Using a development methodology to design a second 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 are asked to play the role of potential designers and programmers using a proposed approach and methodology to develop feature-based context-oriented systems. Through surveys such as this and oral interviews, we will evaluate the strengths and weaknesses of the proposed approach and methodology.

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. You are expected to respond to the current survey by group. Your group is the same as your Moodle group. Use the same unique identifier for your group as you used to complete the previous surveys. This allows us to compare the different surveys of your group and how you learned throughout the study, while still respecting your anonymity.

The current survey aims to gather your experience in designing a second feature-based context-oriented case study. As opposed to the first case study, for designing the current case study you were asked to use a particular development methodology introduced in the theory course and at the beginning of the lab session. Depending on your group, you had 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, including the rationale for each context/feature, a context and feature model, as well as the mapping between them with the rationale for each link of your mapping. After that we gather your feedback on your experience with using the proposed development methodology.

This form must be filled out by 13th 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 to 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 using the proposed development methodology

2. Submit your PDF report here. Your report must be named   *
    "second_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, including the rationale of each context/feature of your system, a context and feature model of the system, as well as the mapping between these models, including the rationale for each link of your mapping. Please ensure 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. This way you are sure to maintain your anonymity.) You PDF file cannot exceed 10MB.

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    ### Feedback on the development methodology proposal

3. Did the proposed development methodology help you as context-oriented   *
    designers to better elicit the contexts and features of your context-oriented system?

    Une seule réponse possible.

	1	2	3	4	5	
Not at all	◯	◯	◯	◯	◯	Absolutely

4. Did describing the rationale of the contexts and features help you to decide *
   whether the contexts and features of your context-oriented system are
   relevant?

Une seule réponse possible.

	1	2	3	4	5	
Not at all	◯	◯	◯	◯	◯	Absolutely

5. Did the proposed development methodology help you as context-oriented *
   designers to better structure the contexts and features of your context-
   oriented system? In other words, did it help you to better elaborate and
   organise your context and feature model?

Une seule réponse possible.

	1	2	3	4	5	
Not at all	◯	◯	◯	◯	◯	Absolutely

6. Did the proposed development methodology help you as context-oriented *
   designers to define the mapping from contexts to features, in other words
   what contexts trigger the activation or deactivation of what features?

Une seule réponse possible.

	1	2	3	4	5	
Not all all	◯	◯	◯	◯	◯	Absolutely

7. How do you assess the complexity of using this development methodology *
to design context-oriented systems?

Une seule réponse possible.

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

8. How do you assess the complexity of designing a context-oriented systems *
WITHOUT using such a development methodology?

Une seule réponse possible.

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

9. Based on your experience, do you find this development methodology *
useful for the comprehension of the underlying feature-based context-
oriented development approach?

Une seule réponse possible.

	1	2	3	4	5	
Not at all	◯	◯	◯	◯	◯	Absolutely

10. Can you mention one or more positive aspects of this proposed *
development methodology?

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11. Can you mention one or more less interesting aspects of this development *
methodology?

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12. Do you have any further suggestions regarding how to improve the
proposed methodology to make it easier to develop feature-based context-
oriented systems?

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Ce contenu n'est ni rédigé, ni cautionné par Google.

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