



Introduction and Organization



- 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





Organization



Prerequisite to SWT2

- Undergraduate program
- Softwaretechnik 1

Class

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

Organization



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 (<u>matthias.uflacker@hpi.de</u>)

Teaching Team

- Arian Treffer (arian.treffer@hpi.de)
- Christoph Matthies (cristoph.matthies@hpi.de)
- Keven Richly (<u>keven.richly@hpi.de</u>)
- Ralf Teusner (<u>ralf.teusner@hpi.de</u>)

Tutors

■ Alexander Ernst (<u>alexander.ernst@student.hpi.de</u>)





Grading



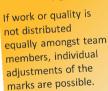
- "Prüfungsnebenleistung"
- Introductory excercises (mandatory)

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



e-management Rails requirements-prioritization multi-te

Working in Teams



Break down of people into teams of 7

Fach 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
- è 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
- è POs, mail us suggestions for first customer meeting
 - □ Between October 31 and November 4

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 4* on *Ruby 2*
- Minimal core is provided
- Results will be open source

Focus:

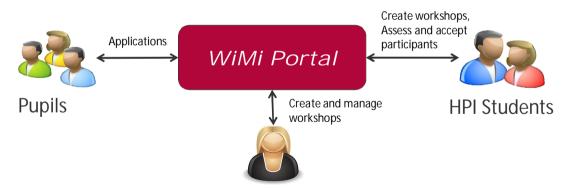
- Functionality
- Avoiding "patchwork" (UI, Workflows, Data)
- Maintainability of the Code Base (Tests, Quality, etc.)

So what's the topic?

HPI Workshop Management



Build a portal that allows HPI students and employees to manage participants for workshops at HPI.



PR Department

IT Infrastructure - Open Source!



Infrastructure

HuBoard GoogleCalendar



Communication Channels



Mailing List

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

Calendar

- https://www.google.com/calendar/embed?src=hpi.swt2 %40gmail.com&ctz=Europe/Berlin&mode=AGENDA
- 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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SWT2 Lecture



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

Literature



General literature

- Ruby, S.; Thomas, D.; Hansson D. H.: Agile Web Development with Rails 4, 2013 (ebook)
- 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
- Larman, C.; Vodde, B.: Scaling Lean & Agile Development, 2009
- Ludewig, J.; Lichter, H.: Software Engineering, 2006
- Sommerville, I.: Software Engineering, 2004

Ebooks will be made available for chosen books

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