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| **General Questions** | **Answers** |
| What's the current state of the Baby Patient Simulator? What is working and what is not? | Not everything works together  Everything is redesigned for functional safety |
| What can be improved? What can be implemented? | Power management system  Wireless feedback system app |
| What do you want us to build? | **Power management system**  Should be reliable,  12V is suggested  Should supply 5V and 3.3 V  Thermal protection  Fuel gauge  There should be enough battery to operate for 5 hours.  Usability of the battery for the end user  How do you power on the system?  Is it easy and clear to power the whole system for the students and the instructors?  Make an interface with buttons?  **Wireless feedback system**  Wireless technology should be changeable  Power the feedback system  Realtime feedback of all possible student interactions.  PID?  An app could select the kinds of feedback to be used in the session.  Non-distractive feedback  Beep  If the error is high the feedback should be distruptive.  Phrase speaking feedback postively  Data storage/analysis goes via web server and not via this system |
| What is the Breathing simulation? |  |
| What is the Modular Soft Baby? |  |
| To what extent are the changes we allowed to do? |  |
| Is there a certain amount of budget we need to keep in mind? |  |
| What is currently being sensed/measured in the Baby Patient Simulator? Airflow, lung capacity, chest compression pressure/distance, movements of chin and head? |  |
| What data is currently being outputted to Bluetooth? |  |
| What kinds of feedback are expected other than data output. (Eg. Sound, vibrations) |  |
| You mentioned that you made an IOS app for the Baby Patient Simulator. What does that do? Does that already provide feedback from the system? |  |
| What previous student work are we basing our work on? |  |
| For user centric design, who can we contact with questions about the user experience? Nurses, students etc? | Sima, not a nursing student anymore. She is in S4 group. Put Johan in CC.  HAN Nijmegen visit. |
| Are there any regulations that we must be aware of due to the Baby meant to be a medical training device. |  |
| Other than size, are there any other size parameters that we should keep in mind like weight? |  |
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| **IPS Questions** | **Answers** |
| Are there any more references for the proposed battery system that is mentioned on the report? | Always open for discussion, will be supplemented with reports from the previous group |
| What are the technical constraints? | It needs to be more reliable |
| Are there any schematics design for the custom PCB that we could look at? | he will send it |
| Are there any preferred method to charge said batteries |  |
| On the handbook, there are several simulations that are mentioned (e.g thermal) is that something we should consider? | The physical simulation is not the focus at the moment |
| Is there more information available? For example, how fast should the battery charge and how long should it last? | At least 5-8 hours of battery life. Determine capacity based on this. |
| Is the battery choice “18650” fixed or should we re-evaluate this choice? | Always open for discussion |
| Is the power management IC “595-BQ24075RGTR” already available? | I have it lying around but there are some issues  Buck and boost not up to standard  Look at the datasheet for pcb traces, that helps  Overheating  Re-design with different buck-boost converter |

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| **ESE Questions** | **Answers** |
| What microcontrollers/processors are available for us? | TinyPico? |
| What programming language do we use? What IDE? | Cross platform language? Not possible. QT and C++ is fine. |
| What version control system do we use? |  |
| Where can we find the components? | We will receive the bluetooth module |
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Deadline?

Use furps

Functional requirements are sort of technical

Non-functional requirements are user centric