Define

Define Evaluative Criteria (2.1)

We used the SVI scale to rank our ideas by making each member give a number for each rating. After totaling the scores, we ordered our top 4 ideas in the list by svi score ranking. We then eliminated another 2 ideas and we have 2 similar ideas remaining. After consulting Mr.Manning, we decided to go with topic 2.

1. To prevent people from falling asleep without noticing (not intended to do so) (S:19 V:16 I:16) [51]
    a. (S:5 V:5 I:5)
    b. (S:4 V:2 I:4)
    c. (S:5 V:4 I:5)
    d. (S:5 V:5 I:2)
    e. **3 Votes**

2. Waking up without having others to wake you up (S:17 V:16 I:13) [46]
    a. (S:4 V:3 I:4) (Arthur)
    b. (S:4 V:3 I:5) (Shaun)
    c. (S:4 V:5 I:3) (Daniel)
    d. (S:5 V:5 I:1) (Wayne)
    e. **3 Votes**

3. ~~Trying to open car door in tight space~~ (S:14 V:16 I:16) [46]
    a. ~~(S:3 V:4 I:4)~~
    b. ~~(S:3 V:5 I:3)~~
    c. ~~(S:5 V:3 I:4)~~

d. (S:4 V:4 I:5)

e. **2 Votes**

4. People don't know what cryptocurrency is and how to use it (S:14 V:19 I:12) [45]

    a. (S:3 V:5 I:5)

    b. (S:5 V:5 I:5)

    c. (S:3 V:5 I:1)

    d. (S:3 V:4 I:1)

5. Exercising as a hobby (S:18 V:14 I:14)

    a. (S:4 V:5 I:5)

    b. (S:4 V:1 I:4)

    c. (S:5 V:5 I:4)

    d. (S:5 V:3 I:1)

6. Designing an ergonomic controller (S:11 V:14 I:14)

    a. (S:2 V:4 I:3)

    b. (S:2 V:4 I:3)

    c. (S:3 V:2 I:3)

    d. (S:4 V:4 I:5)

7. Ergonomic road bike lever to foster more comfortable and safer downhill riding experiences (S:17 V:14 I:15)

    a. (S:4 V:3 I:4)

    b. (S:4 V:4 I:3)

    c. (S:4 V:3 I:3)

    d. (S:5 V:4 I:5)

8. The poorly designed college application web page (S:16 V:7 I:17)

a. ~~(S:3 V:4 I:3)~~

b. ~~(S:3 V:-1 I:4)~~

c. ~~(S:5 V:2 I:5)~~

d. ~~(S:5 V:2 I:4)~~

Consider Constraints (2.2)

We came up with a list of rational constraints for our product as well as a rubric to define what is suitable and what is not based on our research (here and here).

Constraints:

❖ Not wake them up by loud/noisy alarm clocks

❖ Statistics provided by the smartwatches may be inaccurate

❖ Safe/non-lethal products

  ➢ Electromagnetic waves

  ➢ Falling off the bed

  ➢ Electrical shock

❖ Applicable for targeted group

Criteria:

	Good	Soso	Bad
Pleasantness	I wake up feeling very satisfied	I wake up feeling fine	I wake up feeling not happy
Usability	I know how to use it straight away	It took me some time to figure out how to use it	I have no idea how this functions
Willingness to use	I would definitely love to continue using this	I can try to continue using this	I don't want this product to appear in my life again
Effectiveness	I wake up before time	I wake up on time	I wake up late

Affordability	Not costly at all and can be accessed by everyone	Need to spend some money, but worth it	Too expensive for just waking up

Define Problem (2.3)

We have not come up with a problem statement yet