Introduction and Organization

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Prof. Plattner, Dr. Uflacker
Enterprise Platform and Integration Concepts group

Software Engineering II
WS 2016/17
1. High-level Overview of SWT2
2. Organization
3. SWT2 Project
4. Basic IT Infrastructure
5. SWT2 Lecture
6. Literature
High-level Overview of SWT II
Prerequisite to SWT2

- Undergraduate program
- Softwaretechnik 1

Class

- 4 SWS (~8h work per week including lectures)
- 6 ECTS credit points (graded)
Important dates
- Enrollment until October 29, 2016
- Preparation exercise starts today
- Project starts November 14, 2016

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

Web
- https://hpi.de/plattner/teaching/winter-term-201617/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)

Tutors
- Alexander Ernst (alexander.ernst@student.hpi.de)
“Prüfungsnebenleistung”
- Introductory exercises (mandatory)

Grading
- 30%: Oral exam (written exam if #students >> 40)
- 45%: Usage of presented methods and concepts (team mark)
  - 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.

Questions?
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Learning Targets

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

Break down of people into teams of 7
Each team
- 1 Product Owner (PO)
- ½ – 1 Scrum Master (SM)
- Several team members

Mail your team choice to swt2016_orga@lists.myhpi.de
- Until So, October 30
- Who will be PO and SM?
- Three suggestions for weekly meeting

POs, mail us suggestions for first customer meeting
- Between October 31 and November 4
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
Software engineering assignment

- Programming framework: *Ruby on Rails 4 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?
HPI Workshop Management

Build a portal that allows HPI students and employees to manage participants for workshops at HPI.
IT Infrastructure – Open Source!
Communication Channels

Mailing List
- swt2-2016@lists.myhpi.de
- Important announcements

Calendar
- For all formal meetings

Slack
- https://swt2-2016.slack.com
- Team discussions
- Strongly recommended over Facebook, Skype, ...

All links can be found on the web site.
Please sign up until Oct 30!
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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)
Rails Exercise

To get started in Rails...

- 3 weeks for a tutorial exercise
SWT2 Schedule

LECTURES
- October 21
- October 28
- November 11
- December 2
- December 16
- February 10
- Guest lectures tba

PROJECT
- November 11: Kick-Off
- Nov 14 – Nov 18: Begin of Sprint 1
- Nov 28 – Dec 2: Begin of Sprint 2
- Dec 12 – Dec 16: Begin of Sprint 3
- December 16: Intermediate Presentation
- Dec 19 – Jan 1: Christmas Break
- Jan 16 – Jan 29: Begin of Sprint 4
- Jan 30 – Feb 3: Begin of Kanban Week
- February 10: 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
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