## Feedback on our visualisation tools

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 feelings on our visualisation tools to assess their usefulness and understandability. For each visualisation tool, you will first have to answer ten questions based on a Likert scale to assess the usability of the visualisation tool according to the "System Usability Scale (SUS)". Then we will ask you some detailed questions about the visualisation tool. Then you will have to answer some remaining questions on the interest of using such tools in our approach.

This form must be filled out by 22nd December 2020, at 11:55 pm.

\*Obligatoire

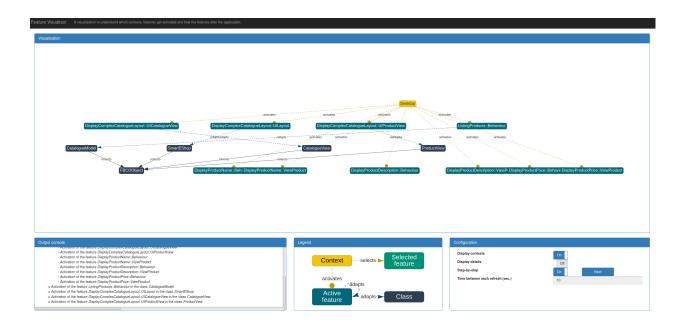
## Anonymous identifier

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!

Feedback on the Feature Visualiser tool (System Usability Scale)

As a reminder, the Feature Visualiser tool is the following visualisation tool. It allows the developer to inspect which contexts are activated, which features are triggered by which contexts and how the classes of the system are adapted by the activated features.



2. (SUS 1) We think that we would like to use this visualisation tool frequently when developing feature-based context-oriented systems.

Une seule réponse possible.



3. (SUS 2) We found the visualisation tool unnecessarily complex. \*

Une seule réponse possible.



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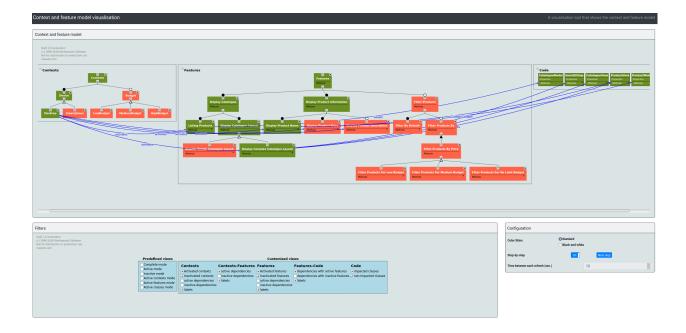
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7.	Explain ho			isualisa	ation ca	an/canı	not help you to debug such a	
8.	Mention s	some p	ositive	e aspec	cts of tl	nis pro	posed visualisation tool. *	
9.	Mention s	some le	ess inte	erestin	g aspe	cts of t	this proposed visualisation tool	. *

20.	Do you have any further suggestions regarding how to improve the proposed visualisation tool to make it easier to unerstand/develop/debug feature-based context-oriented systems? (Optional)

Feedback on the Context and Feature Model Visualiser tool (System Usability Scale)

As a reminder, the Context and Feature Model Visualiser tool is the following visualisation tool. It allows the developer to have a complete overview (i.e. the active and unactive entities) of the feature-based context-oriented system. It displays the context and feature model as well as the mapping model between them, and also shows which classes of the system are/have to be adapted by which features.



Feedback on our	visualisation tools
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29.	(SUS 9) We felt ve	ery con	fident	using t	he visu	ualisat	ion tool. *	
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01.	) in this visualisa						ski model, redi	are model,
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32.	Is the *dynamic* model,) in this	•						eature *
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	Hard to understand	d			)		Easy to under	rstand

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33.	Do you think this visualization tool is more interesting with regard to its static or its dynamic visualisation aspects?	*
	Une seule réponse possible.	
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34.	Does such a visualisation tool help you to better understand such an approach when you develop feature-based context-oriented programs?	*
	Une seule réponse possible.	
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	Not at all Absolutely	
35.	Explain how/why you think this visualisation tool helps you to better understand or not such an approach when you develop feature-based context-oriented systems. (Optional)	
36.	Mention some positive aspects of this proposed visualisation tool. *	
50.	Mention some positive aspects of this proposed visualisation tool.	

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