



Assignment 2

Submission A Sunday, November 12th, 12:59pm CEST via email to florian.alt@hm.edu
Submission B Sunday, November 26th, 12:59pm CEST via email to florian.alt@hm.edu

Exercise 1-1 Reading task

Please read the following paper:

[It's a Hard Lock Life: A Field Study of Smartphone \(Un\)Locking Behavior and Risk Perception](https://www.usenix.org/system/files/conference/soups2014/soups14-paper-harbach.pdf)
(<https://www.usenix.org/system/files/conference/soups2014/soups14-paper-harbach.pdf>)

Exercise 1-2 Creating a novel authentication concept

In this exercise, please form groups of two students. Your task is to come up with a novel authentication concept based on a problem analysis and requirements engineering. Your authentication concept can be targeted either at a mobile context, a web context, or an Internet-of-Things context (that allows for a combination with a mobile device / the web).

a) Week 1 – Understanding (Submission A):

Applying one of the techniques you learned in the lecture (observations, interviews, surveys, etc.), identify a **specific problem of common authentication mechanisms**. This can be a usability problem, a security problem or a combination of both. In addition, identify a particular **target group** (kids, postmen, salesmen, factory workers, etc.) and, if applicable, one or several potential **situations**, in which your target users need to authenticate (e.g., access to a certain room, a web service, an (IoT) device, a vehicle, etc.).

Summarize your findings in the form of one or several personas and one or several scenarios and submit them until 12th November 2017 via email (see below).

b) Week 2 – Focus Group:

With your personas and scenarios, conduct a focus group (4-6 people) with the goal of coming up with ideas for novel authentication concepts. Afterwards, summarize the findings from your focus group, derive novel authentication concepts, and assess these concepts regarding novelty and feasibility.

c) Week 3 – Concept:

Select 2 concepts (one concept per person) and create a sketch / paper prototype that you can present in the lecture on 28th November 2017.

Submit a 250 word description and images of each concept as well as 2-3 slides that help you present the concept in class until 26th November 2017 via email (see below)

Submissions:

Submit your solution as a PDF, named "assignment2{alb}<last_name_tammember1>_<last_name_tammember2>.pdf through email to florian.alt@hm.edu with subject "Assignment 2{alb}". The submission deadlines are Sunday, November 12th and 26th, 12:59pm CEST.