## Questionnaire for HoloLens QoE Evaluation

| Tester          | ID:  |            | Nan         | ne:                                |            |           | Gender: □M □F                       |  |
|-----------------|--|------------|-------------|------------------------------------|------------|-----------|-------------------------------------|--|
| Email:          |  |            |             |                                    |            |           | Application Name: RoboRaid          |  |
| Your age range: |  | □10-19     | l-19 □20-29 |                                    | □3         | 0-39      | □40-49 □50+                         |  |
| (1)             | Did you ev   | er experi  | ence P      | okemon                             | Go or      | other A   | R applications? $\Box Y \Box N$     |  |
| (2)             | If yes, how  | many tii   | nes? [      | □ 1-5                              | $\Box$ 5   | 5-10      | □ 10+                               |  |
| (3)             | Did you eve  | er experi  | ence no     | on-conta                           | ict gestu  | ıre cont  | rol applications, e.g. Xbox Kinect  |  |
| (-)             | $\square Y \square N$                                      | · · ·      |             |                                    | 8          |           | 71                                  |  |
| (4)             | If yes, how  | mony ti    | mac? [      | 715                                |            | 5 10      | □ 10+                               |  |
| (4)             | ii yes, now  | many m     | nes: L      | <b>_1</b> -3                       |            | )-10      | □ 10+                               |  |
| 1               | To what ex   | tent did t | he dev      | ice prov                           | zide real  | listic vi | sual information?                   |  |
| 1.              | To what extent did the device provi<br>Not realistic       |            |             |                                    |            | iistic vi | Completely realistic                |  |
|                 | 140t Tearisti  | 1          | 2           | 3                                  | 4          | 5         | completely realistic                |  |
| 2               | To what ex   | -          |             | _                                  |            |           | dio information?                    |  |
| 2.              | Not realisti   |            | ine ac v    | ree pro                            | 140 100    | iistic aa | Completely realistic                |  |
|                 | 1,0010011501   | 1          | 2           | 3                                  | 4          | 5         | completely realisate                |  |
| 3.              | To what ex   | tent did t | the app     | lication                           | require    | your fo   | ocus/attention level?               |  |
|                 | Not at all   |            | 11          |                                    | 1          | J         | Completely focus                    |  |
|                 |  | 1          | 2           | 3                                  | 4          | 5         | 1                                   |  |
| <b>G1</b> : Ba  | ased on your   | ratings    | for Q1-     | 3, pleas                           | se give a  | a genera  | al rating for the content quality?  |  |
|                 | Very bad   |            |             |                                    |            |           | Very good                           |  |
|                 |  | 1          | 2           | 3                                  | 4          | 5         |                                     |  |
| 4.              | To what ex   | tent coul  | d you 1     | e device?                          |            |           |                                     |  |
|                 | Not at all   |            |             |                                    |            |           | Completely free                     |  |
|                 |  | 1          | 2           | 3                                  | 4          | 5         |                                     |  |
| 5.              | To what extent do you feel comfortable wearing the device? |            |             |                                    |            |           |                                     |  |
|                 | Not comfor   | rtable     |             |                                    |            |           | Very comfortable                    |  |
|                 |  | 1          | 2           |                                    |            | 5         |                                     |  |
| <b>G2</b> : Ba  |  | ratings    | for Q4-     | 5, pleas                           | se give a  | a genera  | al rating for the hardware quality? |  |
|                 | Very bad   |            |             |                                    |            | _         | Very good                           |  |
| _               |  | 1          | . 2         | 3                                  | 4          | 5         |                                     |  |
| 6.              |  | tent did t | he mea      | contents fit the real environment? |            |           |                                     |  |
|                 | Not at all   | 1          | 2           | 2                                  | 4          | ~         | Completely fit                      |  |
| 7               | Tr. 1 4  | 1          | 2 .         | 3                                  | 4          | 5         | 1 , 5', 1 1 ' , 40                  |  |
| 7.              |  | tent dia t | ne posi     | elements fit the real environment? |            |           |                                     |  |
|                 | Not at all   | 1          | 2           | 3                                  | 4          | 5         | Completely fit                      |  |
| O               | To what are  |            |             |                                    |            |           | aicaly ahanga with anyimanmantal    |  |
| 8.              | changes?   | tent coul  | u me a      | ррисац                             | JII COIILE | ants pre  | cisely change with environmental    |  |
|                 | changes:   |            |             |                                    |            |           |                                     |  |

|               | Not at all  |           |               |                                       |           |           | Completely precisely                    |  |  |  |
|---------------|---|-----------|---------------|---------------------------------------|-----------|-----------|---|--|--|--|
|               |   | 1         | 2             | 3                                     | 4         | 5         |   |  |  |  |
| 9.            | To what extent could the application contents quickly change with environmental |           |               |                                       |           |           |   |  |  |  |
|               | changes?  |           |               |                                       |           | -         |   |  |  |  |
|               | Not at all  |           |               |                                       |           |           | Very quickly                            |  |  |  |
|               |   | 1         | 2             | 3                                     | 4         | 5         |   |  |  |  |
| <b>G3</b> : B | ased on your  | ratings   | for Q7        | -10, ple                              | ease giv  | e a gen   | eral rating for the environmental       |  |  |  |
|               | standing?   | C         |               | , 1                                   | C         | C         | C                                       |  |  |  |
|               | Very bad  |           |               |                                       |           |           | Very good                               |  |  |  |
|               | Ĭ   | 1         | 2             | 3                                     | 4         | 5         | , ,                                     |  |  |  |
| 10            | . To what ext   | tent do   | you thi       | nk the g                              | gesture i | interacti | ion design (e.g. air-tap gesture is     |  |  |  |
|               | shooting) is  | -         |               |                                       | ,         |           |   |  |  |  |
|               | Not at all  |           |               |                                       |           |           | Very natural                            |  |  |  |
|               |   | 1         | 2             | 3                                     | 4         | 5         | <b>3</b>                                |  |  |  |
| 11            | . To what ext   | ent do v  | ou thin       | k the vo                              | oice inte | raction   | design (e.g. say "X-Ray" for see-       |  |  |  |
|               | through sup   | •         |               |                                       |           |           |   |  |  |  |
|               | Not at all  | r - · · · | ,             |                                       |           |           | Very natural                            |  |  |  |
|               |   | 1         | 2             | 3                                     | 4         | 5         | <b>3</b>                                |  |  |  |
| 12            | . To what ext   | ent do v  | ou thin       | k the bo                              | odv mov   | vement    | interaction design (e.g. move to        |  |  |  |
|               | avoid enemy   | •         |               |                                       | J         |           |   |  |  |  |
|               | Not at all  | ,         | ,             |                                       |           |           | Very natural                            |  |  |  |
|               |   | 1         | 2             | 3                                     | 4         | 5         | <b>3</b>                                |  |  |  |
| 13            | . To what ex  | tent do   | vou th        | nink the                              | e systen  |           | nd precisely to your interaction        |  |  |  |
|               | instructions  |           | <i>J</i>      |                                       | J         | 1 1       | r i i i j i j i i j i i i i i i i i i i |  |  |  |
|               | Not at all  |           |               |                                       |           |           | Completely precise                      |  |  |  |
|               | _ , , , , , , , , , , , , , , , , , , ,   | 1         | 2             | 3                                     | 4         | 5         | reserve process                         |  |  |  |
| 14            | . To what ex  | tent do   | vou t         | _                                     | e syste   | _         | ond quickly to your interaction         |  |  |  |
|               | instructions'   |           | <i>y</i> = 1. |                                       | J         | P         | The factors of first continues          |  |  |  |
|               | Not at all  |           |               |                                       |           |           | Very quickly                            |  |  |  |
|               | 1,00000   | 1         | 2             | 3                                     | 4         | 5         | , orly quantity                         |  |  |  |
| <b>G4:</b> B  | ased on your  |           |               |                                       |           |           | ral rating for the user interaction?    |  |  |  |
| 0.1.2         | Very bad  |           |               | 10, p10                               | 615 B1 (  | 80110     | Very good                               |  |  |  |
|               |   | 1         | 2             | 3                                     | 4         | 5         | , 8                                     |  |  |  |
|               |   | •         | -             | J                                     | •         | · ·       |   |  |  |  |
| Please        | give a grade.   | over 10   | 00. for 1     | the <b>ove</b> i                      | rall qua  | lity of 1 | this AR experience:/100                 |  |  |  |
|               | ther commen   |           |               |                                       | _         | <b></b>   |   |  |  |  |
| Signat        |   |           |               |                                       |           |           |   |  |  |  |
| •             | you for parti   | cipating  | in this       | studv!                                |           |           |   |  |  |  |
|               | J   | 1         | ,             | · · · · · · · · · · · · · · · · · · · |           |           |   |  |  |  |