
- Which forms of interactions does your software provide?
- What kind of user interface will you provide? E.g. a Web-application, a command line interface, a native GUI,...
- Which Scala specific paradigms and structures will you use?

Tasks:

- Form teams of 3.
- Until the 19 of December, hand in a summary of your project via email (niels.heller@ifi.lmu.de), containing:
  - a list of all team members
  - the name of your project
  - a short description of your project’s scenario and of the scenario-related non-trivial backchannel interactions to be implemented in your project, answering all of the aforementioned questions.

Alternative Subjects: If you have an idea for an alternative project which you and your team want to realise in Scala, you can contact me or hand in a regarding project description until the 18th of December. Note that your project should not be simpler than what is suggested above. All groups will receive short feedback notice until 21st of December.

Oral Examination:

- Duration: 45 Minutes
- Dates: 22th and 23th of February between 13:00 and 18:00.
- Registration: The registration is open from 12.5.2016 until 1.11.2017. Send a registration mail to sekretariat@pms.ifi.lmu.de containing the participants of your team and the respecting matriculation numbers. Use the subject line “registrierung scala” followed by the names of your team members. If there are restrictions because of other examinations include them also in the mail. You will receive your examination time the following days.