Bi-Weekly Report 1

Date: *15/10/2015*

Project: *MSF Google Project 1*

Project Title: *Video and sensor display on the Google Cardboard*

(Previously: Alzheimer's Experience using the Google Cardboard)

Team Members:

Garrett May (Team Leader)

Hekla Helgadóttir

Overview

The Alzheimer's Project utilising the Google Cardboard that we were intended to do has now been handed over to a different, much larger team. This was talked about during our first meeting with the client.

Meetings

Date: *15/10/2015*

Attendees:

Dr Dean Mohamedally

Usama Inam

Garrett May

Hekla Helgadóttir

Carla Hyenne

Daniel Eldar

Aron Monszpart

We discussed the future of the Alzheimer's Project, and the deliberations of Alzheimer's Research UK (ARUK) and the rest of the Google team. They have decided that, due to the increased requirements of the project, and the deadline for a more finished product by the end of January, it was decided that the scope of the project would become too large for us to work on, and so they have decided to move the project to a larger team. As a result, a new project briefing was held, which still involved the cooperation of Google, but also introduced a different charity, Médecins Sans Frontières (MSF). The brief described a drone with a camera (a GoPro, or a variation of a 360-camera) with several sensors, which would send data to the Google Cardboard and display it in a suitable fashion. Live-video feed and different types of data, such as depth, will be displayed for viewing on the Google

Cardboard, with the current concept of the video playing in the background, and sensor data displayed overlaid on top.

Completed Tasks and Project Projection

We have discussed with the client the new project brief. Currently, as we are at the very beginning, the project seems viable and on schedule, though we will need to research some topics. As it stands, we estimate a demo will be available by January.

Problems to be resolved

We will need to research the types of sensor data and types of sensors we should use. Importantly, these should be as small as possible, as the drone we are using may not be able to hold that many. An alternative would be to hack into the drone in such a way that we can implement the sensors within the drone.

We will also need to work out how to send live-video to the Google Cardboard. Live-streaming may be difficult as it requires lots of data to be sent, as well as reducing latency.

Displaying the video feed and the sensor outputs is another problem. We need to be able to display it to the user in a GUI fashion. Sensors should act like plugins, in the way that they should be able to be added or removed as needed (as described by the Adaptor design pattern).

Plan

We should begin researching in order to begin solving several of the upcoming problems. We may also like to look at the drones we will be given, or possibly find a different drone to make use of. Structuring when, with whom and how often our future meetings will be held is another task to be done.

Workload

Garrett:

No tasks have been worked on in the initial week, as we have only just made contact with our client and received the project briefing.

Hekla:

No tasks have been worked on in the initial week, as we have only just made contact with our client and received the project briefing.