Studying students' affective state in CS1 labs using affective survey software - User Evaluation (demo version)

Thank you for agreeing to participate in my study.

My name is Evie Stokes, and I am a final year undergraduate student from the University of Glasgow. I am conducting this evaluation for my application 'iFeel' developed as my final year project. The purpose of this study is to evaluate the ability of 'iFeel' to investigate students' affective state in CS1 (Computer Science 1 course) labs using affective survey software.

CS1 is commonly referred to as the introductory courses for Computer Science. The content and level of CS1 courses can vary depending on the institution and program, but they are typically designed for students with little to no prior background in computer science. These courses have been known to elicit an emotional response, and this survey will be examining iFeel's ability to evaluate these responses and give valuable insights.

This survey is pertaining to the demo of the application. If you have access to the iFeel application on an ios device, please follow this link https://forms.gle/zKcxtmb3SfzBSfii7 to a survey which will allow you to evaluate the application with scenario tests.

Your involvement in this study is important as it will allow me to collect data from a range of different perspectives. During the experiment, you will view demos of the application for students and tutors. The demo will portray the main characteristics of the affective survey software. It will follow that there will be questions pertaining to the application demo, and your opinion of it.

Your identity will be kept confidential and anonymous. Your participation is voluntary, and you are free to withdraw from the study at any time.

The survey will take less than 15 minutes to complete.

It is important to note that this is not a test of your ability in any way, and I simply want to gather your opinions and experiences.

If you have any questions or concerns about this study, please contact the researcher Evie Stokes at 2444030s@student.gla.ac.uk, otherwise you can contact the supervisor for this dissertation, Mireilla Bikanga Ada, mireilla.bikangaada@glasgow.ac.uk. If you have any concerns about your rights as a research participant, please contact the University of Glasgow's Ethics Committee at ethics@glasgow.ac.uk.

If at any point during the study you wish to withdraw your participation, you have the right to withdraw at any time without any negative consequences. If you do decide to withdraw, any data collected from you up to that point will be deleted and not included in the study. If you have any questions or concerns about withdrawing from the study, please contact the researcher.

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1.	I understand the above and consent to taking part in this survey *
	Mark only one oval.
	Yes

Demographic Questions

۷.	Did you ever study Computer Science at university level?
	Mark only one oval.
	Yes
	No
	Other:
3.	What is your age?
	Mark only one oval.
	Under 18
	18-24
	25-29
	30-34
	35+

Affective State Definition

If the participant does not have an understanding of affective state, an affective state is a psychological term that refers to the emotional and feeling-based experiences of an individual. It encompasses a range of emotions, moods, and feelings that someone may experience at a particular time or over an extended period. These emotions can be positive or negative, and the intensity of the emotions can vary widely. Affective state is often described using a combination of emotional dimensions, such as valence (positive or negative), arousal (level of intensity), and dominance (sense of control or power).

iFeel Demo

Please watch **BOTH** demos and then move on to the survey questions.

A video demonstration of the student app being used Click here for demo https://youtu.be/fj74t1oCuZE

Questions about the demos

A video demonstration of the tutor app being used Click here for demo https://youtu.be/4lncwwXRPBw

Using the videos depicting the main parts of this application, the next part of the survey will use SUS - A quick and dirty usability scale (Brooke, J. (1996)) to examine your thoughts on the usability of the application.

4. I think that I would like to use this system frequently.

ark or	nly one oval.
	Strongly Disagree
1	
2	
3	
4	
5	
	Strongly Agree

5. I found the system appeared unnecessarily complex.

Mark only one oval.

	Strongly Disagree
1	
2	
3	
4	
5	
	Strongly Agree

6. I thought the system appeared easy to use.

Mark o	nly one oval.
	Strongly Disagree
1	
2	
3	
4	
5	
	Strongly Agree

7. I think that I would need the support of a technical person to be able to use this system.

Mark only one oval.

	Strongly Disagree
1	
2	
3	
4	
5	
	Strongly Agree

8. I found the various functions in this system were well integrated.

Mark only one oval.		
	Strongly Disagree	
1		
2		
3		
4		
5		
	Strongly Agree	

9. I thought there was too much inconsistency in this system.

Strongly Disagree

1
2
3
4
5
Strongly Agree

10. I would imagine that most people would learn to use this system very quickly.

aik Ui	ily one oval.
	Strongly Disagree
1	
2	
3	
4	
5	
	Strongly Agree

11. The system appears very cumbersome to use.

Mark only one oval.

	Strongly Disagree
1	
2	
3	
4	
5	
	Strongly Agree

Final Questions

What did	n't you like about t	he application	1?	
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Do you l	ave any other con	nments on the	e application?	

Debrief

Thank you for participating in this study, which aimed to investigate students' affective state in CS1 labs using affective survey software. The study was conducted by Evie Stokes, studying at the University of Glasgow.

During the study, you were asked to complete a survey regarding software evaluating CS1 students' affective states. The purpose of the study was to gain a better understanding of the ability of the software to be useful when evaluating a student's affective state.

I would like to assure you that all data collected from you during the study will be kept confidential and will only be used for the purpose of the research. Your participation in the study was completely voluntary, and you were free to withdraw at any time.

If you have any questions or concerns about the study, please do not hesitate to contact the researcher, Evie Stokes, at <u>2444030s@student.gla.ac.uk</u>.

Thank you again for your participation in this study.

15.	Please leave any other feedback here

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