First design of a context and feature model

In the context of our research on context-oriented programming, we have developed a feature-based context-oriented software development approach to help software designers and programmers conceive and prototype feature-based context-oriented systems.

Throughout this semester you will be asked to play the role of potential designers and programmers using our approach to develop feature-based context-oriented systems. Through surveys such as this and oral interviews with you, we will evaluate the strengths and weaknesses of our approach.

We would like to stress the fact that all work performed in the context of this scientific study will be completely anonymous, in other words we will not know the exact names of who responded what to the different surveys. Because of this we ask you to be as complete and precise as possible when responding to open questions, since we won't be able to contact you for clarifying your responses. This scientific study is part of our ongoing research and will not be taken into account for your course grade. Each question will be asked in English but feel free to respond in French or English according to the language you feel most comfortable with to provide precise answers. From now on you have to answer the different surveys by group (except when we ask explicitly that your answers should be individual). Your group is the same as your Moodle group. For this reason, we ask you to choose a unique identifier for your group and to reuse it for the entire semester. This allows us to link the different responses of your group and how you learned throughout the study, while still respecting your anonymity.

The current survey aims to collect your first design of your assigned context-oriented case study. Depending on your group, you will have to model either a smart messenger system or a smart calculator system. In this form we will ask you to submit a PDF containing a lexicon describing the contexts and the features of your context-oriented system, a context and feature model, as well as the mapping between them. You will also be asked what approach and steps you followed to design your assigned system.

This form must be filled out by 6th October 2020, at 8 pm.

*Obligatoire

> ## Anonymous identifier

1. Provide us your anonymous identifier *

    As a reminder, this anonymous identifier allows us to link your responses in the different surveys, while guaranteeing your anonymity. So it is really important that you use the same anonymous identifier during the entire semester!

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Design of your feature-based context-oriented system

2. Submit your PDF report here. Your report must be named   *
   "first_design_X.pdf", where 'X' is your anonymous identifier. Your report
   must contain a lexicon describing the contexts and the features of your
   assigned context-oriented system, a context and feature model of the
   system, as well as the mapping between these models. Ensure you that your
   PDF file does not contain any specific author information in its metadata. (If
   you use LaTeX to create your report and pdflatex to generate the PDF file, it
   will normally not store any author information as metadata in your PDF file.
   But please verify it in any case. If needed, delete this metadata. With this
   you are sure to keep your anonymity.) You PDF file cannot exceed 10MB.

Difficulty of your experiment

3. With this question we want to assess your feeling about the perceived   *
   difficulty of your first experiment in designing a context-oriented systems.
   Can you express, on a Likert scale, how difficult you felt it was to design
   such a system?

   Une seule réponse possible.

	1	2	3	4	5	
Too complex	◯	◯	◯	◯	◯	Too easy

Methodology used

4. Although we did not propose you to use a particular methodology yet to design such a system (we will present you such a methodology later), maybe during this first experience in modelling your assigned case study, you did use some kind of structured approach or series of steps to come up with a relevant set of contexts and features of your system, as well as the mapping between them. With this question we would like to understand what kind of ad-hoc methodology you came up with. What steps did you follow to discover and define relevant features and contexts and the mapping between the two? In what order did you do this? Try to explain your approach in your own words, or just answer this question by writing "We did not follow a specific approach." otherwise. *

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