## **XR Interaction Test3 – Questionnaire**

## **Participant Information**

[√] Yes [] No

Participant ID:
Age:23
Gender: <u>male</u>
VR Experience Level:
[] Beginner [√] Intermediate [] Advanced
Task 1: Toolbox Location and Tool Switching
Were you able to clearly find the location of the toolbox in the scene? [ $\checkmark$ ] Yes [ ] No
Were you able to <b>successfully switch between different tools</b> (for example, different brush sizes or the eraser)? $[\ \ \ \ \ ]$ Yes $[\ ]$ No
Please rate how <b>convenient</b> the tool switching was (1 = Very Inconvenient, 5 = Very Convenient):
1 □ 2 □ 3 □ 4 □ 5 □
Open-ended Question:
In many other VR painting applications, tools are switched using a virtual menu on
the user's non-dominant hand.
In this prototype, the switching is done through <b>physical grabbing and changing</b> . Which method feels more natural or easier to use for you, and why?
This prototype's physical grabbing method is more natural for me, it makes me feel
more immersed. There were no false touches or failure to pick up the tool during the
experience, so I can also say it is easy to use.
Task 2: Pigment Picking and Placement

Were you able to successfully pick and take a pigment from the pigment box?

[ √] Yes [] No
Please rate how <b>intuitive</b> the color-picking process felt (1 = Very Unintuitive, 5 = Very Intuitive):
1 □ 2 □ 3 □ 4 □ 5 □
Open-ended Question: In previous versions, users needed to keep a specific distance between the brush tip and the palette to pick a color. This time, the pigment-ball system was used instead. Did this change make the interaction feel more natural? If you still had difficulties, please describe them or give suggestions for improvement.
Task 3: Joystick Mixing System
Were you able to understand and complete the <b>color-mixing operation using the left joystick rotation</b> ?
left joystick rotation? [ √] Yes [] No
left joystick rotation?
<pre>left joystick rotation? [ √] Yes [] No Please rate how easy the joystick mixing was to use (1 = Very Difficult, 5 = Very Easy):</pre>
<pre>left joystick rotation? [ √] Yes [] No  Please rate how easy the joystick mixing was to use (1 = Very Difficult, 5 = Very Easy): 1 □ 2 □ 3 □ 4 □ 5 □  Please rate how natural and realistic the mixing effect felt (1 = Very Unnatural, 5 =</pre>
<pre>left joystick rotation? [ √] Yes [] No  Please rate how easy the joystick mixing was to use (1 = Very Difficult, 5 = Very Easy): 1 □ 2 □ 3 □ 4 □ 5 □  Please rate how natural and realistic the mixing effect felt (1 = Very Unnatural, 5 = Very Natural):</pre>

<u>further immersion</u>

## **Overall Experience**

Please rate how <b>intuitive</b> the overall interaction experience was (1 = Not Intuitive, 5 = Very Intuitive):
1 □ 2 □ 3 □ 4 □ 5 □
Please rate how <b>enjoyable</b> the overall experience was (1 = Not Enjoyable, 5 = Very Enjoyable):
1 □ 2 □ 3 □ 4 □ 5 □

## **Open-ended Question:**

Please describe which part of this experience you liked the most and what could be improved.

I think the brush part could be improved a bit further, if you could reflect the current dipped color on the brush just