Logbook

Weekly Report

1st Week Report

Starting to discover the subjects of the proposal list and meet each other team members. First selection of the 3 main project proposals. Final decision:

- *Smartification of Everyday Objects | Smart Cities*
- *Solar Panel with Temperature Control | Smart Cities*
- *Our City Experiences | Smart Cities*
- *We also made some activities to know each other (team building)*

2nd Week Report

- *27/02/23: Design thinking workshop: Define the experience + Interviews. We decided to work on the user experience into supermarkets.*
- *How to know what to buy without wasting time and in the most intuitive way?*
- *27/02/23: Sustainability class*
- *28/02/23: We had a brainstorm session, about the project (MindMap, Brainstorming)*
- *01/03/23: Decision of the brand name: **FESMARKET***
- *01/03/23: We share our ideas with the class, they give us some advices*
- *02/03/23: Branding and logo*
- *03/03/23: State of the art*

3rd Week Report

- *06/03/23: Backlog and Gantt chart.*
- *08/03/23: Brainstorming and mindmap.*

4th Week Report

- *13/03/2023: Meeting about the requirements of the project and discuss the progress of creating the black box diagram and structural drafts.*
- *15/03/2023: Changing the references and images.*
- *15/03/2023: Scope and SWOT analyse.*
- *16/03/2023: Structural drawings and system diagrams.*

5th Week Report

- *20/03/2023: Drawings of the final design .*
- *21/03/2023: List of materials and components.*
- *21/03/2023: New logo.*

- *22/03/2023: Positioning system.*
- *22/03/2023: App development.*

6th Week Report

- *27/03/2023: Final design structural drawings .*
- *27/03/2023: First render*
- *28/03/2023: Cardboard model*
- *28/03/2023: PESTEL, Market analysis, elevator pitch*
- *28/03/2023: App development.*
- *28/03/2023: Final table of materials*

8th Week Report

- *10/04/2023: Project managament (sprint outcomes, risk matrix...) .*
- *12/04/2023: Final render*
- *11/04/2023: Interface design (APP)*
- *12/04/2023: Battery consumption*
- *14/04/2023: Marketing part finished*
- *14/04/2023: Sustainability part finished*
- *15/04/2023: List of components and materials*
- *15/04/2023: Ethics*
- *16/04/2023: Interim report and presentation*

9th Week Report

- *17/04/2023: Insulation area developement*
- *18/04/2023: Charging station investigation*

10th Week Report

- *21/04/2023: 3D model video*
- *22/04/2023: Electronics and components*
- *23/04/2023: APP interface*

11th Week Report

- *24/04/2023: 3D model video*
- *25/04/2023: Prototype connections*
- *26/04/2023: MAgnetic charge*
- *26/04/2023: APP interface*
- *27/04/2023: Wiki update*

12th Week Report

- *01/05/2023: Detailed drawings*

- *01/05/2023: Prototype connections*
- *02/05/2023: Packaging*
- *03/05/2023: Magnetic charge design*

14th Week Report

- *15/05/2023: Cameras (prototype)*
- *16/05/2023: APP*
- *18/05/2023: Report changes*
- *18/05/2023: Paper*

Meetings

1st Meeting (2023-03-03)

Agenda:

1. Smartification of an everyday product

Minute:

We presented the main idea of the proposal: a smart shopping cart to improve the user experience in the supermarket. We discuss about the state of art and the need of finding what already exist in the market and in the academic field. This is important to define the requirements and add value to our product.

2nd Meeting (2023-03-09)

Agenda:

1. *State of art*
2. *Backlog and the Gantt chart*
3. *Brainstorming report*

Minute:

We started with a discussion about small mistakes at the beginning of our report. Then we showed experts the state of the art that we made. After receiving feedback we started talking about how to improve our backlog and Gantt chart and how to make it more visible. In the end, we discussed our ideas that will make our smart shopping cart distinctive on the market.

3rd Meeting (2023-03-16)

Agenda:

1. *System Diagrams & Structural Drafts*
2. *Requirements*
3. *Division of market analysis*

Minute:

We present the activities carried out. The tracking system in the supermarket has difficulties. The design can be innovative and totally different. Correct some details of the international system of units. And start defining the components of the product.

4th Meeting (2023-03-23)

Agenda:

1. *List of materials and components*
2. *New designs proposal*
3. *Scale material? Battery?*

Minute:

Changes on the design should be done (improve the shape): they can fit in with the other carts, weight distribution. Need to change unities in IS, justify the quality in the tables.

5th Meeting (2023-03-30)

Agenda:

1. *Final design*
2. *Final list of components*
3. *Add file to deliverable?*

Minute:

We got some feedback about the design and our Wiki, some important things are not included, such as the power budget table. The shopping cart should have a simple and easy to use charging station.

6th Meeting (2023-04-13)

Agenda:

1. *Feedback on report*

Minute:

We got feedback on the report, we need to finalize the report and recheck some chapters. Also got an explanation about the interim presentation and what they expect.

7th Meeting (2023-04-19)

Agenda:

1. *Interim presentation*

8th Meeting (2023-04-27)

Agenda:

1. *Report changes*
2. *Packaging?*
3. *3D model video*

9th Meeting (2023-05-04)

Agenda:

1. *Report changes*
2. *Packaging*
3. *Diagrams (connections)*

10th Meeting (2023-05-18)

Agenda:

1. *Report changes*
2. *Interface*
3. *Abstract (PAPER)*

11th Meeting (2023-05-25)

Agenda:

1. *Camera connected to the raspberry pi. Able to scan barcode and open specific link.*
2. *Need connectors to connect HX711's to loadcell and raspberry pi.*
3. *Updates on the paper.*

12th Meeting (2023-06-01)

Agenda:

1. *Suggestions on how to fixate the loadcell to get accurate measurements. Maybe a drill in wood to put the screws in?.*
2. *Tabular in paper too wide, is there an easy solution?.*
3. *Prototype tests not fully done yet. What to put in the paper?.*

13th Meeting (2023-06-07)

Agenda:

1. *API is online with google cloud*

14th Meeting (2023-06-07)

Agenda:

1. *Finished tablet application (see video in deliverables)*
2. *Questions about the final presentation*

Activities

Start	End	Task	Description	Who
23/02/23	26/02/23	Choosing the project from the proposal list	We chose “Smartification of an everyday object” after discussing some topics	M,DA,H,DO,J,T
27/02/23	03/03/23	First ideas from within the selected theme. Smart shopping cart, bus stop and other ideas.	We opted for the smart shopping cart, as it seemed more interesting, with more potential and more possibilities for development.	M,DA,H,DO,J,T
27/02/23	03/03/23	State of the art	We analyse the market, the technologies surrounding our product: dynamo system, scanners, smart carts…	M,DA,H,DO,J,T

Start	End	Task	Description	Who
01/03/23	02/03/23	Logo and brand	Design of the logo, and branding, color decisions.	M
06/03/23	10/03/23	Definition of the backlog and elaboration of the Gantt chart	We organise all the tasks to be carried out from the beginning to the end of the course.	M,DA,H,DO,J,T
06/03/23	10/03/23	Brainstorming and mindmap	All the aspects to be dealt with in relation to the cart are defined, and we begin to contribute ideas that seem interesting to all of us.	M,DA,H,DO,J,T
15/03/23	16/03/23	Leaflet	Design of the leaflet	DA,H,DO,J,T
10/03/23	17/03/23	System diagrams	Definition and design of the system diagram in relation with our product	H, J
10/03/23	17/03/23	Structural drafts	First sketches and draws of the idea	M
20/03/23	22/03/23	New drawings	First sketches and draws of the idea	M
21/03/23	22/03/23	Material and components	3 options for each component	M,DA,H,DO,J,T
20/03/23	22/03/23	Solar panels and electricity	Study of the electrical consumption and solar panels	T
22/03/23	24/03/23	Mesoenvironment analysis	Supermarkets analysis and market	M
20/03/23	24/03/23	Final design	Draws and first render of the final design	M
20/03/23	21/03/23	Targeting and positioning	User persona, benchmarking and positioning map	M
22/03/23	26/03/23	Back end	Developement of the code for the app	J
24/03/23	26/03/23	System diagram and user story	Software diagrams	J
27/03/23	31/03/23	Ethics	Investigation on ethics	DO
27/03/23	31/03/23	Market analysis	Market size, tendencies, user	M
25/03/23	31/03/23	Sustainability	Sustanability redaction	DO, T
25/03/23	31/03/23	Electronic components	System diagram	DA
10/04/23	14/04/23	Materials and components	Providers, prices, final components	DA, M
10/04/23	16/04/23	User interaction	Drawings and renders of user interaction with the product	M
10/04/23	16/04/23	3D model final	Redesign	M
12/04/23	16/04/23	Project management	Risk matrix, people, stakeholders management, sprint outcomes...	H, M, DA
12/04/23	16/04/23	Presentation and interim report	Create presentation, changes in the wiki	H, M, DA, T, J
17/04/23	23/04/23	Charging station investigation	Think about the way the smart shopping cart will be charged	DA, H
17/04/23	26/04/23	3D model video	Creation of 3D model video	M
26/04/23	30/04/23	Detailed drawings	Drawings and renders of the components	M
01/05/23	06/05/23	Packaging	Explain the transportation, packaging..	T
03/05/23	06/05/23	Poster	Poster design	M
15/05/23	21/05/23	API	Back end application	J
15/05/23	21/05/23	Prototype tests	Cameras testing, load tests	DA, H

Start	End	Task	Description	Who
15/05/23	21/05/23	Sustainability modifications	Add information and be more precise in the explanation	T, DO
15/05/23	21/05/23	Paper	Advance of overleaf paper	M

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