

Weekly Report

1st Week Report

At the project meeting (PROJE-EPS), the school schedule was presented, the project groups were formed. We had three online teambuilding sessions where we got to know each other and we defined our team identity. Our project group also made a top 3 of proposals subjects for the project: 1. Smartification of Everyday Objects; 2. Context-aware Display and 3. Ergonomic and Reconfigurable Furniture.

Our final subject for the EPS project is Smartification of Everyday Objects.

2nd Week Report

We attended a 12-hour workshop on Design Thinking. The classes of each module (Marketing, Communication, Energy & Sustainable Development, Project Management, Portuguese, and Tech Course) started. Furthermore, the first official meeting as a team with the supervisors took place, where we discussed our topic and the next steps to take.

3rd Week Report

The team started the 'State of the Art' for the report, created the 'Gantt Chart', and started filling the tables for: Global Sprint Plan; Project Backlog; Sprint Plan; Project Progress Register. We also made a presentation for the Communication module, and started the Ethics and Deontology classes.

4th Week Report

This week was focused on making a list of proposals for the smart object to produce. We also refined the 'state of the art', and created the initial 'black box' diagrams. For the project management, we started using Microsoft Planner to plan the sprints and to divide tasks.

5th Week Report

This week we started doing design sketches and electrical schematics. We focused on the Marketing chapter for the report, and also did a presentation on it. For 'Energy and Sustainable Development', we researched about how to include the eco-efficiency concept in our product.

6th Week Report

This week was focused on doing more research and improving the sketches for design and electronic schematics. We also developed the flyer and the logo for our product. We did some research about 'Vermiponics', and had a meeting about it with Professor Abel Duarte.

7th Week Report

The team focused on developing the report for the interim deliverable.

8th Week Report

Interim presentation + improvements of the report based on feedback from supervisors.

9th Week Report

The team focused on researching materials and deciding the final design for the prototype.

10th Week Report

We started doing the power budget, adjusted the design, and discussed the dimensions and weight for the prototype and for the actual product.

11th Week Report

We received feedback for the research paper introduction, leaflet, and flyer; we organized a presentation on a famous 2020 ethical scandal for ETHDO class; we developed the interim report based on supervisors' feedback.

12th Week Report

The team received the electrical/technical components, finalized the power budget and 3D video, and delivered the final list of materials. We also improved the leaflet, the marketing chapter, and the research paper.

13th Week Report

Tested technical components; started writing the user manual and designing the poster; organized final presentations for the marketing and ethics chapters.

14th Week Report

Developed the final version of the leaflet; designed the poster; finalised the ethics chapter; collected the materials for the prototype; improved the paper; started organizing the final presentation.

15th Week Report

Built the supporting structure for the prototype; continued research on materials for the actual product; finished the user manual; calculations for bending strength of bamboo; defined the packaging; designed the App/website; had a Portuguese test and presentation.

16th Week Report

Implemented the circuit on the prototype; finished the code; finalised the project management chapter; finalised all the final deliverables.

17th Week Report

Final presentation.

Meetings

1st Meeting (2021-03-04)

Agenda:

1. Presentation
2. Modus operandi
3. Project proposals
4. Electronic logbook (Wiki)

Minute:

Twenty topics were presented and explained and an introduction of the wiki was given.

2nd Meeting (2021-03-11)

Agenda:

1. Get more details about our topic
2. Discussing what the next steps in the process are

Minute:

Fien took charge of this meeting. The initial brainstorm was presented to the coordinators. They gave

us an overview of what to do next and which aspects we should take into account when choosing our object. We will create a table with product analysis regarding: materials, sustainability, energy, ethics, etc..

3rd Meeting (2021-03-18)

Agenda:

1. Discuss / go over our 'state of art'
2. Discuss our plan for next week
3. Questions: What are the three topics in the state of art part of the wiki? What is 'the blackbox'?
4. Help us reference the reports that we should make

Minute:

Chris took charge of the meeting. We went over the state of the art and the backlog; Professors guided us into the next steps; Explained the BlackBox; Showed us how to reference in Wiki; We set a deadline for proposal of next week.

4th Meeting (2021-03-25)

Agenda:

1. Go over the state of the art
2. Present our product proposals and research
3. Present the "black box"
4. Get feedback for future steps and improvements

Minute:

Ana took charge of the meeting. We went over the 'State of the Art' with the coordinators. Each member of the group presented their proposal, and the supervisors gave us some feedback. We also presented the initial 'black box'.

5th Meeting (2021-03-31)

Agenda:

1. Present our final product choice + show them our research
2. Show the supervisors updated state of the art
3. Discuss what needs to be done due to next week

Minute:

Victoria took charge of the meeting. The updated state of the art looks as it should. We also presented the final choice for the project, got feedback on it, and now we have to come up with an idea to innovate the proposal, and we have to do some sketches and electrical schematics for next week.

6th Meeting (2021-04-08)**Agenda:**

1. Present to supervisors our sketches of proposals
2. Present the logo
3. Show research about other symbiotic relations
4. Discuss the electronic schematics and blackbox
5. Discuss steps for next week and ask what exactly the interim report should contain
6. Discuss what will happen with EPS classes when ISEP opens

Minute:

Jakub took charge of the meeting. We showed a quick presentation which included the following: our logo, two modular sketches of our product (for outdoor and indoor daily activity), research about other symbiotic relations, the blackbox, the electronic schematics. We had another meeting with a teacher who gave us more information about Vermiponic system.

7th Meeting (2021-04-15)**Agenda:**

1. Present to supervisors our new proposal
2. Discuss how to smartify the system (research on worms tracking device)
3. Research on a system which collects water from the rain
4. Present our progress in the interim report

Minute:

Fien took charge of the meeting. After the meeting we decided to go with the keyhole garden principle and to redesign our concept in order to integrate this principle.

8th Meeting (2021-04-22)

Agenda:

1. Interim Presentation

Minute:

The whole team presented the work we've done so far for the supervisors and the rest of the students.

9th Meeting (2021-04-29)**Agenda:**

1. Present and discuss list of materials
2. Present cardboard scale model
3. Discuss dimensions of the components

Minute:

Kris took charge of the meeting. Discussed different options for connectors (made choice for ropes and 3D printed model). Discussed technical components with Paulo. After meeting worked out some details of the design with the team members.

10th Meeting (2021-05-06)**Agenda:**

1. Present adjusted design
2. Present and discuss adjusted list of materials / ask about the options for the flowerpot
3. Discuss dimensions of the components

Minute:

Vicky took charge of the meeting. We discussed the weight of one flowerpot. We discussed how to handle the power budget and received feedback on the refined design (dimensions need to be smaller & more holes for the worms need to be added).

11th Meeting (2021-05-13)**Agenda:**

1. Present video of 3D model

2. Discuss power budget
3. Ask about the light sensors in the worm tubes

Minute:

We received feedback on the 3D model video. Professor Paulo gave us advice on the power budget and a better option than the light sensors for tracking the worms. We will start implementing the prototype next week, reusing materials (old flowerpot, lupine bucket, and PET bottle), and Professor Abel Duarte will provide the worms and the soil.

12th Meeting (2021-05-20)**Agenda:**

1. Present adjusted video of 3D model
2. Present power budget
3. Discuss the calculations for the ropes(pattern?)and the comprehensive strenght of bamboo
4. Discuss final list of materials for the prototype

Minute:

Our team presented the things listed in the agenda. The supervisors showed us some options of wood instead of bamboo to use for the prototype. Besides, the supervisors offered the option to consider using wheels when building the prototype. This way it's easier to move the system around.

13th Meeting (2021-05-27)**Agenda:**

1. Show the flowerpot and ask about the assembly of the components (double bottom or use plate for the prototype?)
2. Present app mock-up
3. Show the new calculations of the flowerpot
4. Ask about the assembly process of the ideal concept (flowerpot can be completely assembled when delivered to the user or the user still has to assemble some parts itself)
5. Discuss our final list of materials for the idealized concept
6. Ask if the final list of materials for the prototype is fine

Minute:

We got feedback on the app mockup; we finalized the list of materials and received money to buy them.

14th Meeting (2021-06-02)

Agenda:

1. Discuss what to do about the materials
2. User manual

Minute:

Professor Pedro took Anita to the store to get the wood so we could start building our prototype.

15th Meeting (2021-06-09)

Agenda:

1. Show packaging solution
2. Show material alternatives for the connectors
3. Show bending strength calculations

Minute:

Discussion and proposed adjustments for the alternative materials for the connectors. Professor Cristina suggested to also look at bio-plastics. Professor Jorge showed us how to do the bending strength calculation for the bamboo bars.

16th Meeting (2021-06-17)

Agenda:

1. Show material alternatives for the connectors
2. Discuss feedback on strength calculations and discuss failed simulation
3. Ask about final presentation and all the deliverables

Minute:

This was the final meeting, so we discussed a bit on how to finish our prototype and where to buy plants for in the flowerpot.

Activities

Start	End	Task	Description	Who
		Team Building Report	Creative report about the first week's 'Team Building' activities	Individual
		Team Identity	Defining the values, goals, mission, and vision of the team, and finding out each member's qualities and downsides	Everyone
		Top 3 Topics	Choose and order the team's top 3 subjects from the list of 20 provided by the supervisors	Everyone
		Attitude Test	Test to measure attitudes regarding decision making and working as a team	Individual and as a team
		Design Thinking Maps and Presentations	Activities done for the Design Thinking Workshop	Everyone
		Presentation about Electrical Cars	Task for 'Energy and Sustainable Development' class	Everyone
		Presentation for Communication	Presentation about the state of the art	Everyone
		Sustainable hotel	Task for 'Energy and Sustainable Development'	Everyone
		MACOM joint presentation	Presentation about Market Analysis, Flyer and Logo	Everyone
		Eco-efficiency	Task for 'Energy and Sustainable Development'	Everyone

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Last update: **2021/06/18 19:27**

