

IT Systems Engineering | University



ntroduction and Organization

oftware Engineering II VS 2015/16 Thomas Kowar

Prof. Plattner, Dr. Uflacke Enterprise Platform and Integration Concepts grou

troduction and Organization

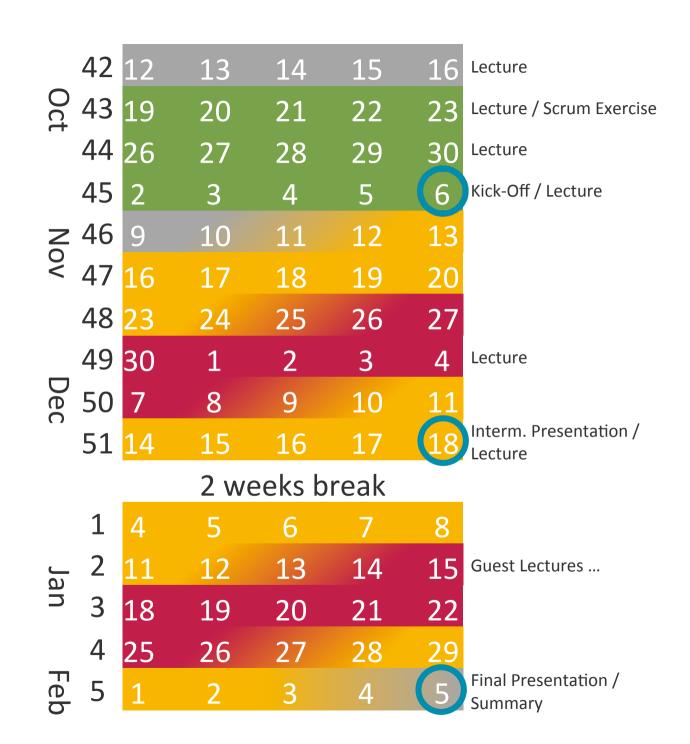
- 1. High-level Overview of SWT2
- 2. Organization
- 3. SWT2 Project
- 4. Basic IT Infrastructure
- 5. SWT2 Lecture
- 6. Literature

gh-level Overview of SWT II



chedule

- 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)



ganization

Prerequisite to SWT2

- Undergraduate program
- Softwaretechnik 1

Class

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

ganization

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

ganization

Responsible

■ Dr. Matthias Uflacker (<u>matthias.uflacker@hpi.de</u>)

Teaching Team

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

Tutors

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









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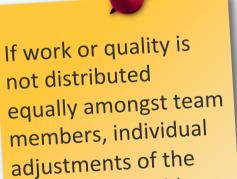
"Prüfungsnebenleistung"

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.



marks are possible.

Questions?

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troduction and Organization

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earning Targets





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orking 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?

orking 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

ontent 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!



n and Organization – Software Engineering II – WS 2015/16

atus Quo

- Papierkrieg!
 - Stundenzettel
 - □ Urlaubsanträge
 - □ Dienstreiseanträge
 - □ Reisekostenanträge
 - □ Stundenzettel
 - ...

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ienstreise - Antrag



nstreiseziel: Palo Alto, United States of America Seattle, United States of America

ınd für Dienstreise: ME310 Global Kickoff, ACM SIGSAPTIAL

bis	Tage	davon Auslandstage
.11.15	18	18
		11180

nerkungen:

reuung der Studenten beim Projekt-Kick-off, Betreuung der Paper Bike llenge, Abstimmung mit Partneruniversitäten (Karlsruhe u. Stanford), nahme Konferenz ACM SIGSAPTIAL, Vorstellung eines Papers im International Workshop on Smart Cities and Urban Analytics

nehmigt

/Unterschrift Geschäftsführur Reisekostenbericht

Abteilung Personalnummer

14482 Potsdam, Rudolf-Breitscheid-Str. 193

Fachbereich Plattner

Reise (00324-6) Auslandsreise mehrtägig 5 Tage

Reisedaten					
Von	16.05.2014 08:30	Kfz-Kennz.		Erstattung nach Spesengruppe	Firmeneigene Werte (Spgr. II)
Bis	20.05.2014 23:00	Kfz-Art		Vergleich mit Spesengruppe	Firmeneigene Werte (Spgr. II)
Abfahrtsort	Berlin	GesKM	0,0	KM-Satz	0,00
Zwischenort	Brüssel, Belgien	davon dienstl.	0,0	MF-Pauschale	0,02
Zielort	Louvain, Belgien	davon privat	0,0	Buchungsstatus	1
Zweck	Paper-Präsentation auf Konferenz eMOOCs 2015	Mitfahrer	0	Tätigkeitsort	
Reise erstellt	lange	Bearbeiter	lange		

Sa	chh	ezii	ae

Teusner, Ralf

Reisetag	Frühst.Mittag- Abendessen	Sonstiger Sachbezug	Bemerkung zum Sachbezug	Besuchte Länder	abweichendes Übernachtungsland
16.05.2014				Belgien	
17.05.2014	F			Belgien	
18.05.2014	F			Belgien	
19.05.2014	F			Belgien	
20.05.2014	F			Belgien	

Reisekosten (Alle Angaben in Euro)

Tag	Kostenart	Sachbezug aus F/M/A	steuerlicher Höchstbetrag	sonstige Mahlzeiten	Erstattung/ Werbungskosten	Kurs/ Währung
16.05.2014	Verpflegung (P/A)		28,00		28,00	
	Flug (1)				161,01	
	Übernachtung (2)				155,00	
	Taxi (8)				32,00	
17.05.2014	Verpflegung (P/A)		41,00		41,00	
	Pauschale Kürzung Mahlzeiten (A/F/)			8,20	-8,20	
	Bus/Bahn (7)				7,50	
18.05.2014	Verpflegung (P/A)		41,00		41,00	
	Pauschale Kürzung Mahlzeiten (A/F/)			8,20	-8,20	
	Übernachtung (3)				204,00	
	Bus/Bahn (4)				9,40	
	Taxi (9)				13,00	
19.05.2014	Verpflegung (P/A)		41,00		41,00	
	Pauschale Kürzung Mahlzeiten (A/F/)			8,20	-8,20	
	Taxi (10)				12,00	
20.05.2014	Verpflegung (P/A)		28,00		28,00	
	Pauschale Kürzung Mahlzeiten (A/F/)			8,20	-8,20	
	Bus/Bahn (5)				9,40	
	Bus/Bahn (6)				8,50	
	Taxi (11)				13,00	
	Taxi (12)				41,00	
Reise (003)	24-6) Summen:	0,00	179,00	32,80	812,01	

Lexware Reisekosten 15.03 23.06.2015



Urlaubsantrag

Name: Ralf Teusner

Grund für Sonderurlaub:

Urlaubs	anspruch			Urlaubsantra	ıg		Rest
Vorjahr	Lfd. Jahr	erhalten	bleiben	von	bis	Tage	Tage
19	32	19	32	14.08.15	14.08.15	1	31
19	32	20	31	09.10.15	09.10.15	1	30

Antragssteller

atum/Unterschrift ehrstuhlinhaher

atum/Unterschrift

atus Quo

rbeitszeitnachweis

100	es Mitarbeite							IT Sys
	arbeitszeit li	t. Vertrag		flexibel			Univ	
nat/J			~	2015		PersNr.:		
ilen- rtag	Beginn (Uhrzeit)	Pause (Dauer)	Ende (Uhrzeit)	Dauer (Summe)	*		Bemerkungen	
3, 01	10:00	:30	17:00	6:30				
, 02				0:00				
03				0:00				
, 04				0:00				
, 05				0:00				
1, 06				0:00				
, 07				0:00				
1, 08	9:00	1:00	17:00	7:00				
, 09				0:00				
10				0:00				
, 11				0:00				
, 12				0:00				
1, 13				0:00				
, 14				0:00				
, 15	8:30	:45	16:00	6:45				
, 16				0:00				
17				0:00				
18				0:00				
19				0:00				
20				0:00				
21				0:00				
, 22	10:00		16:00	6:00				
23				0:00				
24				0:00				
25				0:00				
26				0:00				
27				0:00				
28	10:15		16:00	5:45				
29				0:00				
30				0:00				
31				0:00			13	
		10	Summe:	32:00				
(1811		=		i	1.8.15 Datum	Ville 1	
_	Datum	Unterschrif	ft des Arbeit	nehmers		Datum	Unterschrift Fachge	biet

unschvorstellung

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

Infrastructure - Open Source!



Infrastructure

HuBoard GoogleCalendar



mmunication 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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VT2 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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