Logbook

Weekly Report

1st Week Report

This week we got introduced to the different projects, chose our top 3 and got assigned to the following project: Outdoor Blimp.
We also created a google drive, Whatsapp group and documents on teams for easier collaboration within the team.

2nd Week Report

Throughout this week, we focused on our project topic, with particular emphasis on the design thinking workshops. In these sessions, we engaged in creative brainstorming exercises to explore a variety of innovative ideas. Additionally, we pursued into aspects such as defining the target audience and creating personas to better understand the needs and preferences of potential users.

We also brainstormed about different real-life situations and existing ideas related to our topic. We didn't just stick to the usual ways of thinking, which helped us generate a more creative idea. Overall, we think it was a great way to start our project.

In addition, we participated in team-building classes to enhance our collaborative skills. As part of these activities, we went to a nearby park and engaged in team-oriented exercises with other groups. This proved to be an effective way of strengthening our team dynamic and getting to know our fellow peers.

3rd Week Report

This week, we started working on the report and made good progress. We began by introducing ourselves, the project and sharing a bit about our backgrounds. In our research, we explored the latest techniques and technologies related to blimps and included our findings in the state-of-the-art analysis section. Finally to help with time management and planning, we created user-friendly tables, including a Gantt chart, project backlog, and sprint plan.

4th Week Report

We concentrated on the report this week, especially the state-of-the-art portion, which needed updates and more data due to our new topic. In addition, we started thinking about the parts needed to build and run the blimp, like the microprocessor, servo motors, and other important components. We also spent some time considering the application's potential features. Furthermore, we chose the name “ANIMO,” which we feel sums up our concept. Finally, we completed several important task, including creating some structural drafts for the blimp and finishing the blackbox diagram.

5th Week Report

During the week, we made significant progress in completing the report, with about 60% of it finished. We also conducted further research on hardware components and structural design, and successfully created a cardboard scale model. Additionally, we completed the market analysis for an upcoming presentation and identified an ethics case for the ethics presentation after the Easter break.

6th Week Report

During the easter break we focused on the evaluation of the electronic components. We used the suggested websites to search for suitable components and compared them to each other using a numerical evaluation systems, which results in technical merits for each component. Based on this and other factors the best suitable components were chosen. With the chosen components the power budget was calculated.

7th Week Report

This week, we focused mostly on finishing the parts of our report that were required and essential. We also spent time practicing and perfecting how to present in order to be ready for the interim presentation.

8th Week Report

This week, we concentrated on finalising the list of components needed for the prototype, which meant choosing the right suppliers, figuring out how much each part would cost with any necessary VAT, and taking transportation costs into account. Finally, we created a 3D model video to present our concept.

9th Week Report

This week we primarily worked on refining our report based on the feedback we got from the assigned teacher who read our work.

10th Week Report

This week we continued working on refining our report based on the feedback we got from the assigned teacher who read our work and started thinking about the prototype

11th Week Report

We are currently working on the video, making the packaging and how to make it sustainable, and solidworks.

12th Week Report

We worked on the packaging solution, and test the components for our prototype

13th Week Report

We started the Overleaf and began to assembly the components

14th Week Report

We continued improving and finishing the Overleaf, started programming system for the prototype, started developing the app

15th Week Report

Currenly working on the last part of the report, the end of the overleaf, the poster and manual, and programming system for the prototype

Meetings

1st Meeting (2023-02-21)

Agenda:

- Presentation
- Modus operandi
- Project proposals
- Electronic logbook (Wiki)

Minute:

We went through every project and discussed which problems and solutions we can find for each one, to be able to find our top 3.

2nd Meeting (2023-03-02)

Agenda:

- Present our idea
- Discuss the topic

Minute:

During this meeting, we explored our project topic and brainstormed potential ideas. We deliberated on the key considerations and research that we should undertake to inform our project. Additionally, our supervisors briefed us on the project wiki and inquired about our technical proficiencies.

3rd Meeting (2023-03-09)

Agenda:

- Show the state of art
- Discuss the topic and explain our topic a bit more
- Project backlog, global sprint plan and Gantt chart
- Feedback

Minute:

We talked about our topic a bit more and explained some addition ideas we had, the supervisors gave us some advice and tips. Next we went over the wiki to show the state of art and show the project backlog, gantt chart and spring planning. Everything seems to be good, only we have to focus on something more simple.

4th Meeting (2023-03-16)

Agenda:

- Discuss the new topic
- Black box
- Feedback

Minute:

During our discussion, we talked about a new idea we wished to implement. We also dug deeper into the wiki and received feedback on areas that needed improvement and areas that were well done. Additionally, we presented the blackbox, structural drafts, and some diagrams we had created.

5th Meeting (2023-03-23)

Agenda:

- List of Components and Materials (what & quantity)
- Name
- Greybox

- Feedback

Minute:

During this meeting, we presented a list of components and materials and they addressed that we have to specify their weight, dimensions, and providers. Furthermore, we inquired about the possibility of ISEP providing some of these materials and they suggested they might have a kit for us. They also gave us a list of providers we could source the components from. Additionally, we shared a grey box diagram that now requires some adjustments. Finally, we proposed the name ANIMO, but discovered it was already in use.

6th Meeting (2023-03-30)

Agenda:

- Cardboard scale model
- System schematics & structural drawings (Chapter 7)
- Help for the hardware components (A lot of variety)
- Load capacity graph (Chapter 7)
- Feedback

Minute:

In the meeting, we presented a scaled cardboard model that accurately represents our idea. We also discussed the milestone that was supposed to be completed but was not done correctly. In addition, we presented a load capacity graph we had developed and received helpful feedback on it.

7th Meeting (2023-04-13)

Agenda:

- Evaluation and comparison of the electronic components (Chapter 7)
- Choice of electronic components (Chapter 7)
- Power Budget (Chapter 7)
- Order of Chapter 7
- Feedback

Minute:

We discussed our decision on the electronic components in the meeting and went over their technical details. We also discussed the project's power budget that we had established. Finally, we addressed the steps required to get ready for the interim presentation after receiving feedback on the paper.

8th Meeting (2023-04-20)

Agenda:

- None

Minute:

We had no meeting this week due to the interim presentations.

9th Meeting (2023-04-27)

Agenda:

- Final list of components and material
- 3D Model video
- Feedback

Minute:

During this meeting we went over the agenda points we wanted to discuss. We have to now specify the list of components and material more, including the ones they will already supply.

10th Meeting (2023-05-04)

Agenda:

- Questions

Minute:

In our meeting, we didn't have much to discuss. We only had a few questions, and they were answered.

11th Meeting (2023-05-18)

Agenda:

- Around what time do we get the components for the prototype?
- Can we use a workplace for 3D printing and other tools that can help with making the prototype?

Minute

During this meeting, we didn't have much to discuss. We only had a few questions again, and they were answered.

12th Meeting (2023-05-25)

Agenda:

- Packaging solution
- Electronic components

Minute:

In our meeting, we talked about the packaging and shared what we had created. Then, we went through the paper and received feedback on what needed to be changed and what was good. Lastly, we discussed the components we received and identified any incorrect ones.

13th Meeting (2023-06-01)

Agenda:

- Paper
- Crimp connectors

Minute:

In our meeting, we went through the paper and received feedback on what needed to be changed and what was good. Lastly, we discussed the components we received and identified any incorrect ones.

14th Meeting (2023-06-07)

Agenda:

- What is the status of the helium supply can we be sure that we can use that or do we need to look at an other source as well?
- Monitor is switching on and off?
- And can you give us help with the stepdown?
- Programming soft and hardware, making the videos and poster.
- Question about overleaf

During this meeting, we talked about the Overleaf and shared what we had modified. Then, we went through some questions that has been answered. Lastly, we discussed about needed to be done.

15th Meeting (2023-06-15)

Agenda:

- Video presentation
- Helium
- Question about Overleaf

Minute:

Today, we covered the items on our agenda, with a primary focus on presenting our work on Overleaf since it was the final deadline today.

Activities

Start	End	Task	Description	Who