



Introduction and Organization

Thomas Kowar

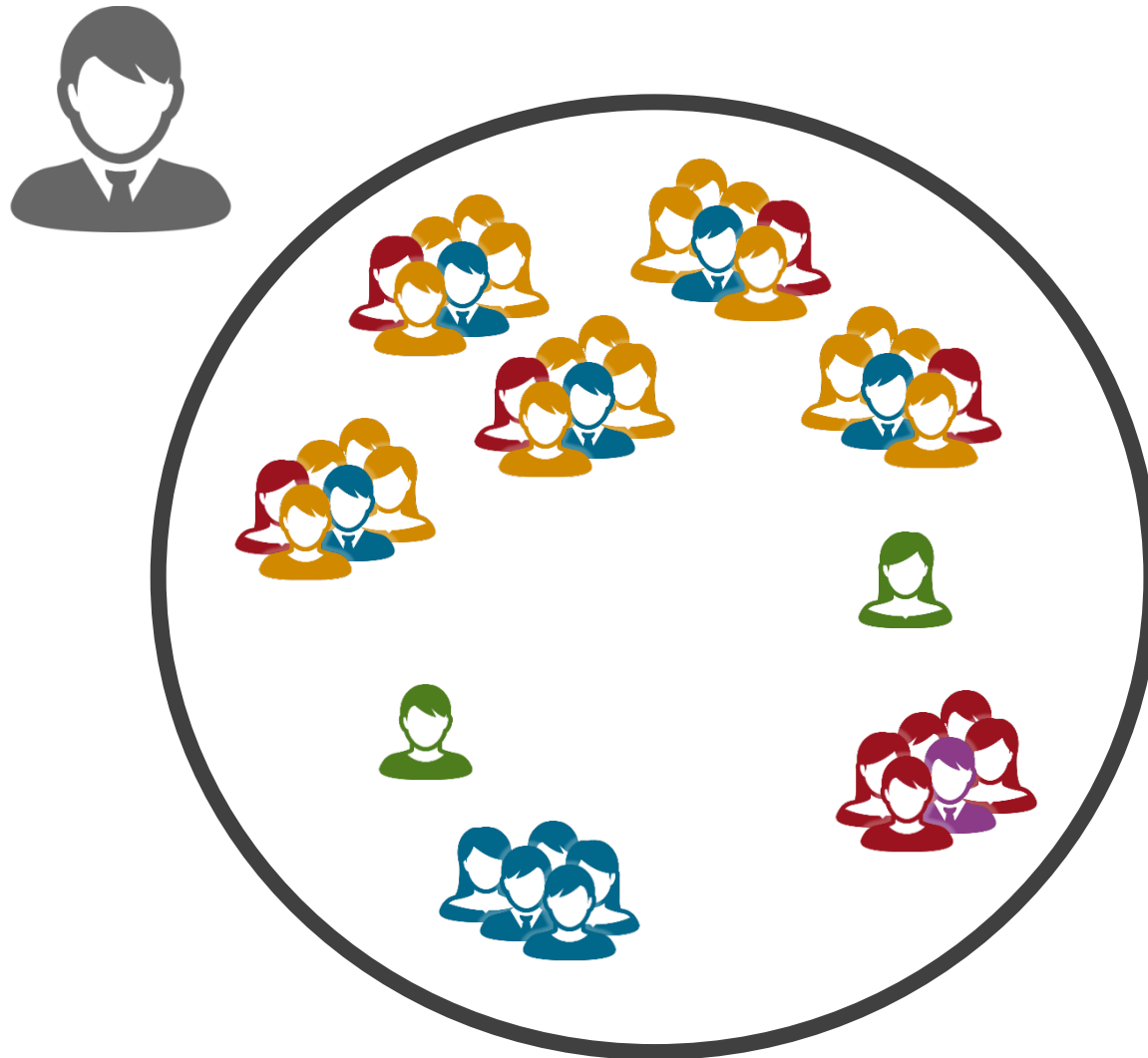
Software Engineering II
SS 2015/16

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

roduction and Organization

- 1. High-level Overview of SWT2**
2. Organization
3. SWT2 Project
4. Basic IT Infrastructure
5. SWT2 Lecture
6. Literature

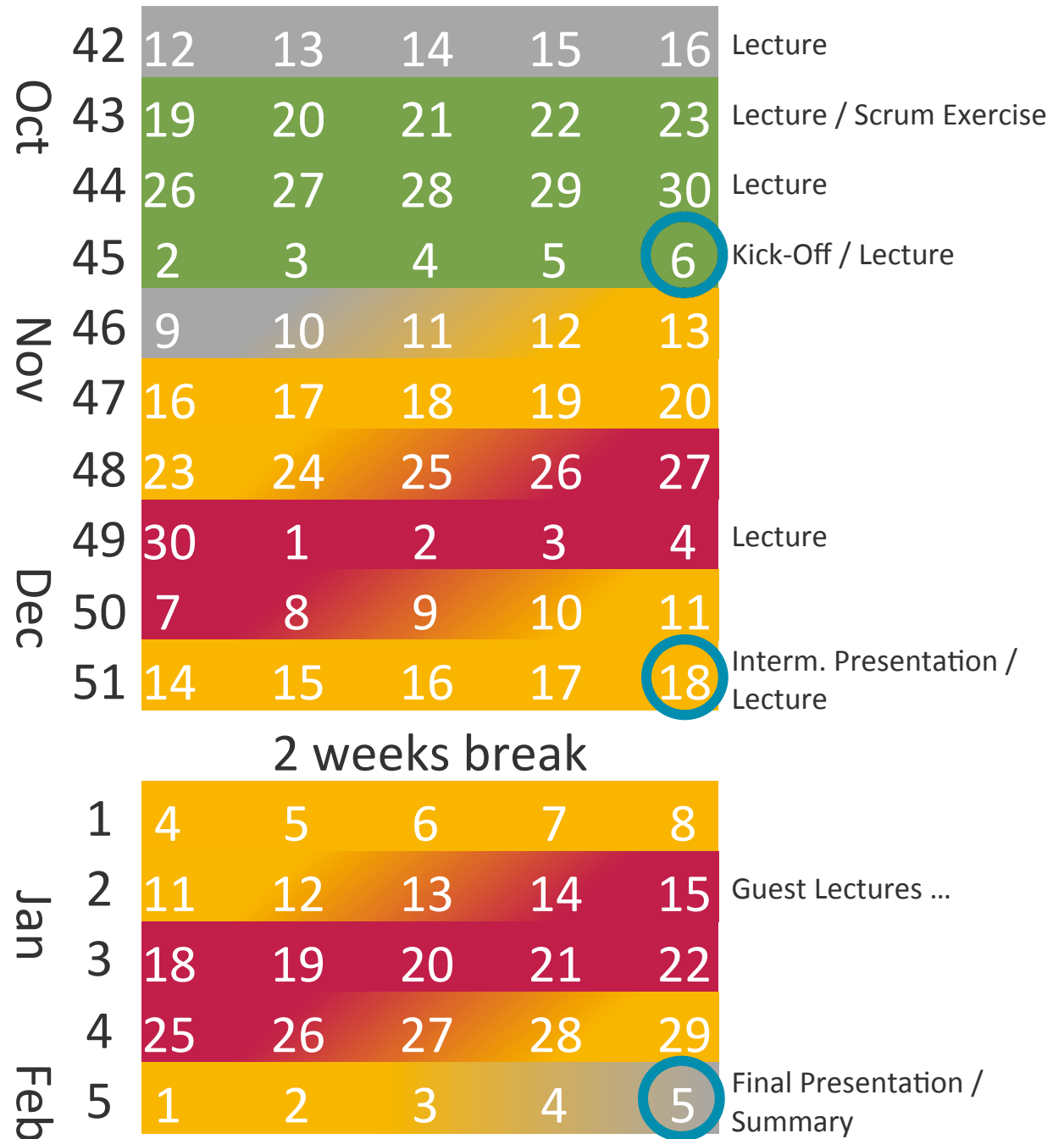
High-level Overview of SWT II



Schedule

- Exercises
- Kick-Off presentation
- Sprint 1 (2 weeks)
- Sprint 2 (2 weeks)
- Intermediate presentation

- Sprint 3 (3 weeks)
- Sprint 4 (2 weeks)
- Kanban Week
- Final presentation
- Exam (date tba)



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 23, 2015
- Preparation exercise starts today
- Project starts November 6, 2015

Lectures

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

Exercises: Block

Web

- <https://hpi.de/plattner/teaching/winter-term-201516/softwaretechnik-ii.html>

Organization

Responsible

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



Teaching Team

- Arian Treffer (arian.treffer@hpi.de)
- Thomas Kowark (thomas.kowark@hpi.de)
- Keven Richly (keven.richly@hpi.de)
- Ralf Teusner (ralf.teusner@hpi.de)



Tutors

- Dustin Gedlich (dustin.gedlich@student.hpi.de)
- Jannik Podlesny (nikolai.podlesny@student.hpi.de)

Grading

“Prüfungsnebenleistung”

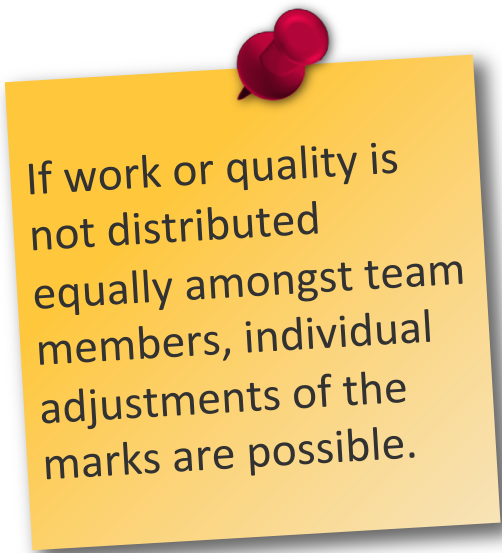
- Introductory exercises (mandatory)

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



A word cloud of learning targets. The words are arranged in a roughly rectangular shape. The words include: multi-team-setups (vertical, green), Git (red), Scrum (green), Deployment (vertical, green), time-management (yellow), Rails (green), TDD (yellow), BDD (red), requirements-prioritization (dark red), and Scrum (green).

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

Working in Teams

Break down of people into **teams of 7**

Each team

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

Questions

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

➔ Mail your team choice to swt2_orga@lists.myhpi.de

- Until **Mo, October 26**
- Who will be PO and SM?

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

- 1 customer (Ralf)
- 1 chief product owner for tough decisions (Keven)
- 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:

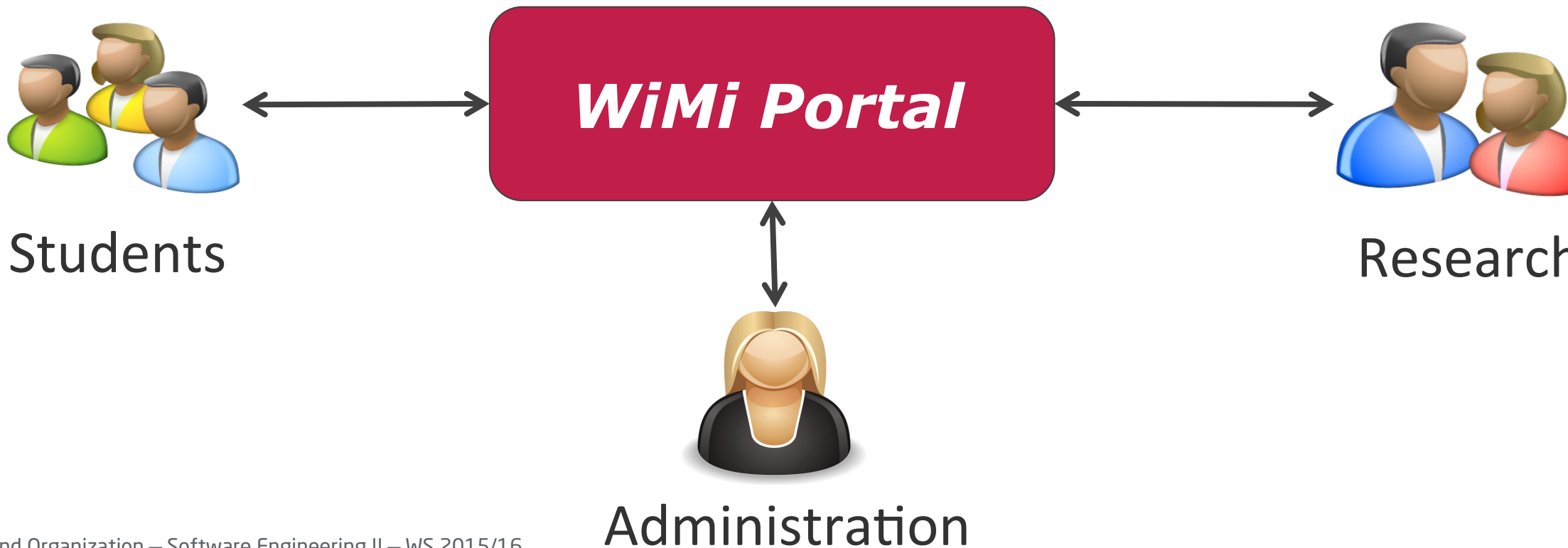
- Functionality
- Avoiding “patchwork” (UI, Workflows, Data)
- Maintainability of the Code Base (Tests, Quality, etc.)

So what's the topic?

PI WiMi Portal



Build a portal that supports students, researchers, and administrative staff in their daily work!



atus Quo

■ Papierkrieg!

- Stundenzettel
- Urlaubsanträge
- Dienstreiseanträge
- Reisekostenanträge
- Stundenzettel
- ...

status Quo

Arbeitszeitnachweis

Name des Mitarbeiters:

Wochenarbeitszeit lt. Vertrag:

Monat/Jahr: Pers.-Nr.:



Kalen- dertag	Beginn (Uhrzeit)	Pause (Dauer)	Ende (Uhrzeit)	Dauer (Summe)	*	Bemerkungen
ed, 01	10:00	:30	17:00	6:30		
hu, 02				0:00		
ri, 03				0:00		
at, 04				0:00		
un, 05				0:00		
on, 06				0:00		
ie, 07				0:00		
ed, 08	9:00	1:00	17:00	7:00		
nu, 09				0:00		
ri, 10				0:00		
at, 11				0:00		
in, 12				0:00		
on, 13				0:00		
ie, 14				0:00		
ed, 15	8:30	:45	16:00	6:45		
nu, 16				0:00		
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at, 18				0:00		
in, 19				0:00		
on, 20				0:00		
ie, 21				0:00		
ed, 22	10:00		16:00	6:00		
nu, 23				0:00		
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at, 25				0:00		
in, 26				0:00		
on, 27				0:00		
ie, 28	10:15		16:00	5:45		
ed, 29				0:00		
nu, 30				0:00		
ri, 31				0:00		
Symme:				32:00		

Datum Unterschrift des Arbeitnehmers
 Datum Unterschrift Fachgebiet

Tragen Sie in diese Spalte eines der folgenden Kürzel ein, wenn es für diesen Kalendertag zutrifft:

Schlüssel	K	Krank
	F	Feiertag

Arbeitszeitnachweis ist bis zum 10. Tag des Folgemonats über das FG oder Postfach Buchhaltung einzureichen!

Stand 03/2015

unschvorstellung

- Papierkrieg 2.0
 - Online gepflegt
 - Sinnvoll vorausgefüllt
 - Analysen möglich
 - Original Formulare für die Buchhaltung

Infrastructure - Open Source!

Infrastructure

HuBoard
GoogleCalendar

Github

Mailing-Lists
Gemnasium

CodeSchool
Travis-CI

Heroku
CodeClimate

Communication Channels



Mailing List

- swt2_2015@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://swt2-2015.slack.com>
- Team discussions
- Strongly recommended over Facebook, Skype, ...

All links can be found on the web site.
Please sign up until Oct 23!

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WT2 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)

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