

## Exercise: Requirements

This exercise will give you the chance to engage in eliciting, specifying, and validating security requirements - as both a designer and a stakeholder.

Each breakout group will act as both a *design* and *stakeholder* team.

As a *design* team, the group represents a mobile app start-up company. The company's investors see an opportunity developing a diary and scheduling app for a very influential, but secretive group of users with some very specific security and privacy needs. The team will need to elicit, specify and validate security requirements for this app.

As a *stakeholder* team, you will be representatives of the influential, but secretive group. You will be interviewed by *design* team members from another group, who will try to understand your security needs. During the interviews, you should answer any questions asked to help the interviewers elicit your team's diary and scheduling expectations. Please be helpful, but do not openly state your security needs unless the opportunity arises, and reveal as little information about your stakeholder role as possible.

## Tasks

1. [15 minutes] As a group, please do the following:
  - a. Import the CAIRIS model `initialgoals.xml`. The requirements have been specified as a KAOS goal model and can be viewed via the Models >> Goals menu. Ensure everyone understands the requirements the app needs to satisfy.
  - b. Review the *stakeholder* character brief your breakout group has been given. Ensure you all understand the security expectations of your group.
  - c. Sub-divide your group into *interviewers* and *interviewees*. Interviewers will represent *design* team members interviewing *stakeholder* team members in another group. Interviewees will represent *stakeholder* team members being interviewed by *design* team members in another group. Once you have decided who will do what, prefix your name in Zoom with (i) your breakout room number, (ii) a D if you are interviewing, or S if you are being interviewed, e.g. if Joe Bloggs is in Breakout Group 1 and is interviewing, his Zoom name should be 1D\_JoeBloggs.
2. [20 minutes] You will be placed into new breakout groups; each will contain *designers* (interviewers) from one of the original breakout groups, and *stakeholders* (interviewees) from another. Interviewers are not allowed to make any audio or video recordings of the interview, but are allowed to make notes and sketches.
3. [40 minutes] You will return to your original breakout groups. As a group, specify the security requirements that you believe need to be satisfied in CAIRIS. These may be system (KAOS) goals or requirements.

4. [15 minutes] You will be returned to the same breakout groups used in Task 2. This time the roles will be reversed, and the interviewers in Task 2 will now be interviewees and vice-versa.

- *Interviewers*: Work with the other group's *interviewees* to validate the security requirements specified by your group.
- *Interviewees*: Act as stakeholders while the other group validates your group's security requirements. Do these security requirements capture your group's expectations?