Software Engineering II
Introduction and Organization

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Prof. Plattner, Dr. Uflacker
Enterprise Platform and Integration Concepts Group
Agenda

1. High-level Overview of SWT2
2. Organization
3. Project
4. Basic IT Infrastructure
5. Lectures
6. Literature
High-level Overview of SWT II
High-level Overview of SWT II
High-level Overview of SWT II
Organization

Prerequisite
- Undergraduate program
- Softwaretechnik I

Class
- 4 SWS (~8h work per week including lectures)
- 6 ECTS credit points (graded)

Modules
- Business Process & Enterprise Technologies
- Operating Systems & Information Systems Technology
- Software Architecture & Modeling Technology
Important dates
- Enrollment until October 27, 2017
- Preparation exercise starts today
- Project starts November 10, 2017

Lectures
- Friday, 11:00 – 12:30, HS3
- Friday, 13:30 – 15:00, HS3

Web
- [https://hpi.de/plattner/teaching/winter-term-201718/softwaretechnik-ii.html](https://hpi.de/plattner/teaching/winter-term-201718/softwaretechnik-ii.html)
Organization

Responsible
- Dr. Matthias Uflacker (matthias.uflacker@hpi.de)

Teaching Team
- Arian Treffer (arian.treffer@hpi.de)
- Christoph Matthies (cristoph.matthies@hpi.de)
- Keven Richly (keven.richly@hpi.de)
- Ralf Teusner (ralf.teusner@hpi.de)

Tutor
- Tobias Dürschmid (tobias.duerschmid@student.hpi.de)
Completion of the introductory exercise is mandatory.

- 30%: Oral exam (written exam if #students >> 40)
- 45%: Usage of presented methods and concepts
  - Scrum and team work
  - Behavior- and Test-driven development
  - Usage of Source Code Management tools
- 25%: Software development results (team mark)

For grading, POs are considered one team.
To pass the course, you have to pass each category.
Learning Targets

- Git
- Scrum
- BDD
- TDD
- time-management
- Rails
- Deployment
- requirements-prioritization
- multi-team-setups
Working in Teams

Break down of people into teams of 7

Each team

- 1 Product Owner (PO)
- ½ – 1 Scrum Master (SM)
- Several team members

Questions

- Who is not in the 5th semester?
- Who is not an HPI student?
Working in Teams

- Mail your team choice to swt_17_orga@lists.myhpi.de
  - Until Sunday, October 29
  - Who will be PO and SM?
  - Three suggestions for weekly meeting

- POs, mail us suggestions for first customer meeting
  - Between October 30 and November 3
Working in Teams

Soon: special teams for special meetings
- Scrum of Scrums (SoS)
- Planning of Planning (PoP)

Addition from the teaching team for each group
- Customer (Ralf, Keven)
- Chief product owner for tough decisions (Arian)
- Tutors as Scrum consultants
Content of the Project

Software engineering assignment
- Programming framework: *Ruby on Rails 5 on Ruby 2*
- Minimal core is provided
- Results will be open source

Focus
- Functionality
- Avoiding “patchwork” (UI, Workflows, Data)
- Maintainability of the Code Base (Tests, Quality, etc.)

So what’s the topic?
Project: Sport Portal
Project: Sport Portal

Build a portal that allows users to manage tournaments and leagues.
IT Infrastructure - Open Source!

Infrastructure

HuBoard
GoogleCalendar
GitHub
Mailing-Lists
CodeSchool
Travis-CI
Heroku
CodeClimate
Gernasium
Communication Channels

Mailing List
- swt2_17@lists.myhpi.de
- Important announcements

Calendar
- https://www.google.com/calendar/embed?
  src=hpiswt2%40gmail.com&ctz=Europe/Berlin&mode=AGENDA
- For all formal meetings

Slack
- Team discussions
- Strongly recommended over Facebook, Skype, ...

All links can be found on the web site.
Please sign up until Oct 27!
Lecture supports project
- Rails Intro
- Project Intro
- Scrum and multi-team settings
- Project infrastructure in detail
- BDD & TDD (in Rails)
- Code Review, Tool presentations, Process Improvements
- Deployment
- Guest Lectures (Industry)
To get started in Rails...

- 3 weeks for a tutorial exercise
SWT2 Schedule

LECTURES
- October 20
- October 27
- November 10
- December 1
- December 15
- January 19
- February 9

PROJECT
- November 10: Kick-Off
- Nov 13 – Nov 17: Begin of Sprint 1
- Nov 27 – Dec 1: Begin of Sprint 2
- Dec 11 – Dec 15: Begin of Sprint 3
- December 15: Intermediate Presentation
- Jan 15 – Jan 19: Begin of Sprint 4
- Jan 29 – Feb 2: Begin of Kanban Week
- February 9: Final Presentation
**SWT2 Schedule**

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**Exercise**  
**Kick-Off**  
**Sprint 1 (2 weeks)**  
**Sprint 2 (2 weeks)**  
**Intermediate Presentation**  
**Sprint 3 (3 weeks)**  
**Sprint 4 (2 weeks)**  
**Kanban Week**  
**Final Presentation**
General literature

- Swicegood, T.: Pragmatic Guide to Git (P3.0), 2012 (ebook)
- Rappin, N.: Rails Test Prescriptions, 2012
- Rasmusson, J.: The Agile Samurai (P4.0), 2012 (ebook)
- Pichler, R.: Agile Product Management with Scrum, 2010
- Cohn, M.: Succeeding with Agile, 2012
- Sommerville, I.: Software Engineering, 2004

Ebooks will be made available for chosen books
Introduction and Organization

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Questions?

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