First Presentation

Bangor Health Clinic Group

Swansea University

November 21, 2021

Initial Meeting

- Thursday 18th November.
- Fleshed out project brief.
- Discussed potential budget.
- Came out with 2 options for the final product.

The 2 Options

- A wearable device
- A non-wearable device

The 2 Options

- A
- A

Wearable Device

Likely a watch that will include an accelerometer. The watch will detect when the patient is moving and should the second device on the walking aid not detect movement, a calming voice (family member) will remind the patient to use their walking aid.

The 2 Options

Non-Wearable Device

Likely a pressure pad that detects when the patient is no longer sitting/lying on the pad. Should the second device on the walking aid not detect movement within a time period of pressure not being detected on the pad, a calming voice (family member) will remind the patient to use their walking aid.

- A
- A

Hardware Choices

- Arduino.
- TinyPICO devices using ESP32 chips (18mm x 32mm).
- Accelerometers with pressure pads (maybe).
- Potentially a 3D printer for prototyping the devices.

Next Steps

- Meet with client again to finalise user requirements.
- Begin developing milestone 1 document.
- Procure hardware needed to develop the project.