MTAT.03.270
Seminar on Enterprise Software
(3 ECTS)

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Schedule – Sessions in red are mandatory

- 09 February - Introductory Session 1 (Dietmar Pfahl)
- 16 February - Introductory Session 2 (Dietmar Pfahl)
- 23 February & 02 March & 09 March & 16 March - Individual Consultation (optional & on request by student only - first come first serve principle) - Online or face-to-face
- 23 March – Student Presentations 1 (work in pairs)
- 30 March – Student Presentations 2 (work in pairs)
- 06 April – Student Presentations 3 (work in pairs)
- 13 April – Student Presentations 4 (work in pairs)
- 20 April – Student Presentations 5 (work in pairs)
- 27 April – Student Presentations 6 (work in pairs)
- 04 May – Student Presentations 7 (work in pairs)
- May 11 & 18 – Consultation for final reports (optional & on request by student(s) only - first come first serve principle)

- 23 February & 02 March & 09 March & 16 March - Individual Consultation (optional & on request by student only - first come first serve principle) - Online or face-to-face in my office (room 3507)
- 27 March - Deadline for submitting draft reports & slides of Presentations 1 (submit before 23/59)
- 23 March - Presentations 1: 1st and 2nd year students (work in pairs)
  - Intro Slides
  - Topic AD-1: Evolution of software architecture paradigms in mobile applications - taken by Rene Kütt and Christian Kässerar
  - Topic AD-2: Evolution of software architectural styles in web applications - taken by Daichi Ando and Volodymyr Chernetskyi
  - Topic TQ-10: Security concepts in microservices and microservice architecture - taken by Matin Manafov and Adil Aburasakali
  - Note: The presentation session is followed by a 30 min quiz (in Moodle). All students who did not give a presentation today must take the quiz. In the quiz you must say which presentation was best and which was worst with regards to content, form, timing, and style of presentation. Justifications must be given.
- 28 March - Deadline for submitting draft reports & slides of Presentations 2 (submit before 23/59)
- 30 March - Presentations 2: 1st and 2nd year students (work in pairs)
  - Intro Slides
  - Topic SI-1: Similarity/Difference of code smell frequency across programming languages/platforms - taken by Monika Sreetha and Woranong Chunchapak
  - Topic SI-2: Pros and cons of static code analyiners - taken by Artem Filipenko and Zhilydyz Akhatbekova
  - Topic SI-7: Interactive static code analysers - taken by Karoline Holter
  - Note: The presentation session is followed by a 30 min quiz (in Moodle). All students who did not give a presentation today must take the quiz. In the quiz you must say which presentation was best and which was worst with regards to content, form, timing, and style of presentation. Justifications must be given.
- 04 April - Deadline for submitting draft reports & slides of Presentations 3 (submit before 23/59)
- 06 April - Presentations 3: 1st and 2nd year students (work in pairs)
  - Intro Slides
  - Topic TQ-4: Using machine learning to solve the test oracle problem - taken by Zhaosi Qu and Serp Aktug
  - Topic TQ-7: Using machine learning to speed up automated testing - taken by Khalid Esth Er Gunaday)
  - Topic TQ-7: Automatic test oracle generation - taken by Merlin Kasesala and Peter Kallaste
  - Note: The presentation session is followed by a 30 min quiz (in Moodle). Only students who did not give a presentation today must take the quiz. In the quiz you must say which presentation was best and which was worst with regards to content, form, timing, and style of presentation. Justifications must be given.
- 17 April - Deadline for submitting draft reports & slides of Presentations 4 (submit before 23/59)
Tasks

- Draft Report + Presentation Slides (submit 2 days before presentation)
- Feedback on presentations (via Quiz in Moodle at end of session)
  - Quiz closes at 23:59 of presentation day!
  - Must give feedback at least for 5 sessions (excluding the one where you give a presentation)
  - Must be given by each non-presenting student individually; feedback is given per presentation
  - In the quiz you must say which presentation was best and which was worst with regards to content, form, timing, and style of presentation. Justifications must be given. If the feedback is too shallow it will not count.
- Final Report (deadline: 23 May)
Feedback  
(each non-presenting student — for all presentations)

• Timing (12 min):
  • Not too long – not too short – content appropriately distributed?

• Content:
  • Logical – understandable – complete?

• Slides:
  • Readable – not too full – visual supporting (not repeating) what is said?

• Presentation:
  • Clearly understandable – calm?

Be constructive! Make improvement suggestions!
Today’s Presentations (06 April)

- Topic TQ-3: **Using machine learning to solve the test oracle problem** - by Zhaosi Qu and Sarp Aktug
- Topic TQ-4: **Using machine learning to speed up automated testing** - by Kehinde Esther Ogundeyi and Sammar Ahmad
- Topic TQ-7: **Automatic test oracle generation** - by Merlin Kasesalu and Peter Kallaste