Quantitative Results

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| User | T1\_time\_s | T1\_errors | T2\_time\_s | T2\_errors | T3\_time\_s | T3\_errors |
| U1 | 24 | 1 | 23 | 0 | 27 | 2 |
| U2 | 13 | 0 | 19 | 1 | 12 | 0 |
| U3 | 28 | 2 | 32 | 0 | 9 | 0 |
| U4 | 22 | 1 | 28 | 0 | 16 | 0 |
| U5 | 21 | 1 | 26 | 1 | 7 | 0 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **User** | **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **SUS score** | **Letter Grade** |
| U1 | 5 | 2 | 3 | 4 | 5 | 1 | 4 | 2 | 3 | 2 | 72.5 | C |
| U2 | 4 | 2 | 3 | 3 | 5 | 2 | 4 | 3 | 2 | 1 | 67.5 | D |
| U3 | 3 | 1 | 4 | 4 | 5 | 2 | 4 | 2 | 3 | 1 | 72.5 | C |
| U4 | 5 | 1 | 4 | 2 | 4 | 1 | 5 | 2 | 4 | 2 | 85.0 | A |
| U5 | 5 | 2 | 4 | 1 | 3 | 2 | 4 | 1 | 4 | 2 | 80.0 | B |

Qualitative Notes

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| --- | --- | --- |
| User | Think Aloud | End question-What is one thing you would fix? |
| U1 | * I keep forgetting I have to hold to join. * It’d be nicer if everyone started unmuted and showed up green. | For task 2, after sitting, face other users’ avatars. |
| U2 | * Task 2 is a bit unclear, I don’t know if I can I sit here or not. * A little hint would help. * Also, the zipper mute is tiny and hard to click. | Use a central axis for rotating planets; left-click to rotate the axis instead of right-dragging planets. |
| U3 | * I can’t tell if the rotation is working, it feels unresponsive. * Please add an Exit for task 2 and 3. * That small black bar isn’t clear. * A speaker icon would help. | Provide clearer cues for how joining occurs in Task 1. |
| U4 | * Rotating to pick a planet feels awkward. * I just found out F lets me sit, stand, and switch seats, which is cool. | Allow avatar to fly to the planet; dragging the planet itself can be confusing. |
| U5 | * Right-click dragging is a bit fiddly. * Movement feels good though. * The zipper should be bigger. | Make zipper control larger a |