Exit Survey –Group 6

Subject ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Age:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Gender: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Major: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Arm Length: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Do you own a personal computer (eg: desktop, laptop, netbook)?

[ ] yes [ ] No

2. How much time do you spend on a computer each week?

[ ] 0 to 1 hour [ ] 21 to 30 hours

[ ] 1 to 5 hours [ ] 31 to 40 hours

[ ] 6 to 10 hours [ ] 41 to 50 hours

[ ] 11 to 20 hours [ ] More than 50 hours

3. Have you used gestural controllers before (Xbox Kinect, Leap Motion, or any other gesture device)?

If so please indicate the type of device.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Do you have any physical impairment that makes it difficult to use a computer? If so please list the

impairment

[ ] Yes (please state) : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[ ] No

5. Which is your dominant hand?

[ ] Right hand [ ] Left hand [ ] Ambidextrous

6. Which hand do you normally use to control the mouse?

[ ] Right [ ] Left

**Round 1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **General Indices** | **Most negative** | |  | **Most positive** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Operation Smoothness |  |  |  |  |  |
| Operational Effort |  |  |  |  |  |
| Accuracy |  |  |  |  |  |
| Operation speed |  |  |  |  |  |
| General comfort |  |  |  |  |  |
| Overall operation |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fatigue Indices** | **Extreme** | |  | **None** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Finger fatigue |  |  |  |  |  |
| Wrist fatigue |  |  |  |  |  |
| Arm fatigue |  |  |  |  |  |
| Shoulder fatigue |  |  |  |  |  |
| Neck fatigue |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Effort** | | | **Effort** |
| **Arm** | **Shoulder** | **Neck** |
| ( ) 10 | ( ) 10 | ( ) 10 | Very, very strong (almost max.) |
| ( ) 9 | ( ) 9 | ( ) 9 |  |
| ( ) 8 | ( ) 8 | ( ) 8 |  |
| ( ) 7 | ( ) 7 | ( ) 7 | Very strong |
| ( ) 6 | ( ) 6 | ( ) 6 |  |
| ( ) 5 | ( ) 5 | ( ) 5 | Strong (heavy) |
| ( ) 4 | ( ) 4 | ( ) 4 | Somewhat strong |
| ( ) 3 | ( ) 3 | ( ) 3 | Moderate |
| ( ) 2 | ( ) 2 | ( ) 2 | Weak (light) |
| ( ) 1 | ( ) 1 | ( ) 1 | Very weak |
| ( ) 0.5 | ( ) 0.5 | ( ) 0.5 | Very, very weak (just noticeable) |
| ( ) 0 | ( ) 0 | ( ) 0 | Nothing at all |

**Round 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **General Indices** | **Most negative** | |  | **Most positive** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Operation Smoothness |  |  |  |  |  |
| Operational Effort |  |  |  |  |  |
| Accuracy |  |  |  |  |  |
| Operation speed |  |  |  |  |  |
| General comfort |  |  |  |  |  |
| Overall operation |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fatigue Indices** | **Extreme** | |  | **None** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Finger fatigue |  |  |  |  |  |
| Wrist fatigue |  |  |  |  |  |
| Arm fatigue |  |  |  |  |  |
| Shoulder fatigue |  |  |  |  |  |
| Neck fatigue |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Effort** | | | **Effort** |
| **Arm** | **Shoulder** | **Neck** |
| ( ) 10 | ( ) 10 | ( ) 10 | Very, very strong (almost max.) |
| ( ) 9 | ( ) 9 | ( ) 9 |  |
| ( ) 8 | ( ) 8 | ( ) 8 |  |
| ( ) 7 | ( ) 7 | ( ) 7 | Very strong |
| ( ) 6 | ( ) 6 | ( ) 6 |  |
| ( ) 5 | ( ) 5 | ( ) 5 | Strong (heavy) |
| ( ) 4 | ( ) 4 | ( ) 4 | Somewhat strong |
| ( ) 3 | ( ) 3 | ( ) 3 | Moderate |
| ( ) 2 | ( ) 2 | ( ) 2 | Weak (light) |
| ( ) 1 | ( ) 1 | ( ) 1 | Very weak |
| ( ) 0.5 | ( ) 0.5 | ( ) 0.5 | Very, very weak (just noticeable) |
| ( ) 0 | ( ) 0 | ( ) 0 | Nothing at all |

**Round 3**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **General Indices** | **Most negative** | |  | **Most positive** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Operation Smoothness |  |  |  |  |  |
| Operational Effort |  |  |  |  |  |
| Accuracy |  |  |  |  |  |
| Operation speed |  |  |  |  |  |
| General comfort |  |  |  |  |  |
| Overall operation |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fatigue Indices** | **Extreme** | |  | **None** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Finger fatigue |  |  |  |  |  |
| Wrist fatigue |  |  |  |  |  |
| Arm fatigue |  |  |  |  |  |
| Shoulder fatigue |  |  |  |  |  |
| Neck fatigue |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Effort** | | | **Effort** |
| **Arm** | **Shoulder** | **Neck** |
| ( ) 10 | ( ) 10 | ( ) 10 | Very, very strong (almost max.) |
| ( ) 9 | ( ) 9 | ( ) 9 |  |
| ( ) 8 | ( ) 8 | ( ) 8 |  |
| ( ) 7 | ( ) 7 | ( ) 7 | Very strong |
| ( ) 6 | ( ) 6 | ( ) 6 |  |
| ( ) 5 | ( ) 5 | ( ) 5 | Strong (heavy) |
| ( ) 4 | ( ) 4 | ( ) 4 | Somewhat strong |
| ( ) 3 | ( ) 3 | ( ) 3 | Moderate |
| ( ) 2 | ( ) 2 | ( ) 2 | Weak (light) |
| ( ) 1 | ( ) 1 | ( ) 1 | Very weak |
| ( ) 0.5 | ( ) 0.5 | ( ) 0.5 | Very, very weak (just noticeable) |
| ( ) 0 | ( ) 0 | ( ) 0 | Nothing at all |

**Round 4**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **General Indices** | **Most negative** | |  | **Most positive** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Operation Smoothness |  |  |  |  |  |
| Operational Effort |  |  |  |  |  |
| Accuracy |  |  |  |  |  |
| Operation speed |  |  |  |  |  |
| General comfort |  |  |  |  |  |
| Overall operation |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fatigue Indices** | **Extreme** | |  | **None** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Finger fatigue |  |  |  |  |  |
| Wrist fatigue |  |  |  |  |  |
| Arm fatigue |  |  |  |  |  |
| Shoulder fatigue |  |  |  |  |  |
| Neck fatigue |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Effort** | | | **Effort** |
| **Arm** | **Shoulder** | **Neck** |
| ( ) 10 | ( ) 10 | ( ) 10 | Very, very strong (almost max.) |
| ( ) 9 | ( ) 9 | ( ) 9 |  |
| ( ) 8 | ( ) 8 | ( ) 8 |  |
| ( ) 7 | ( ) 7 | ( ) 7 | Very strong |
| ( ) 6 | ( ) 6 | ( ) 6 |  |
| ( ) 5 | ( ) 5 | ( ) 5 | Strong (heavy) |
| ( ) 4 | ( ) 4 | ( ) 4 | Somewhat strong |
| ( ) 3 | ( ) 3 | ( ) 3 | Moderate |
| ( ) 2 | ( ) 2 | ( ) 2 | Weak (light) |
| ( ) 1 | ( ) 1 | ( ) 1 | Very weak |
| ( ) 0.5 | ( ) 0.5 | ( ) 0.5 | Very, very weak (just noticeable) |
| ( ) 0 | ( ) 0 | ( ) 0 | Nothing at all |

**Round 5**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **General Indices** | **Most negative** | |  | **Most positive** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Operation Smoothness |  |  |  |  |  |
| Operational Effort |  |  |  |  |  |
| Accuracy |  |  |  |  |  |
| Operation speed |  |  |  |  |  |
| General comfort |  |  |  |  |  |
| Overall operation |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fatigue Indices** | **Extreme** | |  | **None** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Finger fatigue |  |  |  |  |  |
| Wrist fatigue |  |  |  |  |  |
| Arm fatigue |  |  |  |  |  |
| Shoulder fatigue |  |  |  |  |  |
| Neck fatigue |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Effort** | | | **Effort** |
| **Arm** | **Shoulder** | **Neck** |
| ( ) 10 | ( ) 10 | ( ) 10 | Very, very strong (almost max.) |
| ( ) 9 | ( ) 9 | ( ) 9 |  |
| ( ) 8 | ( ) 8 | ( ) 8 |  |
| ( ) 7 | ( ) 7 | ( ) 7 | Very strong |
| ( ) 6 | ( ) 6 | ( ) 6 |  |
| ( ) 5 | ( ) 5 | ( ) 5 | Strong (heavy) |
| ( ) 4 | ( ) 4 | ( ) 4 | Somewhat strong |
| ( ) 3 | ( ) 3 | ( ) 3 | Moderate |
| ( ) 2 | ( ) 2 | ( ) 2 | Weak (light) |
| ( ) 1 | ( ) 1 | ( ) 1 | Very weak |
| ( ) 0.5 | ( ) 0.5 | ( ) 0.5 | Very, very weak (just noticeable) |
| ( ) 0 | ( ) 0 | ( ) 0 | Nothing at all |

**Round 6**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **General Indices** | **Most negative** | |  | **Most positive** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Operation Smoothness |  |  |  |  |  |
| Operational Effort |  |  |  |  |  |
| Accuracy |  |  |  |  |  |
| Operation speed |  |  |  |  |  |
| General comfort |  |  |  |  |  |
| Overall operation |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fatigue Indices** | **Extreme** | |  | **None** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Finger fatigue |  |  |  |  |  |
| Wrist fatigue |  |  |  |  |  |
| Arm fatigue |  |  |  |  |  |
| Shoulder fatigue |  |  |  |  |  |
| Neck fatigue |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Effort** | | | **Effort** |
| **Arm** | **Shoulder** | **Neck** |
| ( ) 10 | ( ) 10 | ( ) 10 | Very, very strong (almost max.) |
| ( ) 9 | ( ) 9 | ( ) 9 |  |
| ( ) 8 | ( ) 8 | ( ) 8 |  |
| ( ) 7 | ( ) 7 | ( ) 7 | Very strong |
| ( ) 6 | ( ) 6 | ( ) 6 |  |
| ( ) 5 | ( ) 5 | ( ) 5 | Strong (heavy) |
| ( ) 4 | ( ) 4 | ( ) 4 | Somewhat strong |
| ( ) 3 | ( ) 3 | ( ) 3 | Moderate |
| ( ) 2 | ( ) 2 | ( ) 2 | Weak (light) |
| ( ) 1 | ( ) 1 | ( ) 1 | Very weak |
| ( ) 0.5 | ( ) 0.5 | ( ) 0.5 | Very, very weak (just noticeable) |
| ( ) 0 | ( ) 0 | ( ) 0 | Nothing at all |

**Round 7**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **General Indices** | **Most negative** | |  | **Most positive** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Operation Smoothness |  |  |  |  |  |
| Operational Effort |  |  |  |  |  |
| Accuracy |  |  |  |  |  |
| Operation speed |  |  |  |  |  |
| General comfort |  |  |  |  |  |
| Overall operation |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fatigue Indices** | **Extreme** | |  | **None** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Finger fatigue |  |  |  |  |  |
| Wrist fatigue |  |  |  |  |  |
| Arm fatigue |  |  |  |  |  |
| Shoulder fatigue |  |  |  |  |  |
| Neck fatigue |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Effort** | | | **Effort** |
| **Arm** | **Shoulder** | **Neck** |
| ( ) 10 | ( ) 10 | ( ) 10 | Very, very strong (almost max.) |
| ( ) 9 | ( ) 9 | ( ) 9 |  |
| ( ) 8 | ( ) 8 | ( ) 8 |  |
| ( ) 7 | ( ) 7 | ( ) 7 | Very strong |
| ( ) 6 | ( ) 6 | ( ) 6 |  |
| ( ) 5 | ( ) 5 | ( ) 5 | Strong (heavy) |
| ( ) 4 | ( ) 4 | ( ) 4 | Somewhat strong |
| ( ) 3 | ( ) 3 | ( ) 3 | Moderate |
| ( ) 2 | ( ) 2 | ( ) 2 | Weak (light) |
| ( ) 1 | ( ) 1 | ( ) 1 | Very weak |
| ( ) 0.5 | ( ) 0.5 | ( ) 0.5 | Very, very weak (just noticeable) |
| ( ) 0 | ( ) 0 | ( ) 0 | Nothing at all |

**Round 8**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **General Indices** | **Most negative** | |  | **Most positive** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Operation Smoothness |  |  |  |  |  |
| Operational Effort |  |  |  |  |  |
| Accuracy |  |  |  |  |  |
| Operation speed |  |  |  |  |  |
| General comfort |  |  |  |  |  |
| Overall operation |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fatigue Indices** | **Extreme** | |  | **None** | |
|  | 1 | 2 | 3 | 4 | 5 |
| Finger fatigue |  |  |  |  |  |
| Wrist fatigue |  |  |  |  |  |
| Arm fatigue |  |  |  |  |  |
| Shoulder fatigue |  |  |  |  |  |
| Neck fatigue |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Effort** | | | **Effort** |
| **Arm** | **Shoulder** | **Neck** |
| ( ) 10 | ( ) 10 | ( ) 10 | Very, very strong (almost max.) |
| ( ) 9 | ( ) 9 | ( ) 9 |  |
| ( ) 8 | ( ) 8 | ( ) 8 |  |
| ( ) 7 | ( ) 7 | ( ) 7 | Very strong |
| ( ) 6 | ( ) 6 | ( ) 6 |  |
| ( ) 5 | ( ) 5 | ( ) 5 | Strong (heavy) |
| ( ) 4 | ( ) 4 | ( ) 4 | Somewhat strong |
| ( ) 3 | ( ) 3 | ( ) 3 | Moderate |
| ( ) 2 | ( ) 2 | ( ) 2 | Weak (light) |
| ( ) 1 | ( ) 1 | ( ) 1 | Very weak |
| ( ) 0.5 | ( ) 0.5 | ( ) 0.5 | Very, very weak (just noticeable) |
| ( ) 0 | ( ) 0 | ( ) 0 | Nothing at all |

7. Please rank the interactions from most preferred (1), to least preferred (8).

Interaction 1 \_\_\_\_\_ Interaction 2\_\_\_\_\_ Interaction 3\_\_\_\_\_ Interaction 4\_\_\_\_\_

Interaction 5\_\_\_\_\_ Interaction 6\_\_\_\_\_ Interaction 7\_\_\_\_\_ Interaction 8\_\_\_\_\_