| REQUIREMENT NUMBER | REQUIREMENT DESCRIPTION | ACHIEVABLE? |
| --- | --- | --- |
| **1** | Be able to power up |  |
| **2** | Ready to use within x amount of minutes |  |
| **3** | Be low power (via USB) |  |
| **4** | Be able to measure heart rate |  |
| **5** | Be able to display heart rate |  |
| **6** | Be able to store data |  |
| **7** | Format said data into readable format |  |
| **8** | Accept input from electrode sensors simultaneously |  |
| **9** | Adjust sensitivity based on user’s age |  |
| **10** | Be portable |  |
| **11** | Can interface with a PC |  |
| **12** | Take in user data |  |
| **13** | Export formatted data (to document) |  |
| **14** | do POST (power on self test, check is working) |  |
| **15** | check ROM |  |
| **16** | check RAM |  |
| **17** | check CPU (instructions) |  |
| **18** | be able to record enough data to fill the screen |  |
| **19** | have a screen |  |
| **20** | check buttons |  |
| **21** | menu navigation |  |
| **22** | exploit various button states (its free real estate) |  |
| **23** | store multiple past readings |  |
| **24** | display more than one ECG reading for comparison |  |
| **25** | display current heart rate while in use |  |
| **26** | networking |  |
| **27** | interface with phone via bluetooth |  |
| **28** | ping results via text |  |
| **29** | transfer data to computer as file |  |
| **30** | interface with database |  |
| **31** | load from database |  |
| **32** | store user data in database |  |
| **33** | load user data from database |  |
| **34** | screen brightness |  |
| **35** | adjust text size |  |
| **36** | accessibility for visually impaired |  |
| **37** | process electrode sensor input |  |
| **38** |  |  |