

## Meeting Minutes

Date: 2 May 2019

Location: Imperial College

Present:

Project Group	Joshua Rizal Chan, Lua Ying Hao, Ng Yi Song, Patrick John Chia, Joel Yeow
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### Agenda

1. Discuss administrative details of meeting at IBM Hursley on 3 May 19
2. Discuss outline of project as presented by IBM at group projects presentation
3. Discuss possible concerns regarding the feasibility of implementation

### Minutes

Item	Action By
<b>1. <u>Administrative Details.</u></b> <ul style="list-style-type: none"><li>• Booked train tickets from London to Winchester</li><li>• Discussed method of transport for onward journey from Winchester to IBM Hursley</li><li>• To look into whether transport costs can be claimed from department, and method of claiming</li></ul>	Joshua Chan
<b>2. <u>Sign Language.</u></b> Presentation of project emphasised sign language interpretation as core capability of project. <ul style="list-style-type: none"><li>• To clarify which sign language to interpret -- ASL, BSL, Makaton</li><li>• To clarify extent of sign language knowledge necessary</li><li>• To clarify whether we need to create our own dataset, or whether datasets are already available</li></ul>	All
<b>3. <u>Electronic Hardware.</u></b> Discussed possible electronic hardware implementations, and any possible problems that might surface, as well as how to address them. <ul style="list-style-type: none"><li>• Hardware mentioned on group project presentation is Raspberry Pi</li><li>• Possible major hardware limitation as Pi does not have built-in GPU for computer vision</li><li>• Possible workaround would be to SSH into a server, send video feed via Internet to server</li><li>• However, WiFi has to be strong enough for the device to be sufficiently responsive with low latency</li><li>• To clarify hardware provision by IBM</li></ul>	All
<b>4. <u>Other Hardware.</u></b> How complex device hardware implementation needs to be. <ul style="list-style-type: none"><li>• Possible interface options: buttons, tactile switches (such</li></ul>	All

- as those on Paro, a robot meant for use with the elderly)
- To clarify on interface requirements
- To clarify whether movement of device has to be implemented -- if so, require motors, 3D printed parts, etc
- To clarify what hardware resources are provided

5. **Analysing Data for Patterns**. Another capability mentioned in project presentation; group discussed possible meanings and possible implementations.

All

- To clarify whether data is meant to be stored only, or whether it is meant to be stored and analysed using machine learning
- Possibly only storing data to be analysed later by medical professionals
- Could implement mood tracking using machine learning

6. **Sensors**. Project presentation mentions inclusion of additional sensors.

All

- Possible sensors: light sensors, ambient sound sensors
- To clarify requirements regarding sensors, and hardware provision by IBM

#### Action Items

S/N	Para	Action	Party	Deadline
1.	1	To look into whether transport costs can be claimed from department, and method of claiming	Joshua Chan	-
2.	2	To clarify details and extent of sign language interpretation	All	3 May 19
3.	3	To clarify electronic hardware provision by IBM	All	3 May 19
4.	4	To clarify what extent of hardware implementation (in terms of interface and movement) are necessary	All	3 May 19
5.	4	To clarify physical hardware provision by IBM	All	3 May 19
6.	5	To clarify requirement for pattern analysis in data	All	3 May 19
7.	6	To clarify requirements regarding	All	3 May 19

		sensors, and sensor hardware provision by IBM		
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