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WP5 D5. Technical documentation for the software

ACTIVATE Debriefing Dashboard

In combination with Videoguide:

<https://vimeo.com/medicampusvhp/videoguidedebriefingdashboard?share=copy>

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1 Context

The Erasmus+ project ACTIVATE aimed at developing methods for digital skills training for interprofessional teams in the healthcare sector through Europe-wide collaboration.

In healthcare professions, there is often a lack of time for targeted practical exercises and interprofessional teamwork in the training and further education of staff and students. Digital transformation and the associated research can help to develop and test suitable training scenarios.

This is where the Erasmus+ project ACTIVATE – Agile Competency-Based Learning for Individuals and Teams – comes in. The project partners developed simulation scenarios for individual skills training and interprofessional collaboration in home and palliative care, as well as a mobile application for narrative feedback and a shared dashboard for debriefing interprofessional team training sessions. The training scenarios, as well as the digital and AI technologies, are tested and researched in the training of healthcare professionals with students of medicine, nursing, occupational therapy and pharmacy in Germany and Sweden.

The project is coordinated by the University of Münster and carried out in collaboration with HTWK Leipzig University of Applied Sciences, University of Twente, Mälardalen University and Örebro University in 2024 - 2026.

HTWK Leipzig developed the web-based prototype that generates entries in a dashboard for debriefing sessions from the transcription of interprofessional team training sessions. Further information can be found:

- on the project website <https://medicampus.uni-muenster.de/ccel/projects/activate/>,
- web service <https://activate.htwk-leipzig.de/start/>,
- Github archive <https://github.com/drjochenmerker/ACTIVATE-Dashboard>,
- the video tutorial is available under the link <https://medicampus.uni-muenster.de/ccel/projects/activate/results/wp5-d5a-videoguide-debriefing-dashboard/>.

2 Technical details

2.1 General process description

The application is generally used for interprofessional learning in groups with students of different fields of study. Together they simulate typical situations in which they have distributed knowledge and which might pose ethical dilemmas. Participants should negotiate responsibilities and demonstrate interpersonal relational skills/ expertise aligning their professional perspectives with those of others.

The simulation consists of four distinct phases (Fig. 1).

First, participants are introduced to the situation and the team with which they will be working.

After the introduction, the simulation itself takes place, during which participants work with their team on the assigned task.

Next, they must then provide feedback on their experiences. The feedback process is handled by the developed application, which summarises the feedback and presents it as an activity system diagram.

Finally, the participants discuss the diagram together with the instructor. The result can later be used to review the archived conclusions and as a reference for other students in the fields of palliative care and nursing.

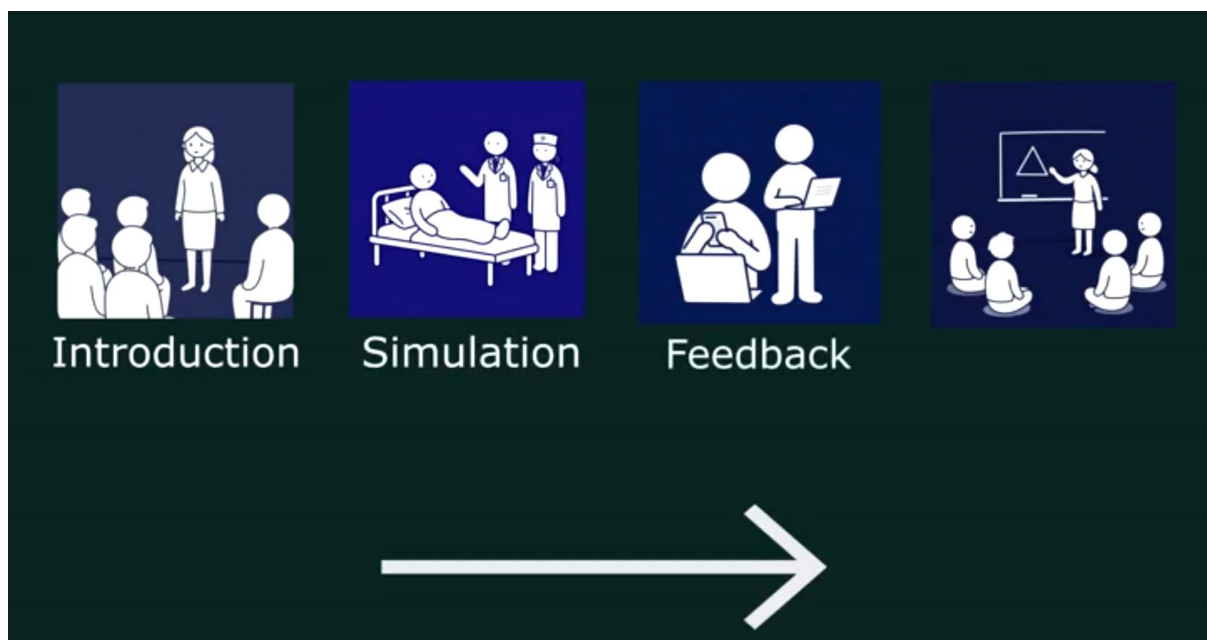


Figure 1. General process description

2.2 Walk through the debriefing application

The process begins with the preparation of the scenario (situation) by the instructor. After logging in with the instructor password, a new activity can be created by clicking the ‘Plus’ button on the dashboard (Fig. 2). Enter the name and the description of the situation you wish to create, then press ‘Done’. The instructor now briefs the participants on the content of the simulation.

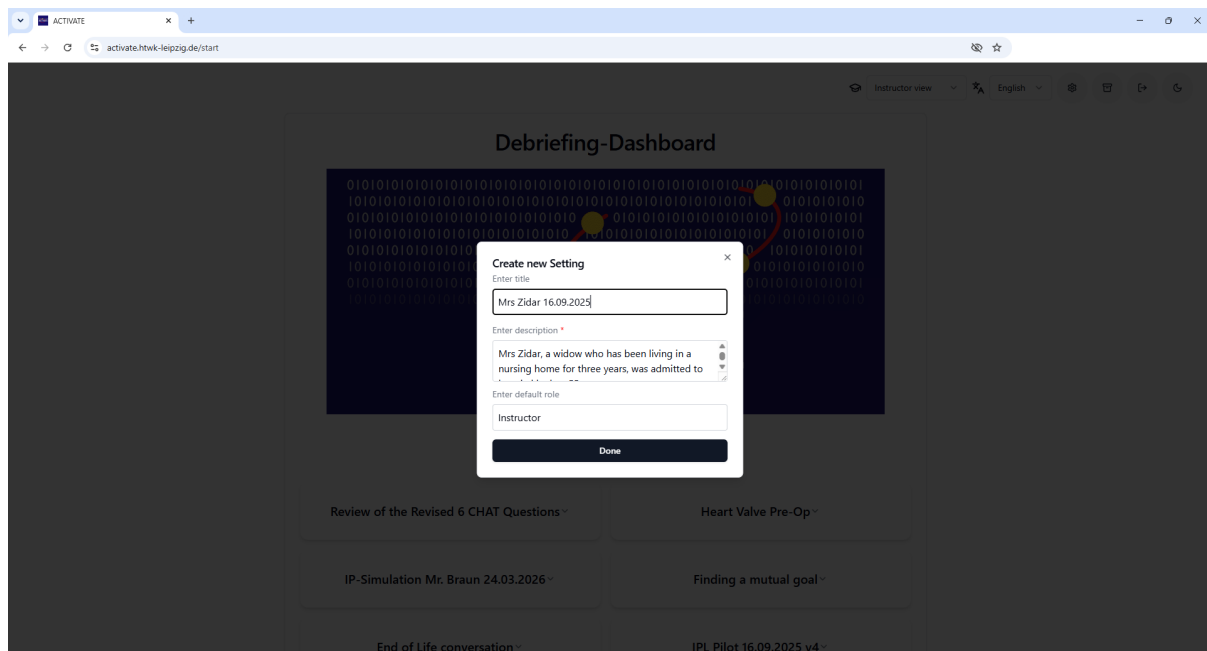


Figure 2. Creating a new scenario

After the introduction, participants work their way through the simulation. Once the simulation has come to its end, the feedback process begins. Participants can now start filling in the feedback form. To view the QR code or the link to the form, click on the activity you have created and then on the QR code icon (Fig. 3).

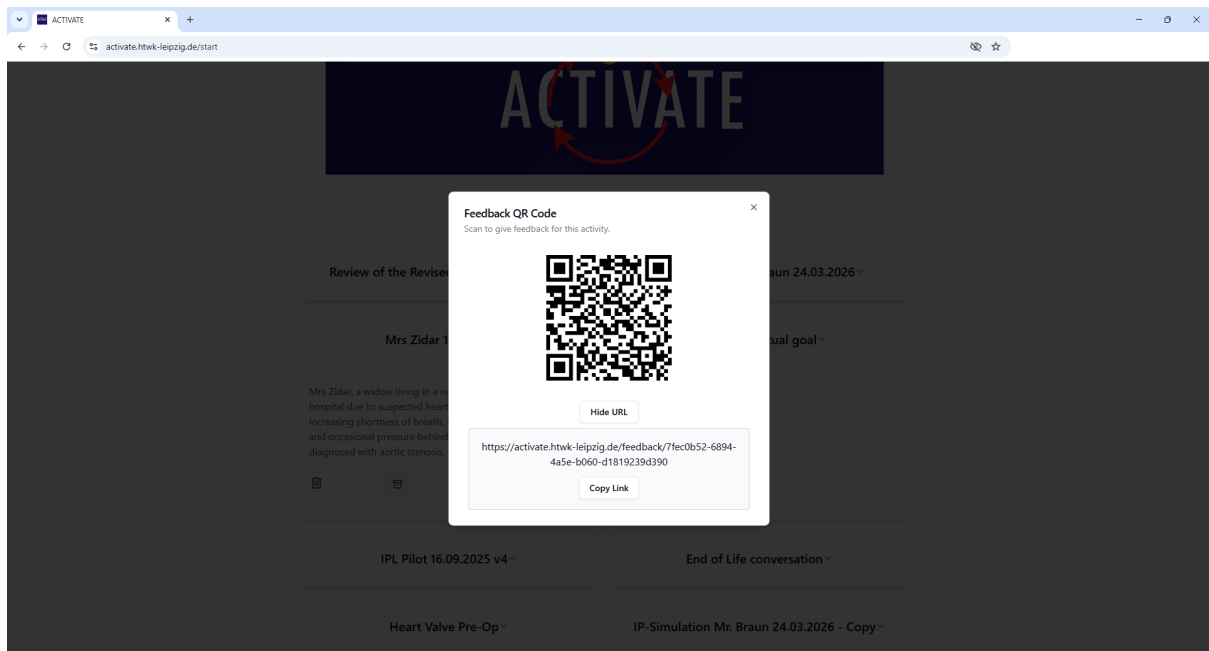


Figure 3. A QR code for the feedback form

Participants can now scan the QR code or follow the link to access the feedback page. At the top, participants select their assigned role and answer the questions based on their experiences gained during the simulation (Fig. 4). The answers will be submitted as soon as you click the button at the bottom of the page. The submission process may take a few minutes; please do not close the page during this process.

A screenshot of the feedback form on the ACTIVATE website. The form is titled "Physician 01" and has three main sections: "Object(ive) (Goal of the joint activity)", "Subject (Actors and their Perspectives)", and "Community (social environment and contextual conditions)". Each section contains a question and a text input field for the answer. The first question is "How would you describe your own goal and the common goal of the interprofessional collaboration in patient care?". The second question is "In which situations were you (not) able to contribute your professional perspective and your social skills?". The third question is "Which external structures influenced the collaboration (e.g., organizational policies, lack of time, rooms, patients' or relatives' expectations...)?".

Figure 4. Answer the questions after completing the simulation

Once all participants have submitted their feedback, the instructor can combine the feedback entries to display the tensions in the diagram.

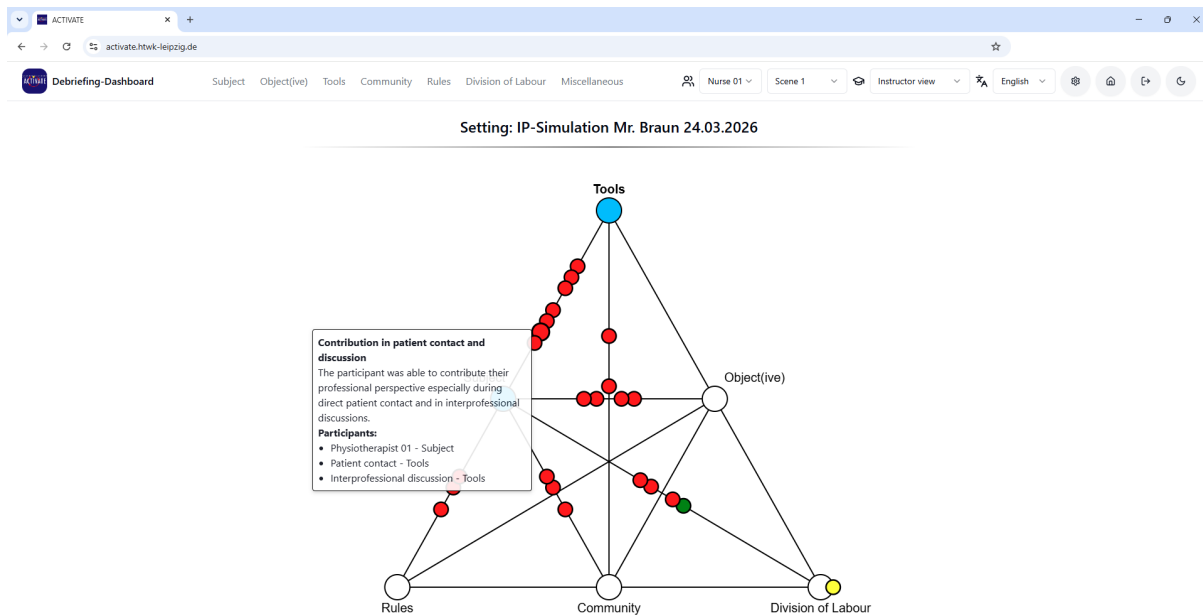


Figure 5. A diagram and the tensions created

To do this, select the activity and click on 'Combine'. This starts the automatic process that combines the feedback and generates the diagram using a LLM (large language model) and custom prompts. : This starts the automatic process that combines the feedback and generates the diagram using a LLM (large language model) and custom prompts. Depending on the volume of feedback, this process may also take a few minutes.

After the combination is complete, you can check out the diagram and the tensions that were generated from the feedback submissions. Hover over the points in the diagram to display the entities involved and the topic of discussion (Fig. 5). A detailed explanation of the diagram can be found in the additional video¹ provided by the Deliverable 6a in the project Work Package 3.

¹ <https://videofund.de/activate/quick-start-guide-debriefing-dashboard.php>

3 Debriefing dashboard in detail

3.1 The participants' view of the dashboard

The application comes into play once the simulation has finished.

To access the application, you need first to log in. There are two passwords – one for instructors and another for participants. The password for participants is provided by the instructor at the start of the debriefing.

Students can add their feedback by clicking on the situation created by the instructor and either copying the URL or using the QR code, both of which lead to the feedback form. There, students should specify the role they played in the simulation and answer the questions.

Once all participants have submitted their feedback forms, the instructor starts the process of combining responses and diagram generation, which then is discussed together.

Participants can then comment on the created conflicts to explore dilemmas in greater depth and propose solutions. In order to do this, participants have to select their role in the situation selection screen.

After the debriefing, students can continue to access the completed diagram using the login details provided.

3.2 The instructors' view of the dashboard

Using the instructor login, the instructor can create new situations, adjust the diagram generation process in the settings, and edit existing data (Fig. 6).

Before participants can add their feedback, the instructor needs to create a new situation in the dashboard overview.

After all participants have submitted their feedback forms, the instructor can combine their answers to create the tensions between the entities in the diagram. The prompt for diagram generation can be adjusted in the settings. The instructor can also switch between different AI models and providers, however the quality of the results may vary.

The group discussion can begin after the instructor pressed the 'Combine' button and the application completed the combination process. Please keep in mind that this can take a couple of minutes, depending on the amount of feedback received.

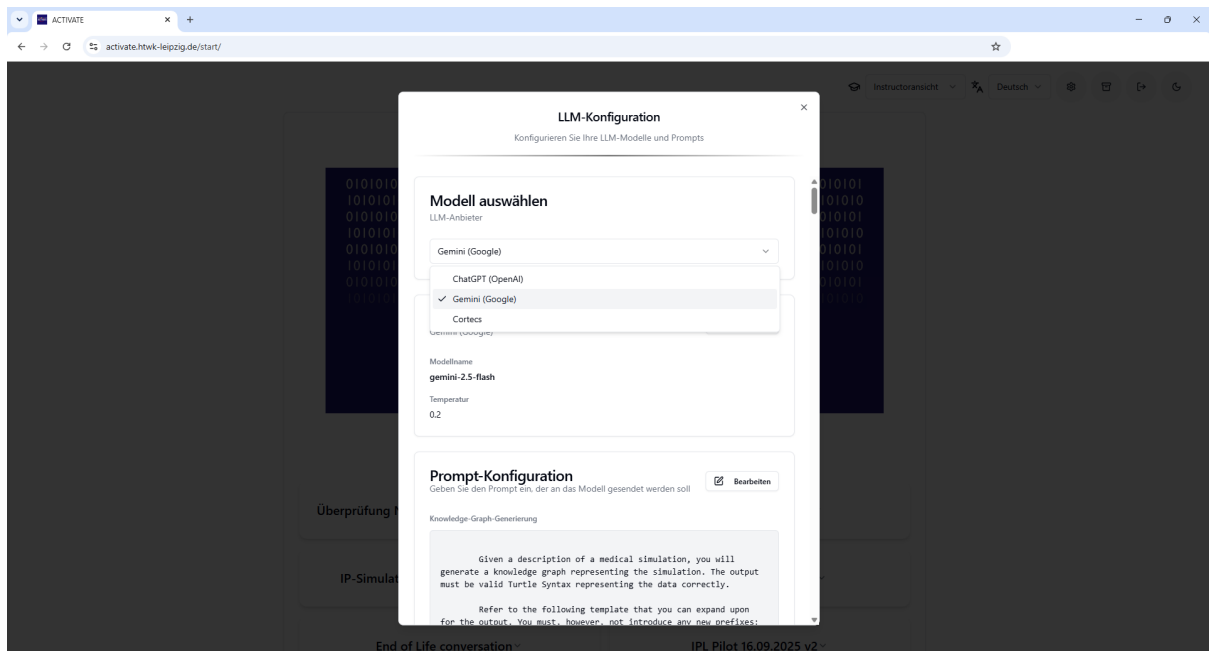


Figure 6. Adjustment of settings

After selecting the activity, the diagram and the tensions will be shown. You can hover over the individual tensions to display the entities and the topic involved (Fig. 7). Clicking on the tensions switches to a more detailed view, where you can see comments that have been made by participants.

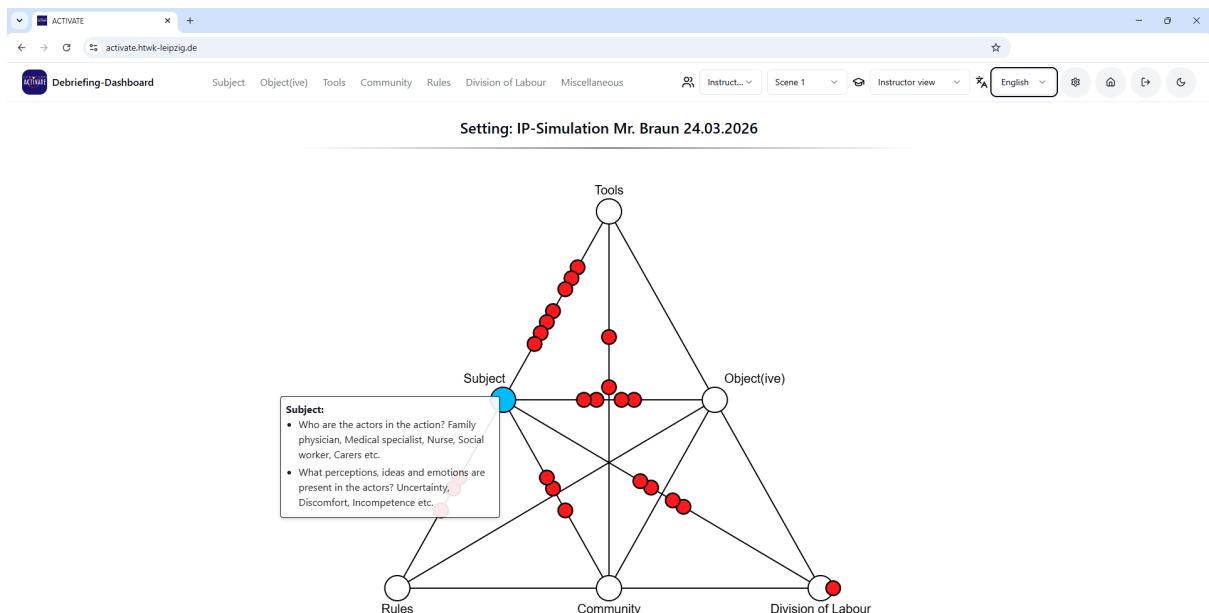


Figure 7. Display of tensions

The instructor can switch between two views - the instructor view and the standard view which is the default for participants.

Using the instructor view, the generated tensions can be edited and new findings can be added (Fig. 8).

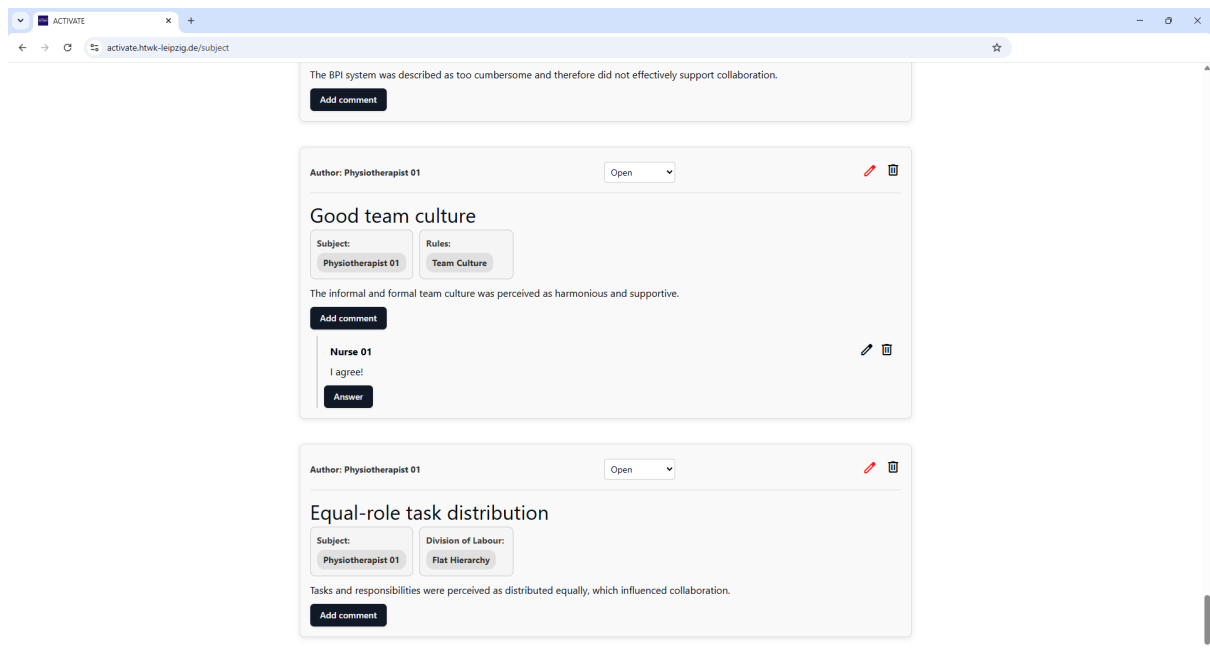


Figure 8. Editing of tensions

You can mark conflicts as 'open' (default), 'in discussion', or 'resolved' using the dropdown menu on the top. This will also change the color of the tension in the diagram (yellow for discussion and green for resolved) and helps the instructor to moderate the debriefing.