Deadline: Friday April 12th 23:59

DIT184 - Assignment 1
Dutch Tulip Delivery International

Introduction

In this assignment your task is to model a tulip delivery service using a responsibility-driven approach. The case description is given below. This description may miss some information that you think you need. In that case you may make assumptions. You can discuss assumptions with your TA. Please state such assumptions in your hand-in report.

Case description

From everywhere in the world people can order tulips. A person can order a number of tulips of particular type and colour. An order confirmation is sent to the customer.

In the end the ordered tulips should be delivered at an address that was provided. To be sure that the flowers are fresh, local flower shops are involved: the flower-shop that is the nearest to the addressee does the actual delivery (or delegates it to a delivery service).

When a flower-shop is not able to deliver the order directly, it orders new flowers. The client will be notified when the order is available.

Flower-shops acquire their flowers as much as possible from local tulip farms - provided they grow tulips from certified Dutch flower bulbs.

If the tulips are ordered abroad they have to go through customs. The load has to be checked: export/import documents are compared with the actual load. When the documents are not approved, the load is put on hold until a fee is paid by the delivery service.

In addition: regular customers get a free set of tulips (5 pieces) after 10 orders.

Assignment

Build a visual analysis model (a model of the problem domain, so no solution or implementation) for the case description above. You are free to invent your own graphical notation for representing this model. Your model should include at least a structural view and a dynamic (behavioural) view. The structural view should describe the main concepts from the case and the relations between them. The dynamic (behavioural) view should describe relations between events and actions.

Your model should cover the following scenarios:

S1: Michel's birthday is coming up. Dave wants to send him orange tulips. Dave places his order in the Netherlands and the flowers have to arrive in Gothenburg at the date of Michels birthday. Dave pays for this order in the Netherlands.

S2: Alice wants to buy a set of tulips in a local shop. They are not available at that moment. The shop places an order for the tulips and will inform Alice when they arrive.

Approach:
Model as much as possible according to the pair modelling workflow below.

Model criteria:
- The model should include at least a structural-view and a behavioural-view
- Identify particular roles and interactions
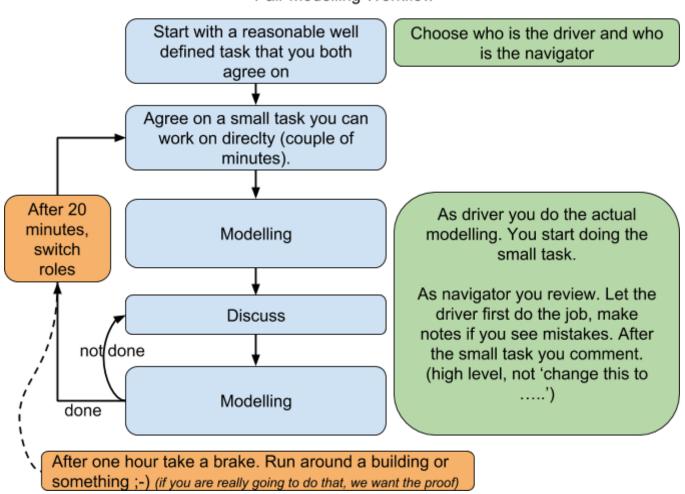- **The notation is free of choice and may be informal**

Deliverables:
- A document (pdf, docx or odt):
  - Front page with names of students
  - The model (one or multiple pages)
  - Textual explanation of the model

Passing criteria
- Documentation is neat (page numbers, frontpage, spelling checked, headings)
- The model meets the model criteria
- S1 and S2 are possible
- The work is peer reviewed (instructions follow)
- Consistency exists between the different views
- The levels of abstraction are aligned

Pair Modelling Workflow

Start with a reasonable well defined task that you both agree on	Choose who is the driver and who is the navigator

Agree on a small task you can work on direclty (couple of minutes).

After 20 minutes, switch roles

Modelling

As driver you do the actual modelling. You start doing the small task.

As navigator you review. Let the driver first do the job, make notes if you see mistakes. After the small task you comment. (high level, not 'change this to …..')

Discuss

not done

done

Modelling

After one hour take a brake. Run around a building or something ;-) *(if you are really going to do that, we want the proof)*