

DIT045/DAT355 Exercise 1: Modeling and Creativity

Fall 2020

This document can be found in [Files > Exercise Descriptions](#) on Canvas

Online Organization

We have two tasks this exercise session:

1. If you don't have a group, put you into a group
2. When you have a group, put you into a breakout session so you can start working on the exercise

If you have a group, once per group, tell us your group members in the chat. We will eventually put you in a breakout room in Zoom. You will get a prompt, accept it, then Zoom restarts and you are in a room with your group members. Someone volunteer to share their screen and start working on the exercise described below.

If you need help or have questions, enter the queue here. <http://www.waglys.com/32KeVn>
Make sure to put your breakout room as the name in the queue so we know where to go. Once groups have been sorted, the instructor will visit breakout rooms that need help. If there is time, I may randomly jump into rooms to check for questions.

If you don't have group, type your name in the chat and that you don't have a group. You have two choices:

1. You can be put into a big no-group breakout room. There you can form a group. When you have a group, re-join the main Zoom call and tell us your group.
2. You can ask to be randomly put in a group.

Tell us in the chat whether you want to find a group or be put in one.

Once you have a group, return to the instructions above, tell us your group members, and we'll put you in a breakout room.

The Exercise

Note:

The exercise is not mandatory and not for marks. But it will begin to help you practice and learn what was presented in the lecture and is similar to parts of the assignment. Work on this exercise with your team.

You can hand in your output to E1 in Canvas via PDF. Hand in one per team. There will be selected feedback, but no grades.

Sharing exercise feedback:

I think it is useful not only for you to see the feedback, but for everyone to see each other's feedback. If you want your submission to be anonymous, don't put your names or group name on it. My plan is to group the submissions and the feedback together in one document and make it available. If the feedback is very similar, only a subset of submissions will be included.

Case: Holiday Shopping

You can find a description of an additional case on Holiday Shopping in Canvas: [Files > Exercises > ExerciseCase_ShoppingApp.pdf](#). Use this case in this and future exercises to guide your creativity, models, and requirements.

Creativity

Brainstorming (10 minutes)

Work with your group to brainstorm ideas about the Holiday Shopping case. What else could the application do that is not described above? Remember, there are no bad ideas, the point is to come up with many ideas. Capture your ideas in a list or use digital sticky notes.

Second Creativity Activity (15 minutes)

Pick a second creativity activity, e.g., creativity triggers (<https://prezi.com/t9ggh7ymlijc/creativity-triggers/>), Hall of Fame (<http://brightsparks.city.ac.uk/>), or any other found on <http://becreative.city.ac.uk/>.

Go through the activity and come up with more ideas. Overall, pick your best 5 ideas.

Context Diagram (20 minutes)

Inspired by your ideas and the description, draw a context diagram for Holiday Shopping App. Refer to the lecture for details. Remember to add entities (actors) and relationships which are data exchanges. You can use any electronic tool you like (e.g., draw.io) as long as the meaning of the shapes is clear.

Goal Model (Strategic Dependency) (15 minutes)

Draw an SD goal model for the Holiday Shopping case. Refer to the lecture for details. Remember to add actors as well as goal, task, quality and resource dependencies. Look to your context diagram for inspiration, is everything in that diagram covered here? You can use whatever tool you like. <http://creativeleaf.portal.chalmers.se/> and <https://www.cin.ufpe.br/~jhcp/pistar/> are meant for goal models, specifically.

Scoping (10 minutes)

Now that you've drawn some models, take time to decide what is in and out of your scope. Save a version of your models before scoping, then show what is in our out of scope using your models. You can use the circles in the context diagrams, or cross out elements, actors, or dependencies that are out of scope.

Submit (not for grades)

Hand in a PDF which possibly has the following:

Your list of ideas

Your 5 best ideas

A context diagram before scoping

A Goal Model SD diagram before scoping

A context diagram after scoping

A Goal Model SD diagram after scoping

Save the images to PDF and combine in one PDF file. Make sure the files are readable. Only hand in one file per group to [Exercise 1](#) in Canvas.

How to combine images in one PDF? One idea is to paste readable images into a Word document (or Mac equivalent) and save to PDF. You can also add images to PDFs. As long as the output is clear, there are several ways to do this.