

## Secure Software Engineering

**Exercise Sheet 2, Winterterm 25/26**

**Discussion Week:** Tue 03.11.25 to Fri 07.11.25

We highly encourage you to do the assignments yourselves, as all the exercises are relevant for the exam. It is also recommended to visit the tutorial, as there will be a discussion about the exercises, not just the solutions. For the *Vulnerability of the Day* exercises, we recommend looking into the code snippets, if you find any, while doing research. Keep in mind, the entirety of the lecture is relevant for the exam. If a topic or some details are not specifically talked about or mentioned in the exercises, that does **not** mean that it will not be part of the exam!

If you have any questions, please do not hesitate to ask your tutor Aura, Kati or Lukas. (Hint: the mails are embedded in the names.)

Good luck and have fun! :)

### Ex. 1 - STRIDE

Answer the following sub-tasks:

- a) What does STRIDE stand for?
- b) Explain what the STRIDE properties are.

### Ex. 2 - Misuse and Abuse

Answer the following sub-tasks:

- a) What is the difference between a *misuse* and an *abuse* case?
- b) Think of a situation where both a misuse and an abuse case can happen. Explain what happens in each and discuss, why it is a misuse/abuse case and not the other.

### Ex. 3 - Vulnerability of the Day

In the lecture you have talked about *SQL-Injection*. Research an example of this which was not discussed and explain what happened, how it happened and how it was dealt with. In addition to that, explain which of the CIA properties were affected.