

# HCI part 4: Human task analysis and modelling

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February 2023

## 1 First exercise

The first exercise is the following: *You are asked to model the following scenario (explanations expressed by an expert):*

*One has first to regulate the flow of M3-85 at 200 plus or minus 5. How to operate? One has to first set Reg/3 on On, then to adjust the pump 3 on 0.5, an set Reg/3 on Off. But pay attention, in case of any flow speed problem, the only one solution is to warn the upstream human operators. How to adjust the pump 3 on 0.5? One must actuate T6 on 5, then actuate P6 on about 5, and you must finally ask the rounds man for a refining.*

One possible solution can be seen in figure 1

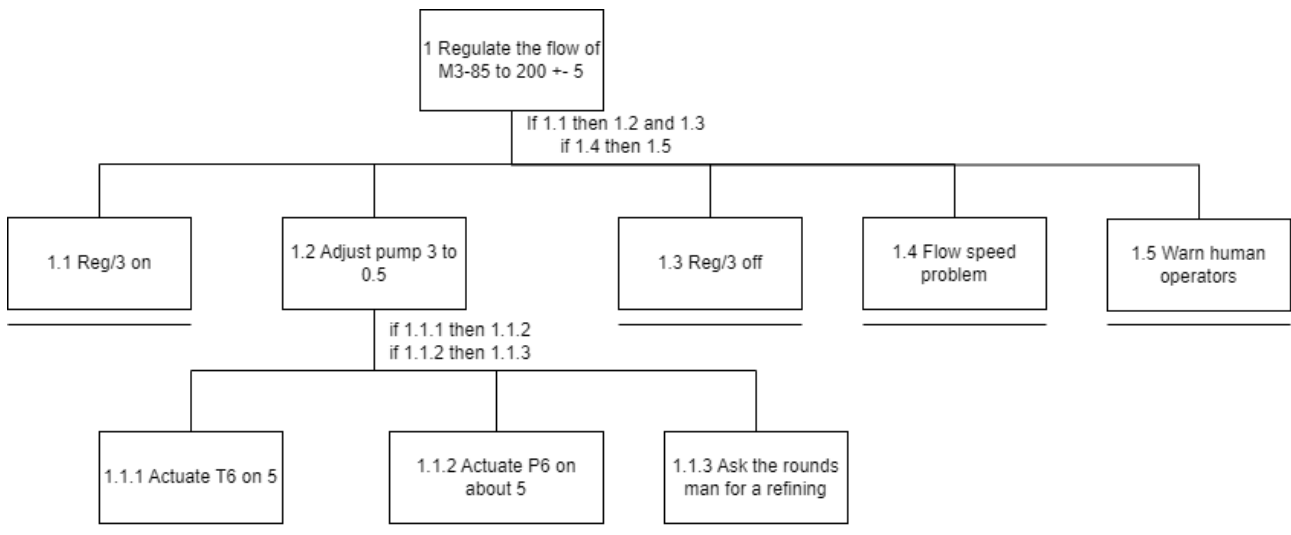


Figure 1: Caption

## 2 Second exercise

The second exercise was the following: *You have to use the CTT method. The scenario is the following (explanations expressed by an expert):*

*You have first to insert your personal card. This one gives access to the possibilities offered by the interactive terminal (kiosk). At the end of the task or at each instant (whatever you were doing), it must be possible to quit. In this case, the personal card is restored to you. During the identification stage, you must type several digits and validate the code. It is checked automatically by the system. Concerning the movie selection, it is possible by category or by alphabetical search. I propose to describe only the search by category (because the principle is globally the same for both modes): you select by category, and then it is possible to select the movie. The selection is stopped as soon as you ask for a return. In this mode, the system displays the list of categories. You have to select one (in the current version, please consider only three possible choices: comedy, thriller, science-fiction). As soon as the selection is done, the system displays the list of movies. The user can do his or her selection. The system displays the sheet of the selected movie (for instance, the sheet of the Dune movie). After reading, the user can confirm his or her selection. In this case, the system stores automatically the exit date and time. Afterwards the system debits the concerned payment.*

One possible solution can be seen in figure 2

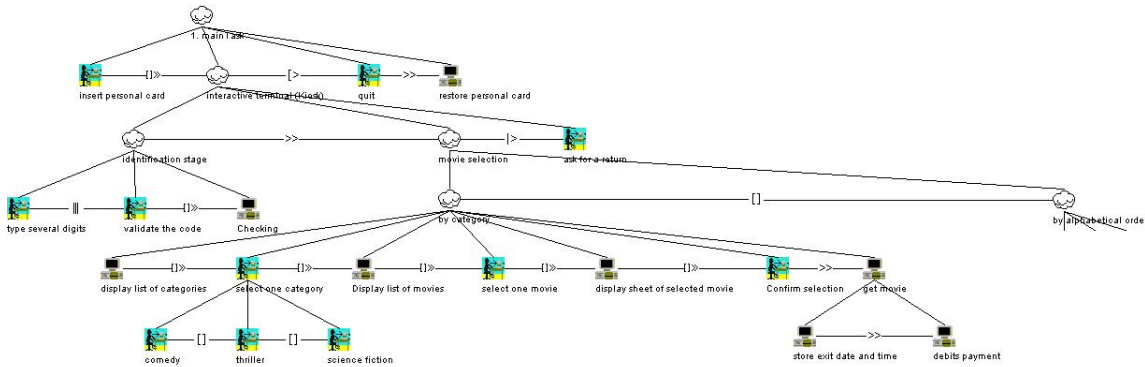


Figure 2: Caption

The task of *selection by alphabetical order* has a similar structure to the *by category*, so it was not reported (as stated in the text also). Also, for the structure of abstract tasks with subtasks of the same type, the CTT editor was changing the abstract task to that of its children (as can be seen in *select one category* or *get movie*).

Some doubts while writing the solution to this exercise are:

- during the identification stage, no temporal order was defined, so I thought that the task of *type several digits* and *validate the code* are interleaved or can be done at the same time, while the *checking* task seems to be referencing only the latter task of *validating the code*
- the iterative aspect of canceling a selection is not very clear to me, I think it is done during the *ask for a return* task, so I used a *suspend* type of interaction between tasks to return to the selection after.