# COMP3004A – Assignment 2

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**Use cases for the device:**

- User presses the power button.

Beep sound produced, signaling light lightens up and device boots up.

- Device shows different options list

1)Programs
2)Clock
3)Recording
4)Economy
5)Color
6)Language
7)Screening
8)Children
9)Settings

- User selects the Programs(Main) function
- Device shows the pre-installed diseases

1)Allergy
2)Pain
3)Bloating
4)Kidney
5)Back
6)Joints
7)Nausea

- User selects its disease which he wants to diagnose say it selects (trauma)
- Device creates a beep sound and shows you an image
- Image describes where to apply the device, How to apply the device and for how much time.
- For say(Joints) device shows the human anatomy to see the things in the body
- After selecting the desired program in device
- Device shows the frequency in hertz 50 - 200hz
- User will place the device in contact with the patient(Person to be checked)
- If the device is in contact with the tissues it will produce

1)'tun' sound
2)No sound

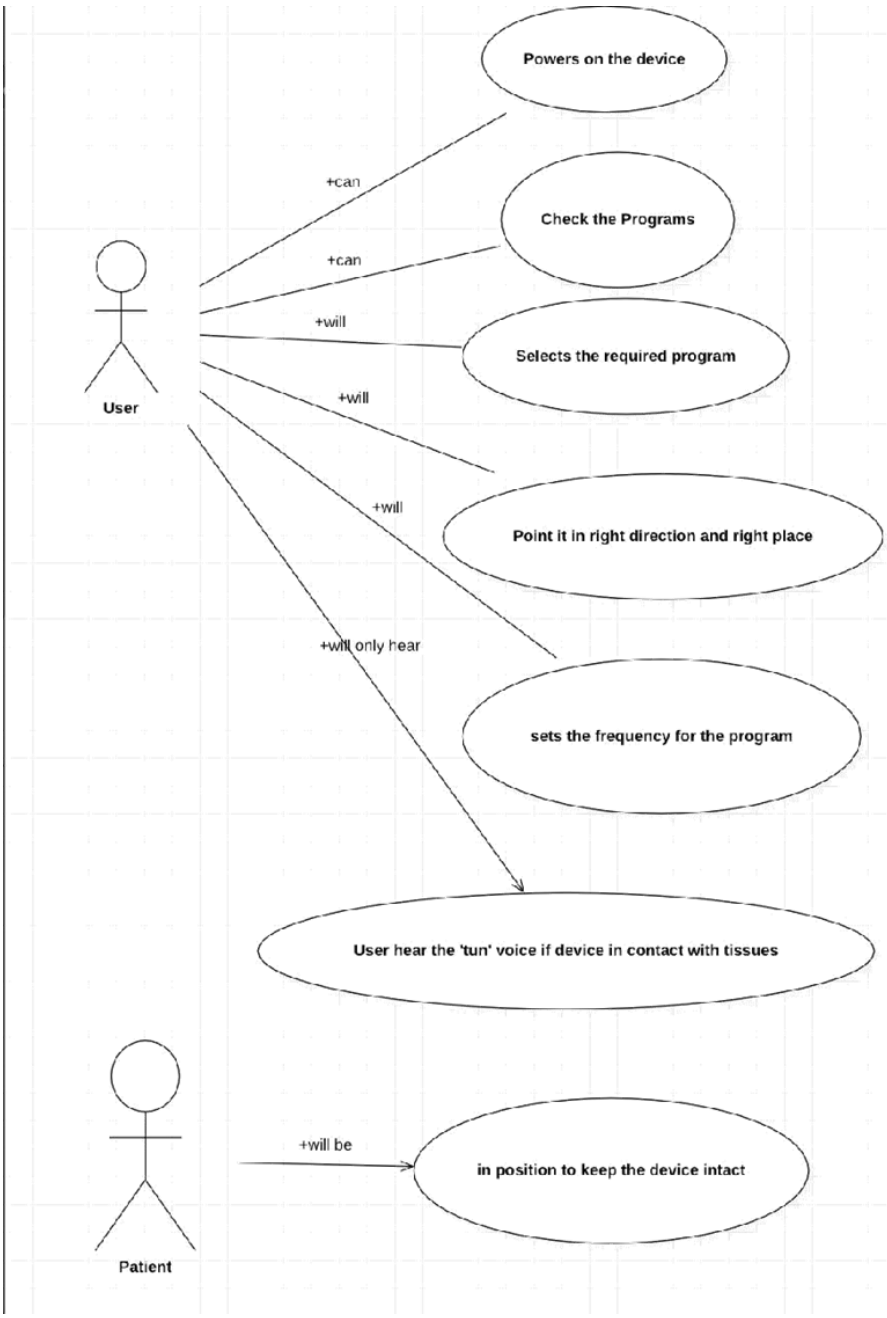
- Device has different modes

1)Medium (For Medium age persons)
2)Children (For young kids)

- It has also custom frequency set meter to work with any age individual
- Device then gives us the output in form of

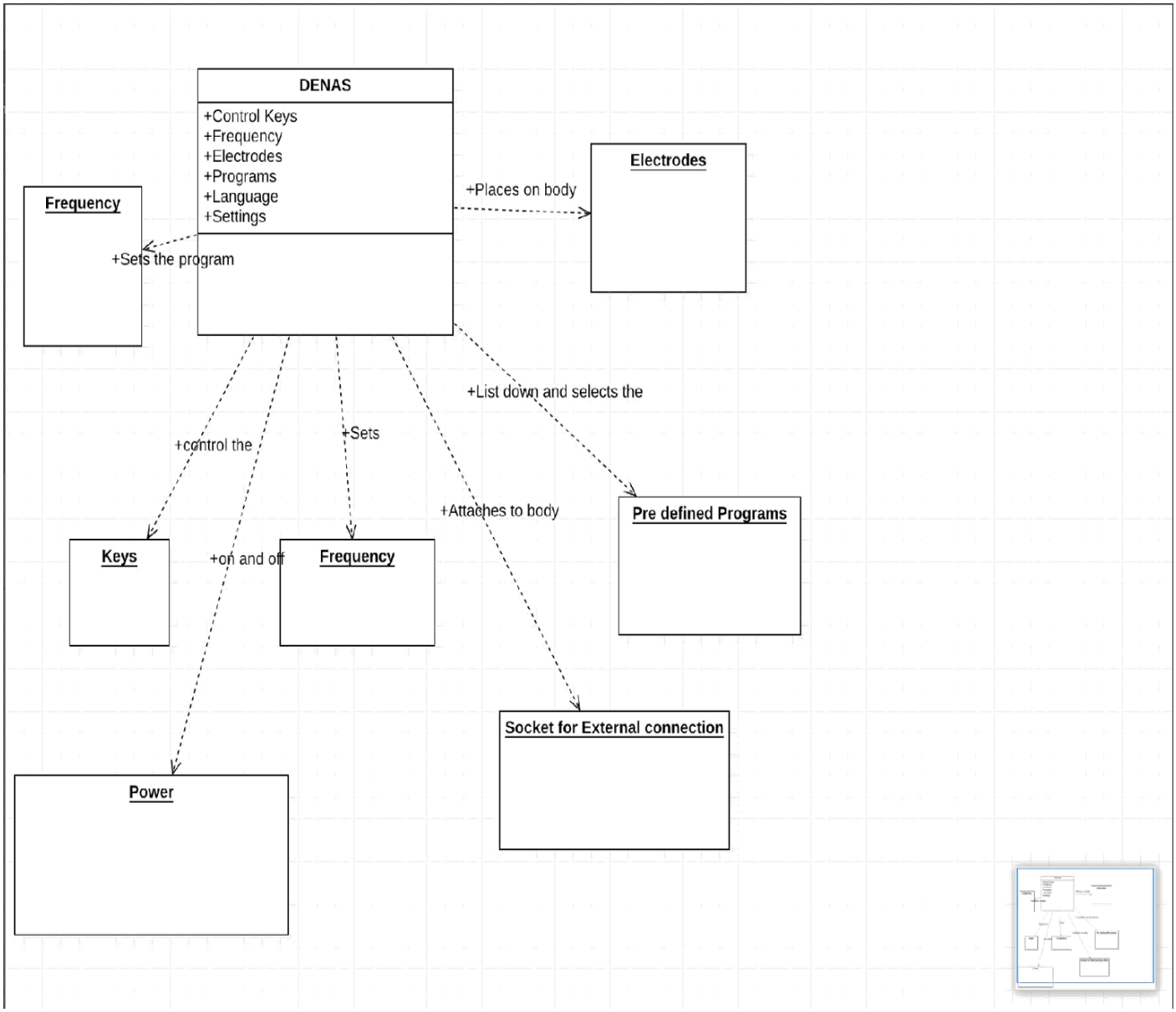
1)Positive
2)Negative

## Use Case Diagram

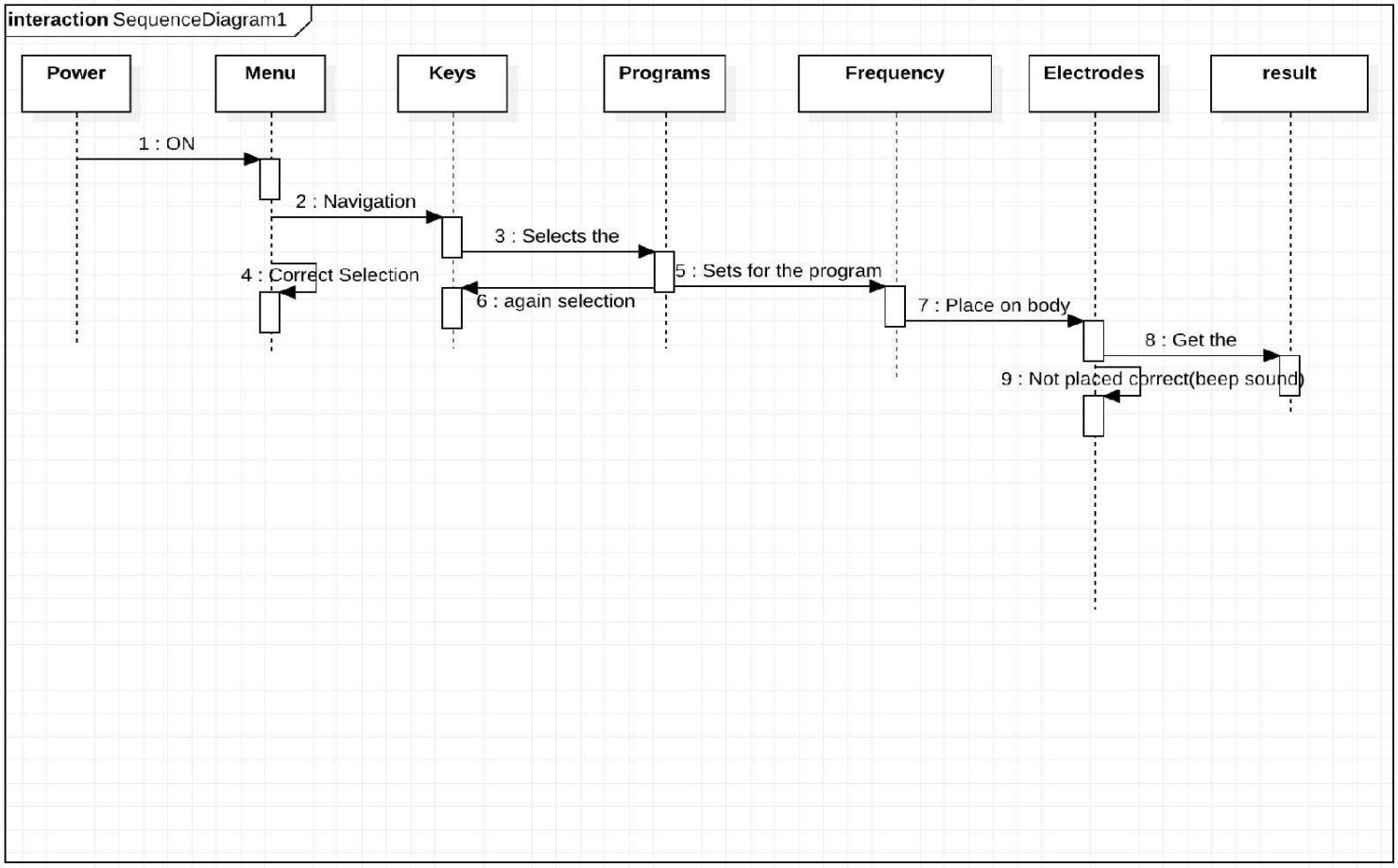


**Question#2**

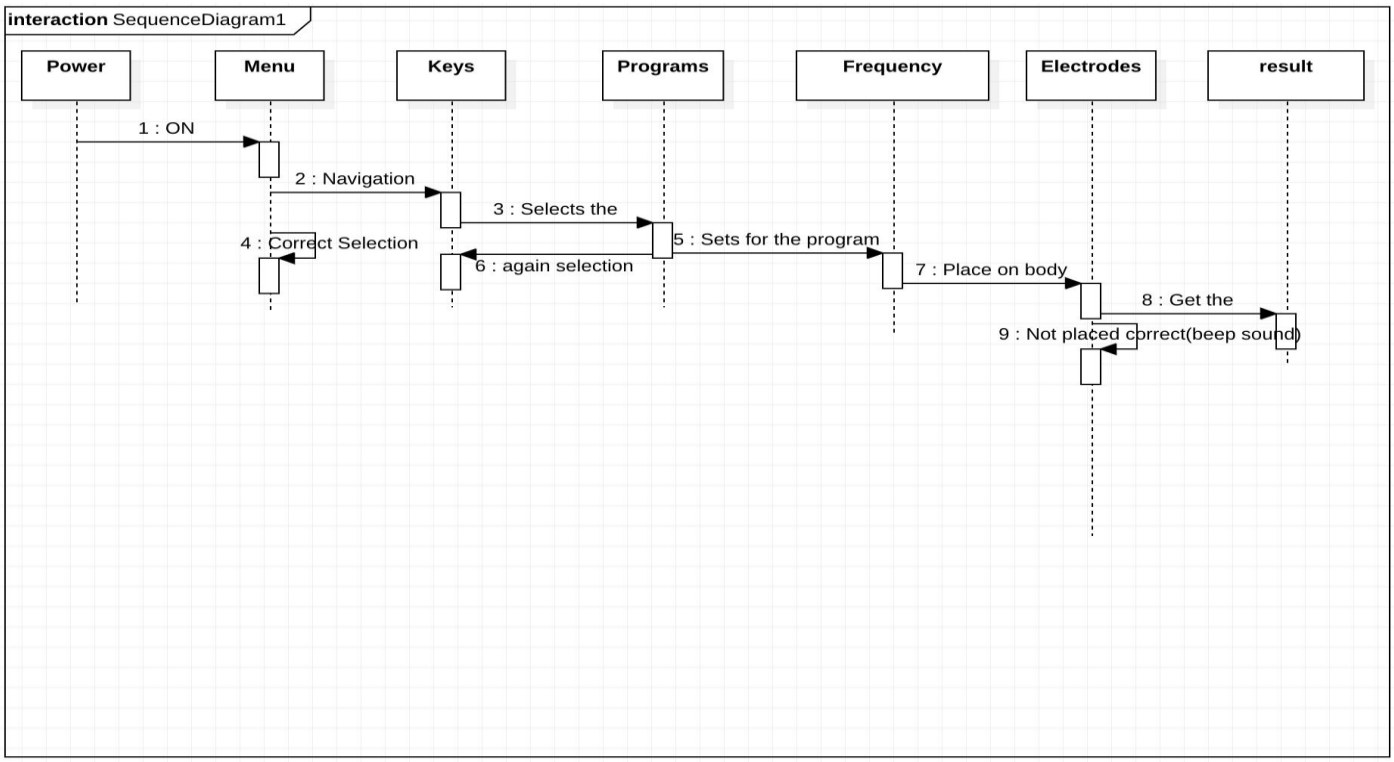
**Class Diagram:**



## Sequence Diagram:



**Question#3:**




In this sequence diagram,
Use cases we realized are

1) Power
2) Menu
3) Keys
4) Built in Programs
5) Frequency
6) Electrodes
7) result

And in this case Activity and state diagram is not possible for this specific scenario and most probably class and sequence diagram are sufficient to explain and ellaborate the working of DE-NAS.