

Practical Course Software Engineering for Business Information Systems – SEBA Lab Course: Preliminary Discussion

Felix Hoops, Zoom, 13th of July, 2023

Chair of Software Engineering for Business Information Systems (sebis)
Faculty of Informatics
Technische Universität München
www.matthes.in.tum.de

Goals of the SEBA Lab Course (former Web App Lab)

- Deepen your knowledge from the Web Application Engineering (SEBA Master) course
- Get familiar with new technologies such as blockchain, NoSQL databases, Cloud Computing, REST APIs, React.js, NLP, ML, etc.
- Get more practical experience in application development
- Collect teamwork experience and practice presentation skills in English
- Participate in current research projects at sebis and collaborate with industry partners

Organization*

| Date | Time | Room | Topic |
|---|-------------|---------------|-------------------------------------|
| 17.10.2023 | 10:00-12:00 | Zoom | Initial Meeting – Project Proposals |
| Weekly meetings (on project team level) | | | |
| 13.12.2023 | 10:30-16:30 | In-person TBD | Intermediate Presentations |
| Weekly meetings (on project team level) | | | |
| 14.02.2024 | 09:30-16:30 | In-person TBD | Final Presentations |

* Dates not 100% final. Finalized dates will be published on the course page within the next 2 weeks.

General Information

- Only for Master's students
- Preferred admission for students who successfully participated in SEBA Master
- Solid programming skills required
- 48 students will be accepted
- 10 ECTS / 6 SWS
- Presentations are planned to take place in person
- Registration per Matching System and Survey below between 14th of July 2023 and 19th of July 2023
 - <https://matching.in.tum.de/>
 - <https://forms.gle/JNeDU4nCwYBKabZ67>

Further Information

- <https://www.matthes.in.tum.de/pages/18witnulbiwl6/SEBA-Lab-Course>
- Latest information on the course
- Additional literature for the lab course

Examination

- Presentation of team results in two meetings
- Final application with the source code
- Retrospective slides deck
 - Key learnings by each team member
 - Contribution matrix



Application

- User-Centered Design
- Architecture Documentation
- Code Quality
- Team Work



Presentation

- Content
- Structure & Style
- Time Management
- Quality of the Answers

**For successful completion of the course, both examination modules
have to be passed!**

Some of our industry partners from the past for external topics



Visit Latest information on the course

<https://www.matthes.in.tum.de/pages/18witnulbiwl6/SEBA-Lab-Course>

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SEBA Lab Course

Last modified by Oleksandra Klymenko Jun 30

Attributes of this Course

| | |
|------------------------|---------------------------|
| Acronym | SEBA Lab |
| Contact (organization) | Oleksandra Klymenko |
| ECTS | 10 |
| Exam | Oral |
| Language | English |
| Lecturer | Prof. Dr. Florian Matthes |
| Level | Master |
| Module No. | IN2106, 2129, 4077 |
| Rhythm | Winter |
| Room | see description |
| SWS | 6 |
| Time | see description |

Organizer Oleksandra Klymenko

Type Lab Course

Maximum number of participants 48

News

Preliminary Discussion: 07.07.2021 at 17:00-18:00 will take place online via Zoom.
Kickoff: 18.10.2021 at 15:30-17:30 is planned to take place onsite*.
Intermediate Presentations: 21.12.2021 at 10:30-16:30 is planned to take place onsite*.
Final Presentations: 08.02.2022 at 09:30-16:30 is planned to take place onsite*.
Please fill out the following survey [link](#) so that we are able to create equally skilled teams.

Contact

For questions or any feedback on the course, please contact Oleksandra Klymenko.

Registration

Registration per Matching System [link](#) and Survey [link](#) between 15th of July 2021 and 20th of July 2021.
Only for Master's students!

Content and teaching goals

The Master Lab Course Web Applications is an opportunity for students to work on interesting projects in the field of web applications. Students will collaborate in small teams and implement a web application over the course of the term. Each team is advised by one teaching assistant of the chair.

The goals of the lab course are:

- Deepen your knowledge from the SEBA Master course
- Get familiar with new technologies such as Blockchain, NoSQL databases, Cloud Computing, REST APIs, React.js, NLP, ML, etc.
- Get more practical experience in application development!
- Collect teamwork experience and practice presentation skills in English
- Participate in current research projects at seba and collaborate with industry partners

Schedule

| Date | Time | Place | Topic | Attendance |
|---|---------------|--|-------------------------------------|------------------|
| 07.07.2021 | 17:00 - 18:00 | Zoom link (weid. 587933) | Preliminary Discussion | voluntary |
| 18.10.2021 | 15:30 - 17:30 | 8102.EG.116 link (Garching-Hochbrück)* | Kickoff Meeting - Project Proposals | mandatory |
| Weekly meetings (on project team level) | | | | |
| 21.12.2021 | 10:30 - 16:30 | 8102.EG.116 link (Garching-Hochbrück)* | Intermediate Presentations | mandatory |
| Weekly meetings (on project team level) | | | | |
| 08.02.2022 | 09:30 - 16:30 | 8102.EG.116 link (Garching-Hochbrück)* | Final Presentations | mandatory |

* Subject to changes. The meetings will be held onsite only if current corona regulations will allow it.

References

[Dai1] A. Osterwalder, Y. Pigneur: Business Model Generation: A Handbook for Visionaries, Game Changers, and Challengers, John Wiley & Sons, 2010

[Roo0] D. Rooz: The Back of the Napkin: Solving Problems and Settling Ideas with Pictures, Portfolio Hardcover, 2009

[Doy07] D. K. Van Doyne, J. A. Landay, J. I. Hong: The design of sites, Prentice Hall Professional, 2007

[Kru05] S. Krug: Don't make me think! Web Usability: Das intuitive Web, New Riders Press, 2005

[Hoe06] R. Heoelman: Designing the Obvious. A Commonsense Approach to Web Application Design, New Riders Press, 2006

[Bal03] P. Baldi, P. Frasconi, P. Smyth: Modeling the Internet and the Web, Wiley, 2003

[Moe06] E. Mendes, N. Mosley: Web Engineering, Springer, 2006

[Jad04] S. Jablonksi, I. Patov, C. Mellec, U. Mayer: Guide to Web Application and Platform Architectures, Springer, 2004

Summary

Registration

14.07.2023-19.07.2023

- Matching System
<https://matching.in.tum.de/>
- Survey
<https://forms.gle/JNeDU4nCwYBKabZ67>

Up-to-date information

<https://wwwmatthes.in.tum.de/pages/18witnulbiwl6/SEBA-Lab-Course>

Contact

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