Course Schedule and Project Work

Prof. Dr. Dirk Riehle

Friedrich-Alexander University Erlangen-Nürnberg

AMOS A02

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Course Schedule

#	Class Content	Deliverables
01	Project introductions	Team contract, T-shirt information
02	Tools and technologies	Project information, sprint release
03	Agile software processes	Sprint release, architecture description
04	Agile product management	Sprint release
05	Agile software development	Sprint release
06	Agile quality assurance	Sprint release
07	Agile process improvement	Sprint release
08	Guest speaker (see online course schedule)	Mid-term release
09	Guest speaker (see online course schedule)	Sprint release
10	Guest speaker (see online course schedule)	Sprint release
11	Guest speaker (see online course schedule)	Sprint release
12	Guest speaker (see online course schedule)	Sprint release, demo day poster
13	Guest speaker (see online course schedule)	Sprint release
14	Guest speaker (see online course schedule)	Sprint release
15	AMOS demo day!	Final release

Work Rhythm

- Lectures
 - Class day (90min.)
- Team meetings
 - Class day before or after lecture
- Project work (self-organized)
 - Deliverables due according to schedule

Types of Deliverables 1 / 4

Process artifacts

- All tabs from the planning document
- Quality criteria for process artifacts
 - Cleanliness, completeness, correctness
 - Understandability and usefulness
 - Others more ...

Types of Deliverables 2 / 4

Product artifacts

- Everything in the code repository
- Product artifacts accumulate over time
 - What specifically depends on the project, but typically includes
 - Source code
 - User documentation
 - Technical documentation
- Quality criteria for product artifacts
 - Cleanliness of source code
 - Use of commit comments
 - Effective use of branching
 - Correct tags and releases
 - Sufficient test coverage
 - Others more ...

Types of Deliverables 3 / 4

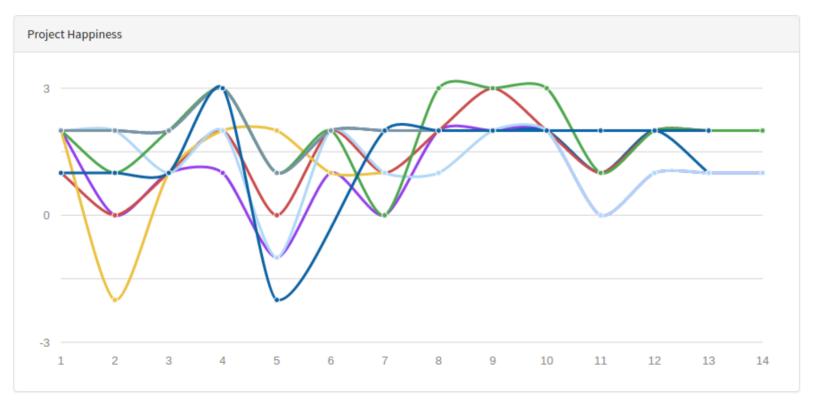
Stand-up emails

- A short summary email through the Happiness Index app containing
 - What you did since the last email
 - What problems you encountered
 - What you are going to do next
- Expected minimum frequency
 - Product owner role: Max. one per day, in total two per week
 - Software developer role: Max one per day, in total three per week

Types of Deliverables 4 / 4

Happiness index

Provide feedback through the Happiness Index app



Time of Day for Deliverables

- Process artifacts
 - Before team meeting on team meeting day
- Product artifacts
 - Middle of team meeting (after prior sprint, before new sprint)
- Stand-up emails
 - Midnight every day
- Happiness index
 - During retrospective in team meeting
- Everything else
 - End of team meeting day

How to Submit Deliverables

- Process artifacts
 - By upload to course management system (documents)
 - By email to teaching team (if no upload section exists)
- Product artifacts
 - By tagging on GitHub (source code)
- Stand-up emails
 - By using email alias or app (see Course Index)
- Happiness index
 - By using email alias or app (through Course Index)
- Everything else
 - By upload to course management system (documents)
 - By email to teaching team (if no upload section exists)

CW #01 Deliverables Due

- Provide happiness index during team meeting
- Share process artifacts (with Prof. Riehle)
 - Copy and adapt from http://goo.gl/Brc0Q
 - Set sharing to public (viewable) so teaching team can view
- Submit team contract (as PDF-scan of photo)
 - More information at https://wp.me/PDU66-1su
- This (first) week only: Due date/time is Friday midnight

CW #02 Deliverables Due

- Submit information for team T-shirts
 - Create logo and design your T-shirt at https://www.shirtinator.de/
 - Provide T-shirt preferences (size, color) using survey through Course Index
 - Put links to T-shirt designs on Shirtinator into process artifacts
- Submit process artifacts (as PDF)
 - Follow instructions at https://goo.gl/qoVtFA
 - Plan out student roles and industry partner meetings for whole semester
- Tag product artifacts on GitHub and deploy them
 - Tag is sprint-01-release (continue like this in the future)
- Provide stand-up emails and happiness index

CW #03 Deliverables Due

- Submit process artifacts, include (new)
 - Initial bill of materials
 - Please maintain it over time
- Provide product artifacts as before
- Submit software architecture description (as PDF)
 - High-level logical and code component overview
 - Employed technology stack and platforms
- Provide stand-up emails and happiness index

CW #04 Deliverables Due

- Submit process artifacts
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

CW #05 Deliverables Due

- Submit process artifacts, include (new)
 - Product vision and project mission
 - Glossary
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

CW #06 Deliverables Due

- Submit process artifacts
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

CW #07 Deliverables Due

- Submit process artifact, include (new)
 - Mid-term release plan
 - Definition-of-done for both
 - Sprint release
 - Product release
- Provide product artifact
- Provide stand-up emails
- Provide happiness index

CW #08 Deliverables Due

- Submit process artifacts, include (new)
 - Final product release plan
- Provide product artifacts
 - Mid-project product release (tagged on GitHub)
 - Mid-project product documentation (tagged on GitHub)
 - Mid-project product deployed as appropriate for the project
 - Use additional release tag mid-project-release
- Provide stand-up emails
- Provide happiness index

CW #09 Deliverables Due

- Submit process artifacts
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

CW #10 Deliverables Due

- Submit process artifacts
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

CW #11 Deliverables Due

- Submit process artifacts
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

CW #12 Deliverables Due

- Submit process artifacts
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

CW #13 Deliverables Due

- Submit AMOS demo day posters (as PDF)
 - Submit high-resolution (300dpi) PDFs for DinA1 printing
 - You can find examples through Course index → Student materials
 - The posters will be part of your demo booth; there are two
 - Product management poster, contains
 - Project and team name, team logo, industry partner name, project description, use cases
 - Software development poster, contains
 - Software architecture, interesting technology, tooling and processes
 - Please submit the PDFs as two separate files
- Submit process artifacts
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

CW #14 Deliverables Due

- Submit process artifacts
- Provide product artifacts
- Provide stand-up emails
- Provide happiness index

CW #15 Deliverables Due

- Submit AMOS demo day slide (as PDF)
 - Submit the night before the demo day!
- Submit process artifacts in final cleaned-up version
- Provide product artifacts, includes (new)
 - Final product release (tagged on GitHub)
 - Additional release tag is final-project-release
- Provide stand-up emails
- Provide happiness index

CW #16 Deliverables Due

- Provide a project summary (by sharing with Prof. Riehle)
 - Copy and fill in the form at https://goo.gl/qLiZLA
 - Share with riehle@group.riehle.org
- Provide a project retrospective (as PDF)
 - Write down in the form of a letter to next year's students
 - What happened when?
 - What went well?
 - What went wrong?
 - What to do better next time?
- Feel free to provide feedback on the course
 - Send email to appropriate person or share anonymously

Thank you! Questions?

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- Contributions

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Course Schedule and Project Work

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It is Friedrich-Alexander University Erlangen-Nürnberg – FAU, in short. Corporate identity wants us to say "Friedrich-Alexander University".

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4

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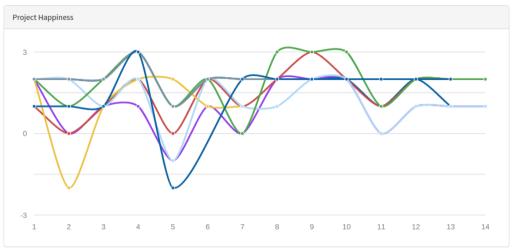
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6

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7

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9

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Thank you! Questions? dirk.riehle@fau.de - http://osr.cs.fau.de dirk@riehle.org - http://dirkriehle.com - @dirkriehle DR

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