# Questionnaire for HoloLens QoE Evaluation

Tester ID: ___          Name: _____          Gender: ☐M ☐F

Email: _____          Application Name: *RoboRaid*

Your age range:   ☐10-19      ☐20-29      ☐30-39      ☐40-49      ☐50+

   (1) Did you ever experience Pokemon Go or other AR applications?  ☐Y ☐N

   (2) If yes, how many times?  ☐ 1-5        ☐ 5-10        ☐ 10+

   (3) Did you ever experience non-contact gesture control applications, e.g. Xbox Kinect?
     ☐Y ☐N

   (4) If yes, how many times?  ☐ 1-5        ☐ 5-10        ☐ 10+

1. To what extent did the device provide realistic visual information?
   Not realistic                                             Completely realistic
         1        2        3        4        5

2. To what extent did the device provide realistic audio information?
   Not realistic                                             Completely realistic
         1        2        3        4        5

3. To what extent did the application require your focus/attention level?
   Not at all                                             Completely focus
         1        2        3        4        5

**G1**: Based on your ratings for Q1-3, please give a general rating for the content quality?
   Very bad                                             Very good
         1        2        3        4        5

4. To what extent could you move freely wearing the device?
   Not at all                                             Completely free
         1        2        3        4        5

5. To what extent do you feel comfortable wearing the device?
   Not comfortable                                             Very comfortable
         1        2        3        4        5

**G2**: Based on your ratings for Q4-5, please give a general rating for the hardware quality?
   Very bad                                             Very good
         1        2        3        4        5

6. To what extent did the meaning of the augmented contents fit the real environment?
   Not at all                                             Completely fit
         1        2        3        4        5

7. To what extent did the position of the augmented elements fit the real environment?
   Not at all                                             Completely fit
         1        2        3        4        5

8. To what extent could the application contents precisely 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

**G3**: Based on your ratings for Q7-10, please give a general rating for the environmental understanding?

Very bad                               Very good

           1      2      3      4      5

10. To what extent do you think the gesture interaction design (e.g. air-tap gesture is shooting) is natural?

Not at all                               Very natural

           1      2      3      4      5

11. To what extent do you think the voice interaction design (e.g. say "X-Ray" for see-through superpower) is natural?

Not at all                               Very natural

           1      2      3      4      5

12. To what extent do you think the body movement interaction design (*e.g.* move to avoid enemy attack) is natural?

Not at all                               Very natural

           1      2      3      4      5

13. To what extent do you think the system respond precisely to your interaction instructions?

Not at all                               Completely precise

           1      2      3      4      5

14. To what extent do you think the system respond quickly to your interaction instructions?

Not at all                               Very quickly

           1      2      3      4      5

**G4:** Based on your ratings for Q11-15, please give a general rating for the user interaction?

Very bad                               Very good

           1      2      3      4      5

Please give a grade, over 100, for the **overall quality** of this AR experience:     ___/100

Any other comments about this user study?

Signature: _____

Thank you for participating in this study!