**Similar software researched**

Dulux visualizer – an app distributed by Dulux which allows users to virtually test out their range of paint by applying it to their walls in an augmented reality environment.

The core functionality is strong; if we could manage similar results with some minor tweaks it would be ideal.

Drawbacks:

* Inability to paint connecting walls separate colours.
* No differentiation between ceiling and walls.
* Objects too similar in colour to the walls get misinterpreted as being part of the wall and change colour along with it.

Thoughts on their implementation:

* The software must utilise colour detection and then recolour anything within a certain “colour distance” to match the desired colour. This leads to both drawbacks, but allows for a very intuitive user-experience of simply tapping where you want to paint and it filling in the rest.
* While the errors in detection are frustrating, when working it manages to look very smooth. I believe it isn’t going through pixel by pixel and recolouring each one.