Research Information and Participants' Consent Form: **Interactive Surface – Target Tapping**

Purpose. You are invited to participate in a research study, Interactive Surface – Target Tapping, being conducted by Shawn Adam, Patrick Boutet, Aaron Padlesky, and Eddie Santos in the course CMPUT 302: Human-Computer Interaction under the supervision of Dr. Walter F. Bischof, of the Department of Computing Science, University of Alberta. This study examines the ease of use and the effectiveness of an application that we are developing for the Glenrose Rehabilitation Hospital. We are interested in determining how well both patients and therapists will be able to learn how to use our application effectively. Our application is a game that allows therapist to create different targeting tapping environments for patients with reduced mobility or motor control. The goal of this study is to determine if our application is intuitive and easy to learn by therapists without providing training. As well, we wish to know how well the patients may be able to understand the game part of the application in which they will be expected to interact with.

Your participation. Your participation involves acting as a representative for perspective therapists. First we will explain in more detail how the system works, and what it is to be used for. We will then ask you to take the role of a potential therapist and design a targeting environment as it might be used for a patient. We will record the time it takes you to create this environment. It is not a race to finish the environment as fast a possible, but rather we want to know how long it takes to use and understand the application under normal conditions. We will then ask you to fill out a questionnaire rating the usability and performance of the application. After this we will provide a quick tutorial on the application, answering any questions you may have about using the application or creating the targeting environment. We will repeat the previous analysis and record your updated time to use the application and the updated perceptions on usability and performance. Our goal is to identify any issues that the user may face when using this application. Next we will simply ask you to play the target taping game you created and rate its usability only once. Your identity in no way will be linked to your results or questionnaire. Upon the completion of this course the questionnaires will be disposed of. The experiment should take about *15* minutes to complete. You will not receive compensation of any kind for participating in this study.

Your rights. Your decision to participate in this study is entirely voluntary and you may decide to withdraw at any time. Your decision not to participate will not affect access to services from the University of Alberta. Your performance records will remain confidential and anonymous. Our data file will NOT contain any personal identifiers (ie. names or student ID numbers). The results of this study will be presented in the CMPUT 302 course, but may also be presented at scholarly conferences and published in professional journals. Only grouped (aggregate) data will be presented.

Benefits and risks. This research can potentially contribute to the advancement of our understanding of user friendly application design. The more we improve user friendliness and usability the more productive computer users become. This saves everyone time, effort and money. There are no foreseeable risks to this study.

Contact information. If you have any questions or comments on the study, or if you wish a clarification of rights as a research participant, you can contact Shawn Adam, Patrick Boutet, Aaron Padlesky, Eddie Santos or Dr. Walter Bischof at the number and address below.

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Signatures. Please sign below to indicate that you have read and understood the nature and purpose of the study. Your signature acknowledges the receipt of a copy of the consent from as well as indicates your willingness to participate in this study.

_____ _____

Participant's Signature Date

_____ _____

Researcher's Signature Date