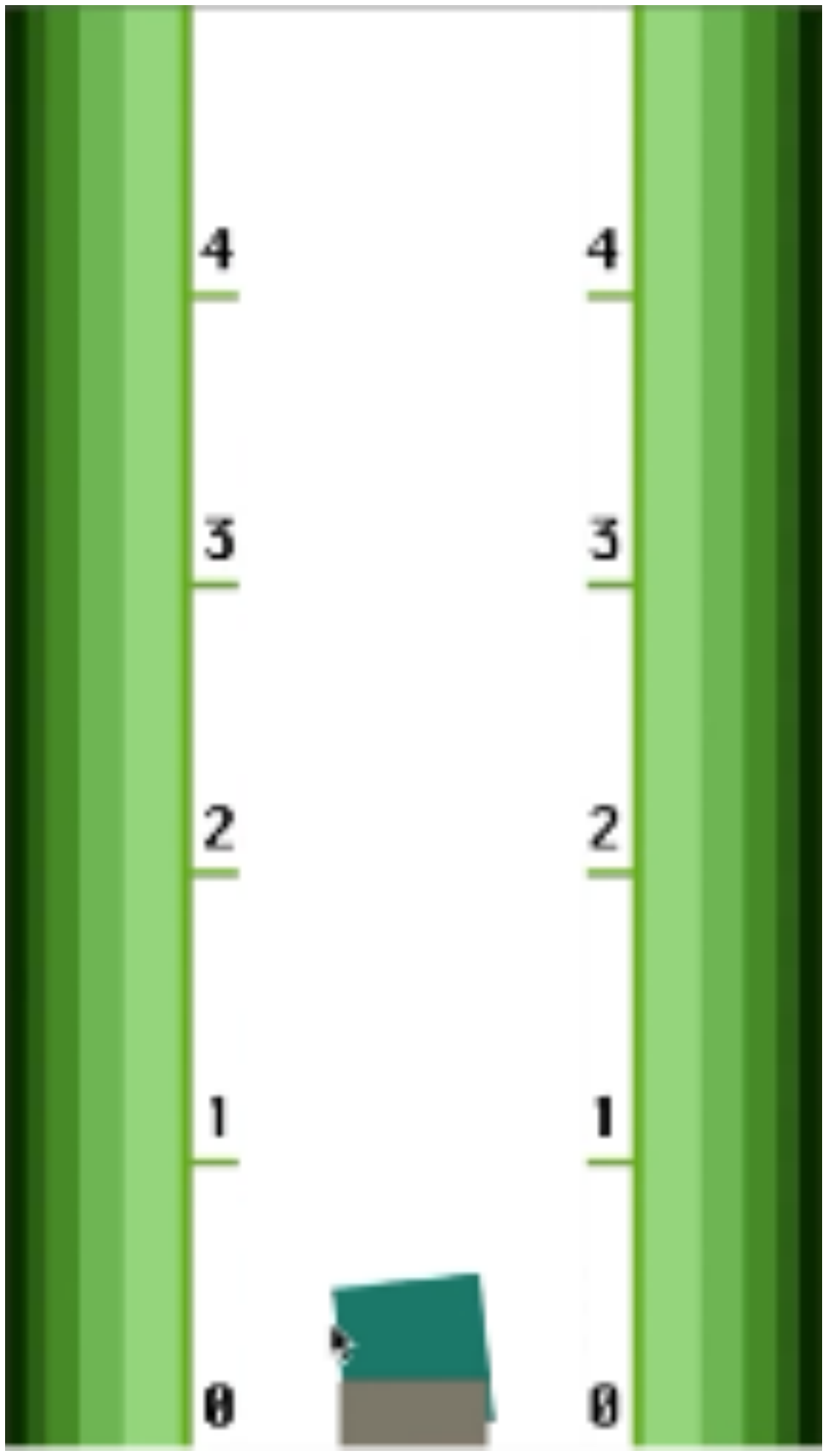
Prototype

The real time feedback was given as shown in the screen in the middle. The patient was required to follow the grey square, whereas the green square was mimicking the motion of their foot. If rotational movement was detected, the green square turned red.

The exercise being demoed here is Dynamic Quadriceps, to strengthen the hamstrings. This data was then recorded and shown to the patients through a webpage.


4
3
2
1
0
4
3
2
1
0

Realtime feedback

POAKme

My Exercises

Welcome, Kaushik!

Dates

14/11/19

15/11/19

16/11/19

17/11/19

18/11/19

19/11/19

20/11/19

This is your dashboard. Records of all the exercises you do will be kept here.

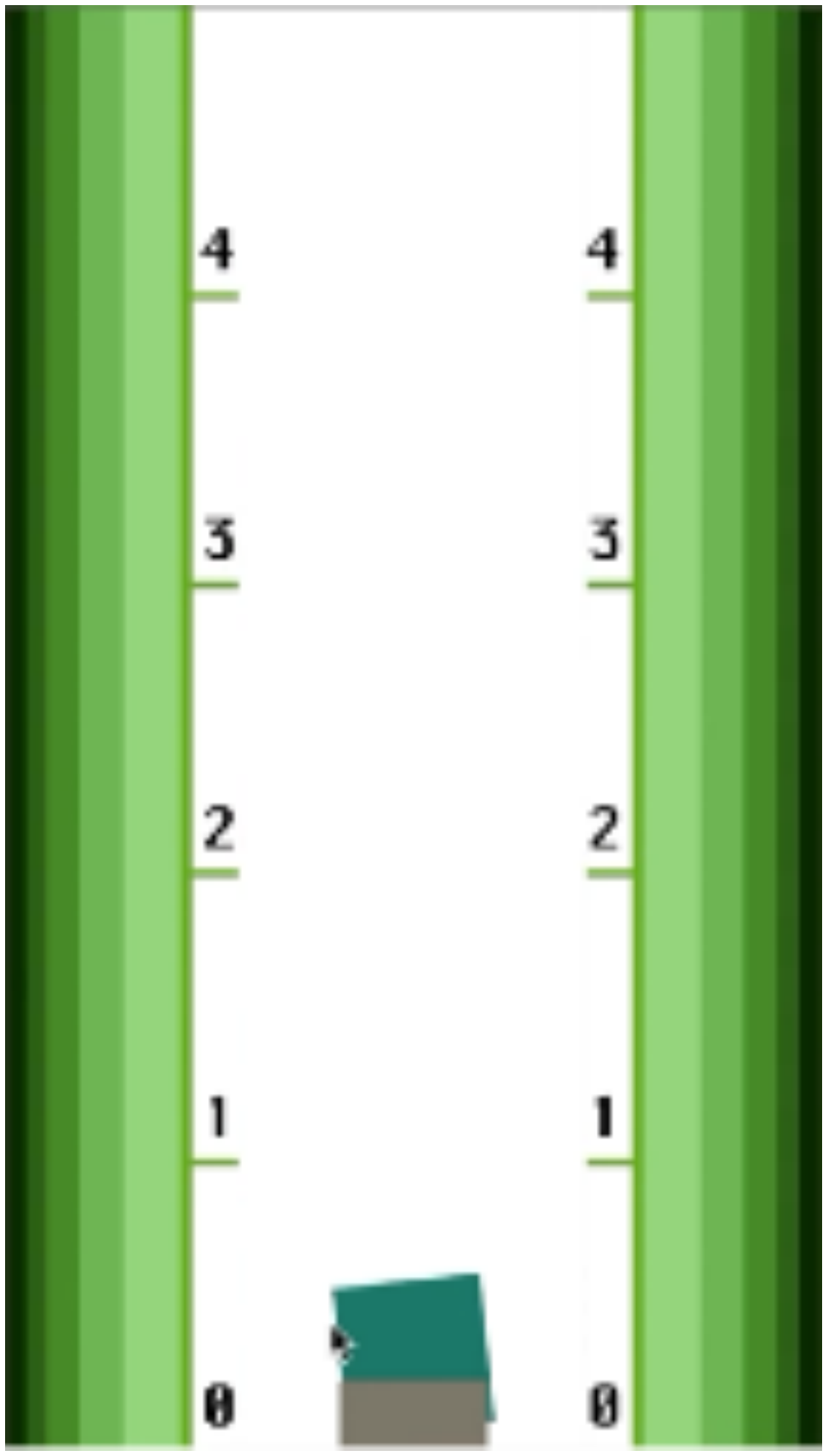
Dynamic Quadriceps

Straight Leg Raising

Session 1 **Number of repetitions: 6** **Highest Range of Motion achieved: 111.4°**

Pain Levels **Number of Sessions: 1**

Sample link: https://avyayrkashyap.github.io/GSTH/EG02L_1_DQ.html


4
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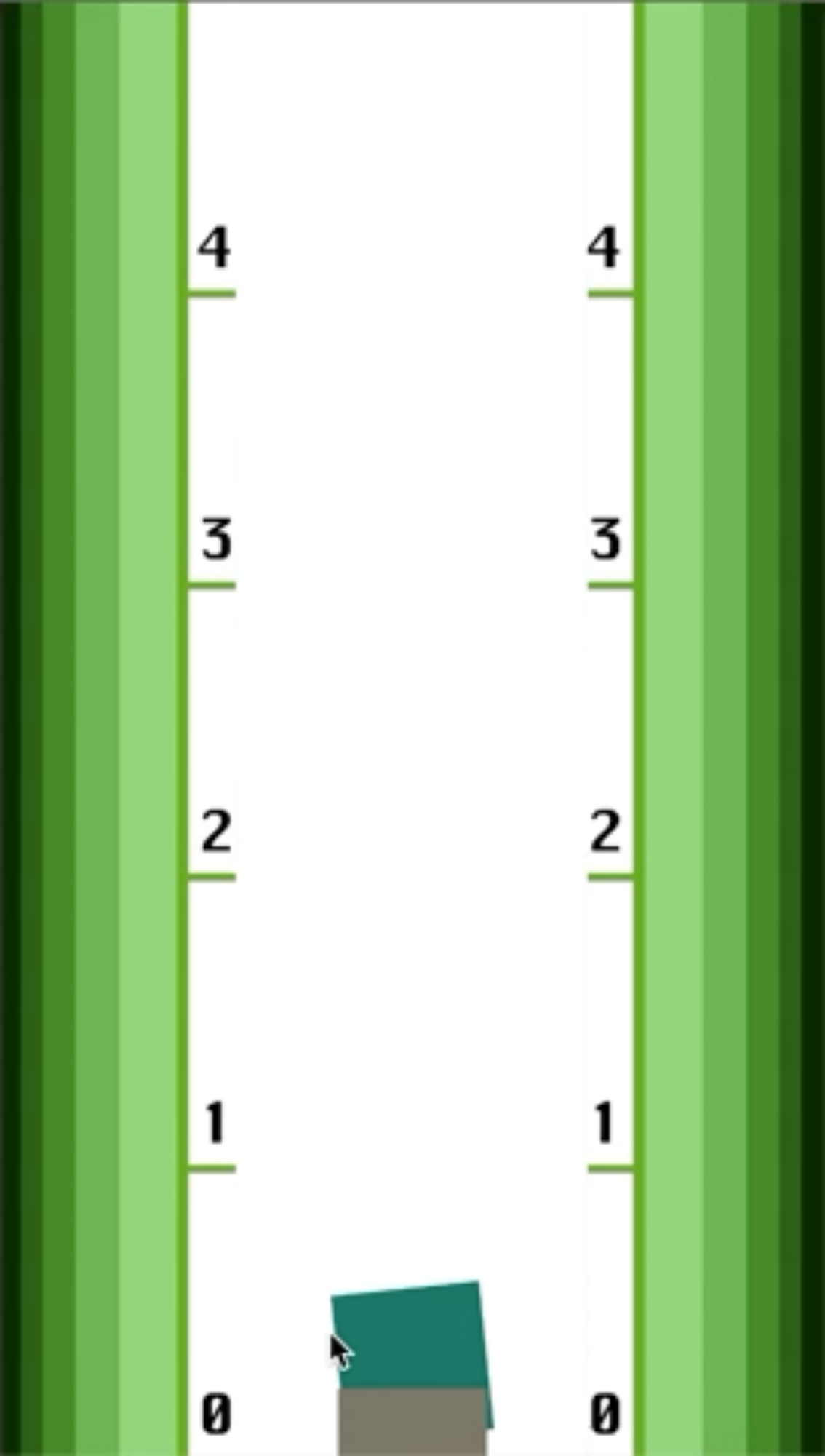
4
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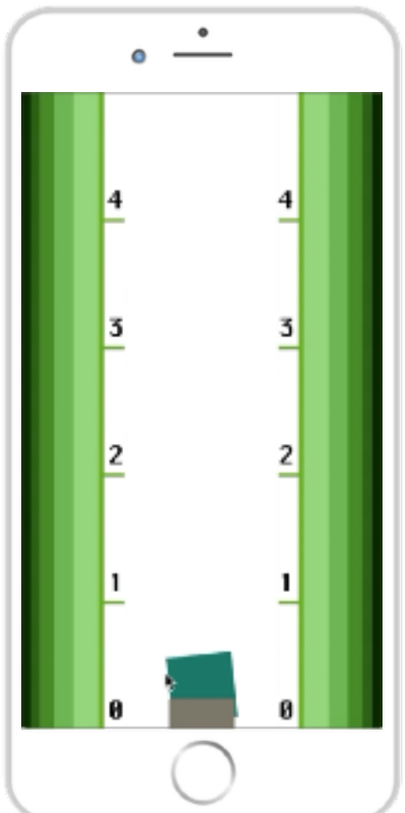
Realtime feedback



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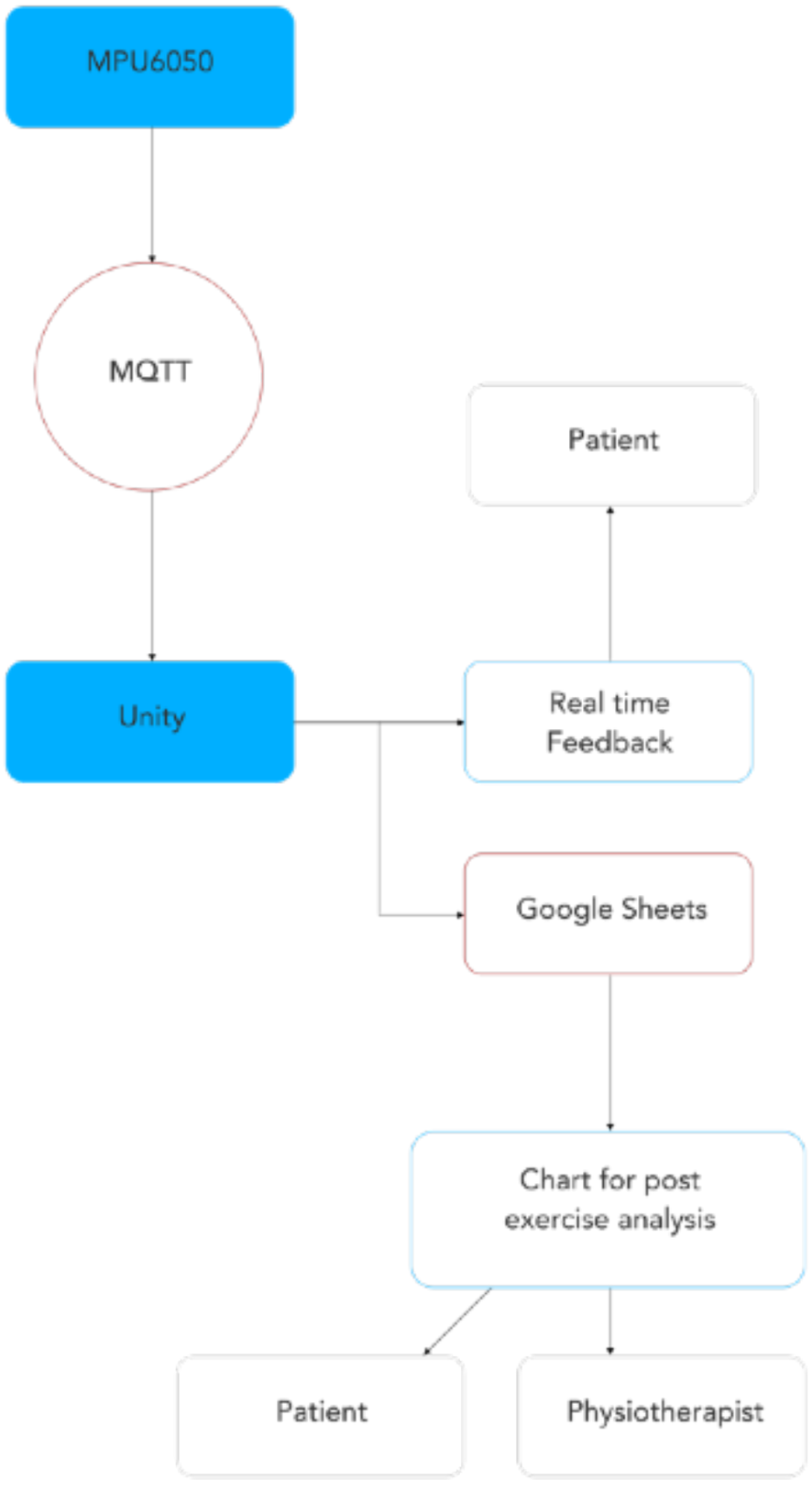
MPU6050
MQTT
Unity
Patient
Real time
Feedback
Google Sheets
Chart for post
exercise analysis
Patient
Physiotherapist