Distributed Systems 2017 – Open Project

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Open Project

- Develop your own distributed application
  - Whole project life cycle: Idea → Development → Presentation
  - Restrictions:
    - <u>Distributed</u> application
    - <u>Android</u> must be involved

- New groups of 6 members
  - Ideally merge 2 groups
  - Register new project groups in submission system

Schedule

03.11.2017   Project start

17.11.2017   Deadline project proposal

15.12.2017   Deadline presentation slides, project logo

17.12.2017   Deadline code

18.12.2017   Presentations and demo session

- Submissions via submission system

Project Proposal (1)

- ## Project description and planning
  - ### Project idea
    - Problem statement, application scenario, motivation, ...
  - ### System overview, system architecture, components
    - Distributed system components and their interaction
  - ### Requirements
    - Hardware, software (e.g., libraries, frameworks), 3rd party services, ...
  - ### Project plan
    - Work packages, schedule, assignment to team members

- ## Use Latex (template provided)
  - Length: 3-4 pages

Project Proposal (2)

- Challenges
  - Try to identify the challenges of your project
    - Complex problem to solve → innovative solution approach
    - Complex implementation → good hw/sw expertise required
    - …

- Project should already be started when proposal is written
  - The further advanced the project is, the better you will find the challenges

Project Presentation (1)

- 1-minute madness
  - Presentation is limited to 1 minute (<u>hard limit!</u>)
  - Focus on selling your idea
    - What does your App do?
    - Why should someone use it?

- Hints:
  - Practice to stay within one minute
  - One minute is very short!
    - Complications might cost you your minute. Simple is better.

Project Presentation (2)

- All presentations will be collected and prepared by us

- Submission format: PDF file
  - PowerPoint slides might have formatting issues

- Videos are in general discouraged
  - On your own risk. We cannot guarantee that they will work.

Demo Session

- Demo session will follow the 1-minute madness

- Similar to an exhibition booth
  - Possibility to discuss with others and answer questions

- Inform us early enough about any special needs
  - E.g., need Internet for your demo?

- All students are required to participate to be graded
  - Contact us in case of schedule conflicts

Project Name and Logo

- Demo session will take place in the CAB Foyer
  - Logo and name for big screen
  - Name should be reasonably short

- Prepare a project logo
  - Square dimensions
  - Resolution should be high enough to fill a slide
  - Logo should contain project (App) name
  - Submit via submission system

Grading

- Project proposal
- 1-minute madness presentation
- Project
  - Complexity
 - Implementation
  - Innovation

Deliverables
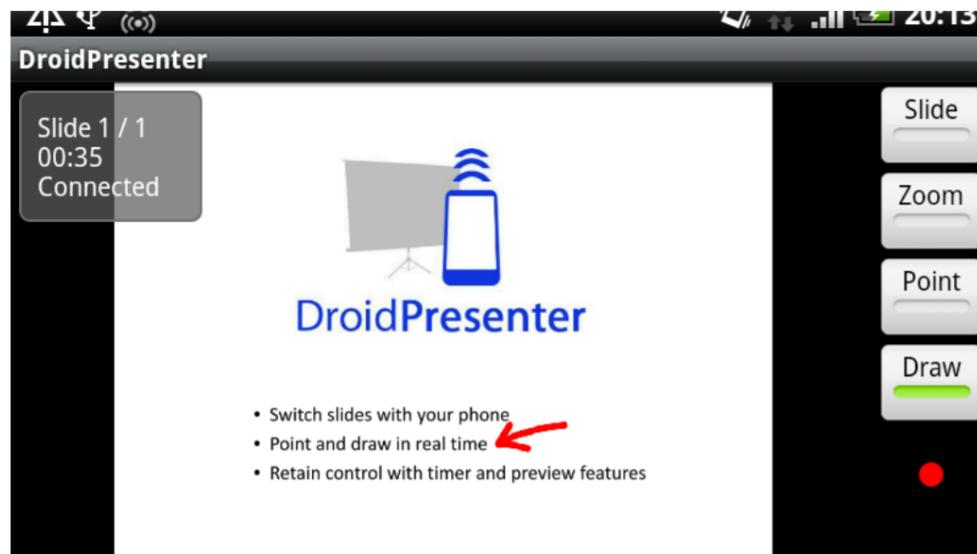
- ## Project proposal
  - PDF format
  - Deadline: 17 November 2017 11:59 p.m. (midnight)

- ## Presentation slides, project logo
  - PDF format (slides), PNG format (logo)
  - Deadline: 15 December 2017 11:59 a.m. (noon)

- ## Code
  - ZIP archive
 - Deadline: 17 December 2017 11:59 p.m. (midnight)

Some project ideas…

Multimedia
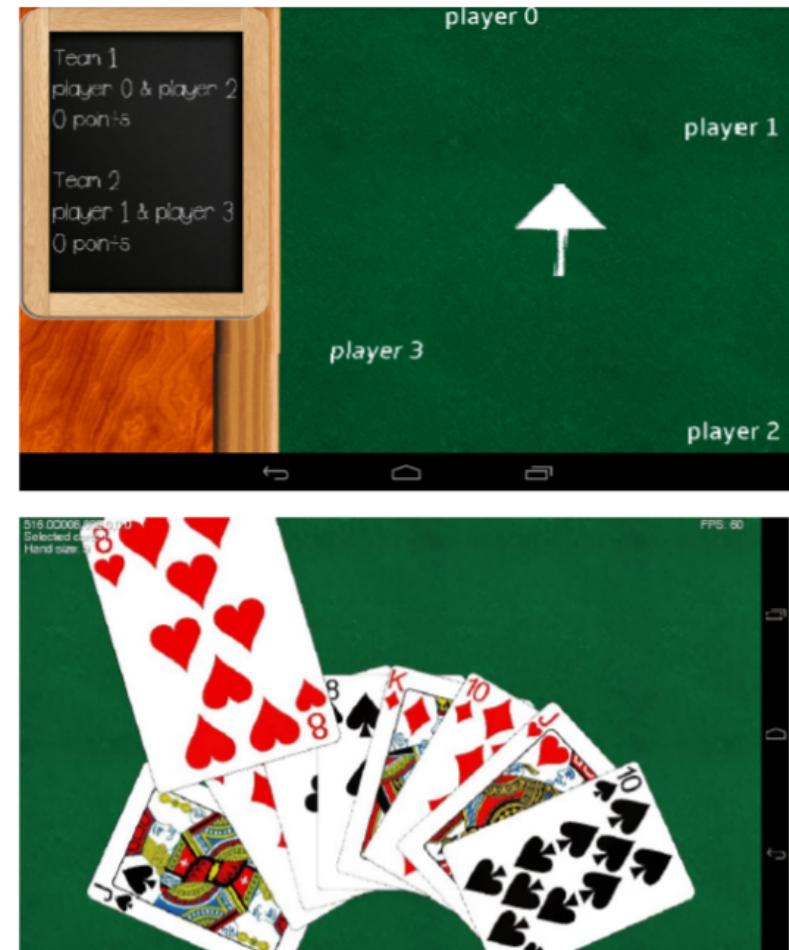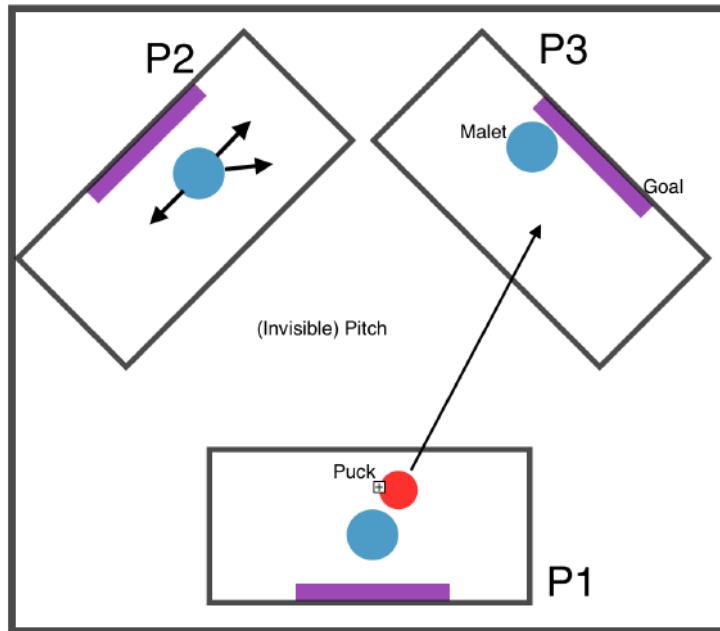
- Music players
- Presenters

symphoney

Games

- Airhockey
- Jass

Consensus problem

- Shopping lists
- Lunch decisions
- Calendars

Happy programming!