 Bahen Centre for Information Technology

40 St. George Street; Toronto, ON., M5S 2E4

HCI Experimental Study for:

TouchBand: A Pressure-Sensitive Wristband as Input for Smartwatches

**Consent Form**

**Investigators:**

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**About the study:**

The purpose of this study is to evaluate the use of a touch-sensitive wristband as the input method for *scrolling* and *zooming* tasks on a smartwatch. The experiment is conducted on a prototype of a touch-sensitive wristband to examine if users are more comfortable with using the wristband as an input method for scrolling and zooming and to see if it can deliver faster scrolling speed and higher zooming accuracy compared to touchscreen.

**Process to be followed:**

The entire experiment will last around 30 minutes. It is divided into three parts. If you have any question or concerns during any part, please let us know.

Part 1 – Training:

1. You will complete a small questionnaire.
2. You will be given training on how to use our touch-wristband prototype (and the smartwatch display touchscreen if you don’t know already).
3. You will be given 3 minutes to explore the tools on your own and adapt to them.
4. You will be given a practice trial by doing one scrolling task and one zooming task.

Part 2 – Trials:

1. You must complete 4 trials. Each trial will last up to 5 minutes.
2. The four trials are (they may not be in this order):
   1. Using the smartwatch display touchscreen, scroll up and down a list until you find the desired item then tap on the screen. This will be repeated 10 times.
   2. Using the smartwatch display touchscreen, zoom in and zoom out until the colored square fits the screen perfectly then tap on the screen. This will be repeated 10 times.
   3. Using the touch-wristband prototype, scroll up and down a list until you find the desired item then tap on the wristband. This will be repeated 10 times.
   4. Using the touch-wristband prototype, zoom in and zoom-out until the colored square fits the screen perfectly then tap on the wristband. This will be repeated 10 times.
3. We will be observing you while you do your trials for data collection purposes.

Part 3 – Survey:

1. You will have to complete a one-page survey about your experience with the different input methods.

**How the data collected will be used:** Data collected will be used for analysis and may also be used for class project presentations and other research presentations. Although this is only a course project in its current form, this project may, at a later date, be extended by one or more of the student investigators to form the basis of their thesis research and/or be submitted as a research publication.

**Confidentiality**: The results of your participation will be reported without any reference to you specifically. All information that you provide will be stored in Canada. It will be treated confidentially and your identity will not be revealed in reporting the study results. We request you do not discuss the details of this experiment with anyone.

**Data Retention:** Identifiable data will be stored securely. All data from individual participants will be coded so that their anonymity will be protected in any reports, research papers, thesis documents, and presentations that result from this work.

**Compensation:** There is no compensation for participating in this study.

**Risk and benefits:** There is no risk associated with this experiment. The only benefit will be to contribute to the education of the investigators

**Contact for information about the rights of research subjects:** If you have any concerns about your treatment or rights as a research subject, you may contact the UofT Research and Innovation Office at 416-978-7905.

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, have read the explanation about this study. I have been given the opportunity to discuss it and my questions have been answered to my satisfaction. I hereby consent to take part in this study. However, I realize that my participation is voluntary and that I am free to withdraw at any time.

**Participant’s Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Investigator’s Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Investigator’s Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_