

Dissertation Proposal

**COMP360 - Accessible Games in Care Homes using Novel Interfaces and
Interaction Design: Factors Affecting Technology Acceptance**

1605240

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1 Proposal

For my dissertation I begun by doing lots of research into how blind people played games as this was something I found interesting, I found out there are lots of ways in which they can play them these days, however after doing more research I figured this would be too difficult to achieve due to there not being enough blind subjects I could find in the area. I decided to do some more research, this time into the elderly, and thought about using the ways the make games for the blind but instead use it to make them for the elderly in the hopes of making it more accessible for them.

Since my team game is looking like its going to be a first or third person shooter I knew this wouldnt be appropriate for the area I want to research, this type of game is not commonly played by the blind or the elderly. For my study I want to make a point click game that encourages the elderly to keep their brain active and have an enjoyable experience as well as making them actually want to play it. I want to make 3 separate interfaces, 2 will be using a mouse and 1 with a controller. These interfaces will each have the same functionality but the way you interact with them will be different. I want

to find out what they think it the easiest for the elderly to use. Since blind / hard of seeing people are only really able to play the simplest of games without a lot of effort and practise I thought itd be good to apply some of the ways they make games so the elderly could play as well, this involves lots of sounds, large graphics and an easy to read interface. I plan to find out what factors play the biggest roles in making the easiest to navigate interface while still feeling immersed and why they havent become more mainstream.

Video games have a large range of benefits to those of all ages and the elderly are no different.

An obvious ethical concern for this idea is the permissions Ill need to obtain to get myself into a care home and find willing participants, the whole project basically depends on this. Id need to write up a contract essentially which theyd have to sign before they could participate which would state everything that was going to occur and if it was alright to use their data in my study. The data would be destroyed safely after use to prevent data misuse.

[1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11]

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