



Internet of Things Project – Team MaPaY

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Summary

Problem description

What is already existing?

Our solution

The organization

Problem description

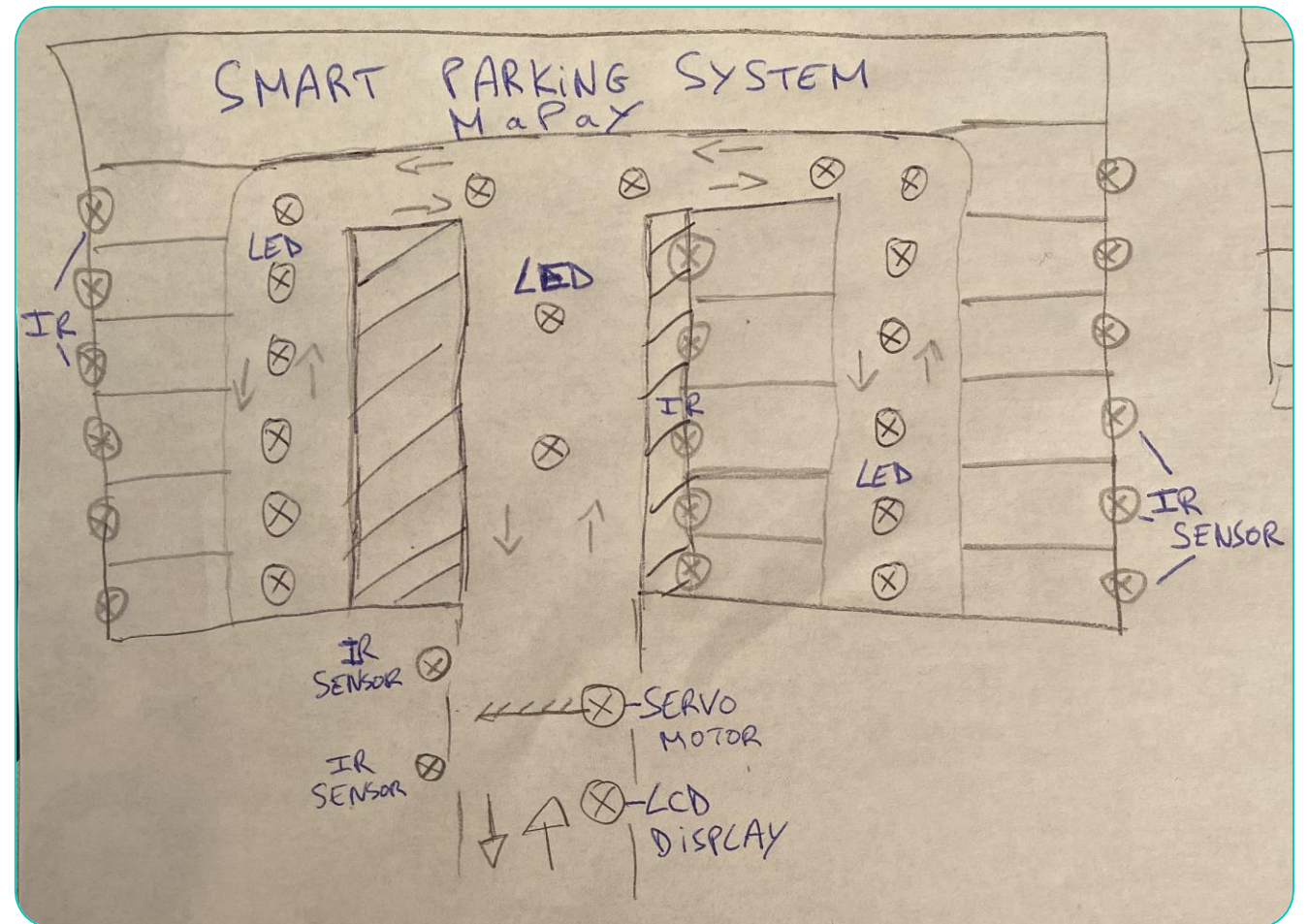


Parking full??

What is already existing?

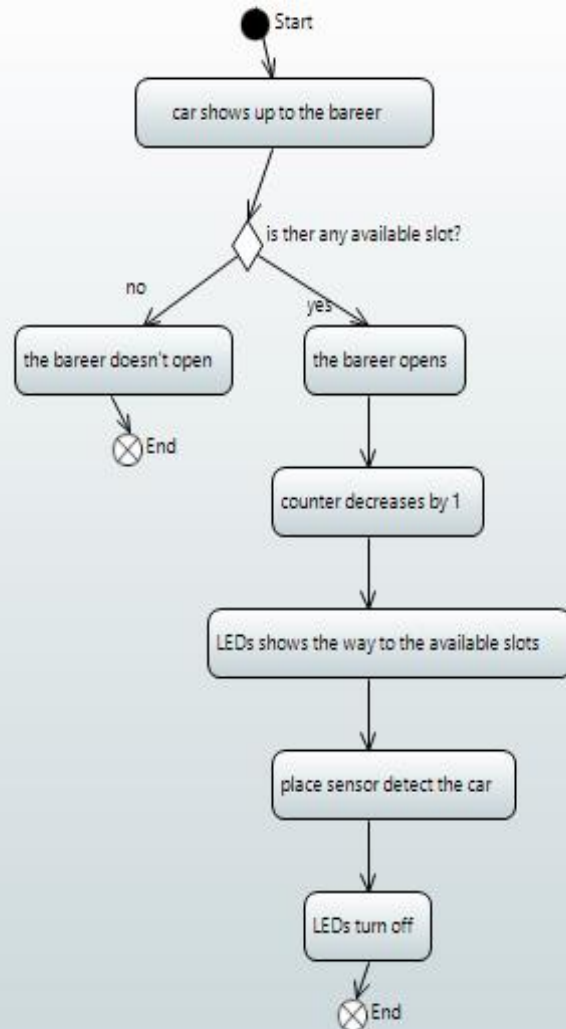
- TTS Parking: shows number of places
- Accor Solutions: light above the places
- ...
- Many similar solutions!

Our solution

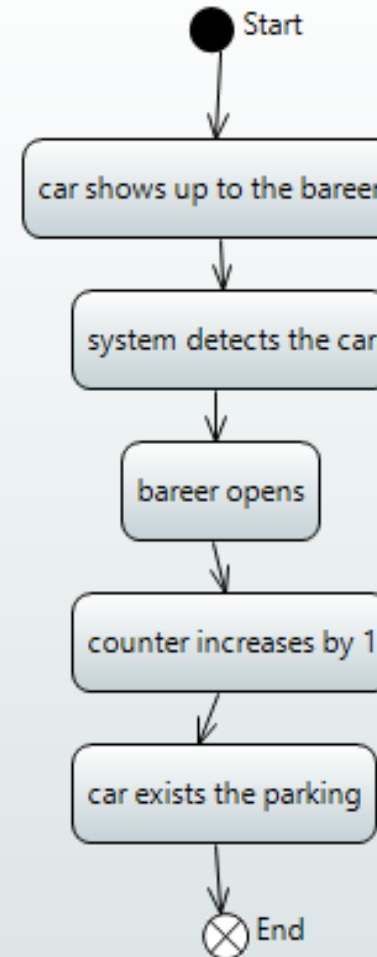


Activity diagrams

Entering the parking

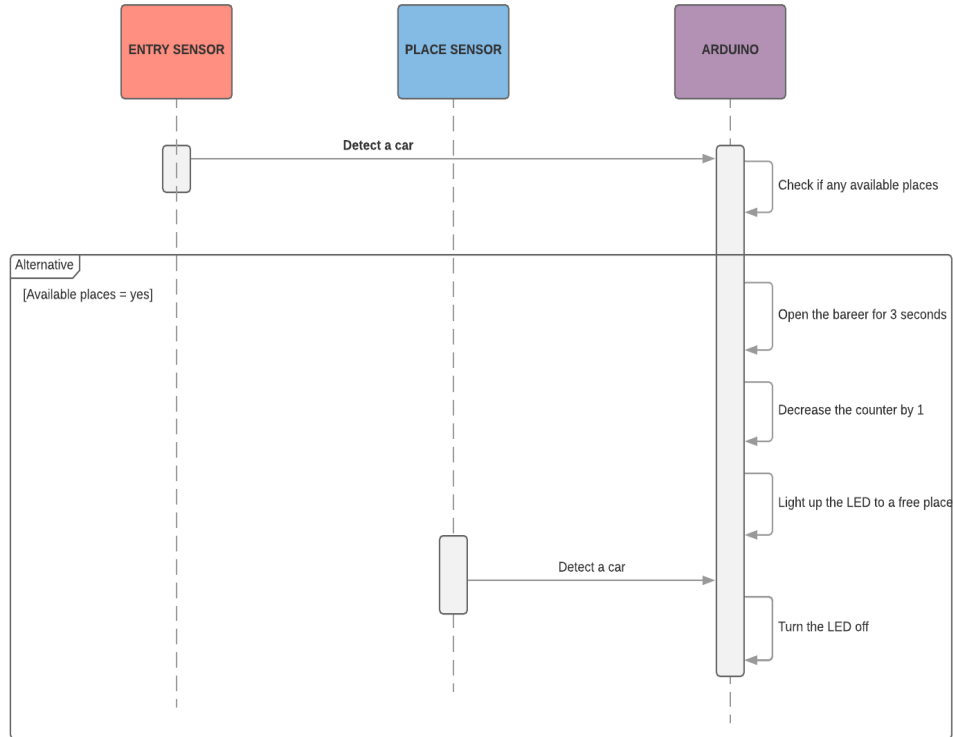


Exiting the parking



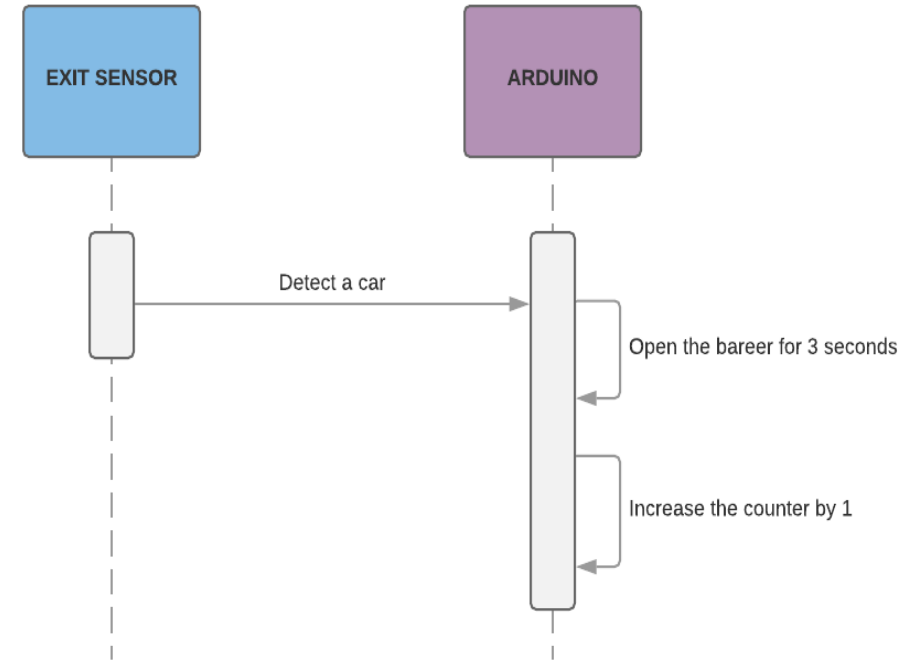
ENTRY DIAGRAM

Marion | December 20, 2019



EXIT DIAGRAM

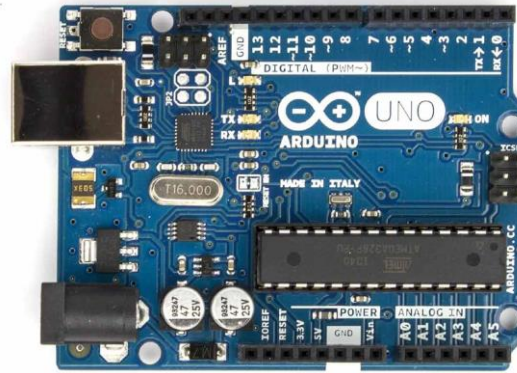
Marion | December 20, 2019

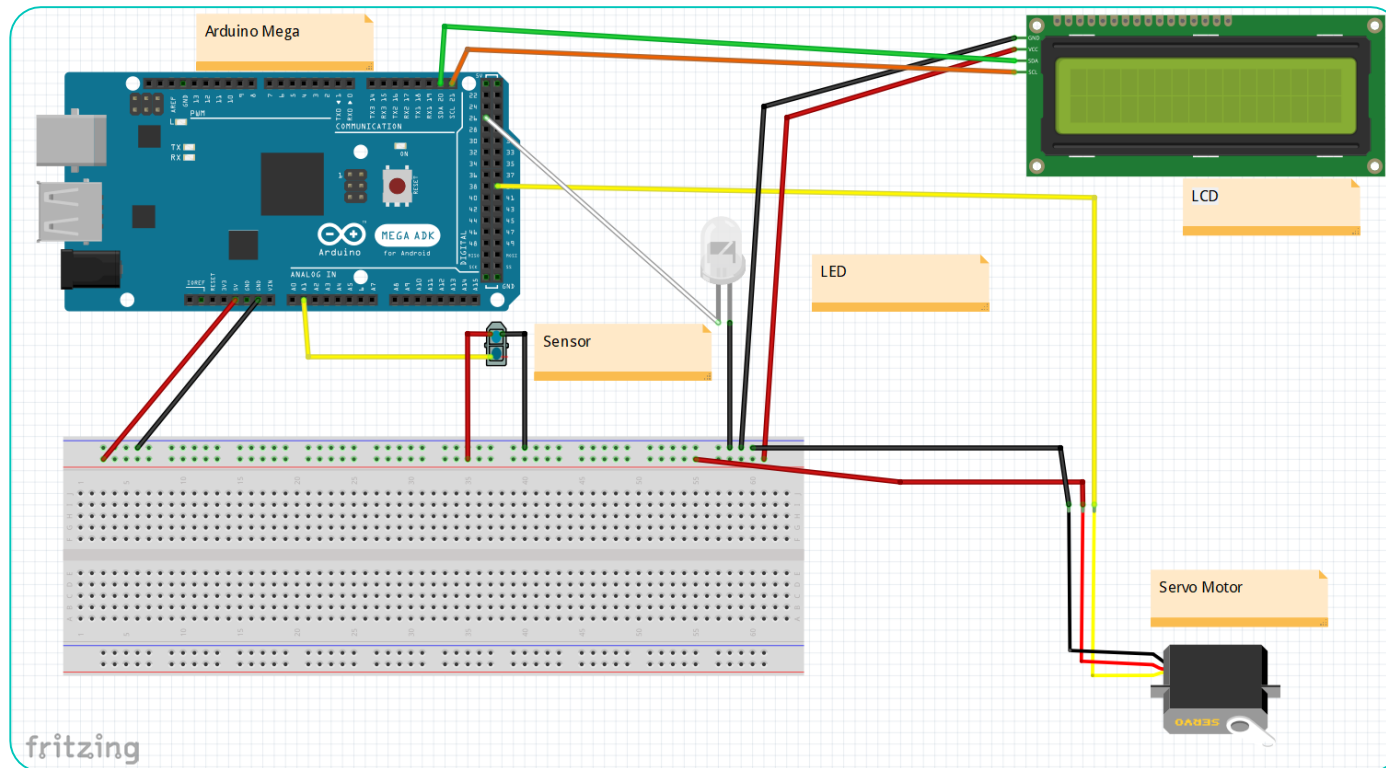


Sequence diagrams

The components

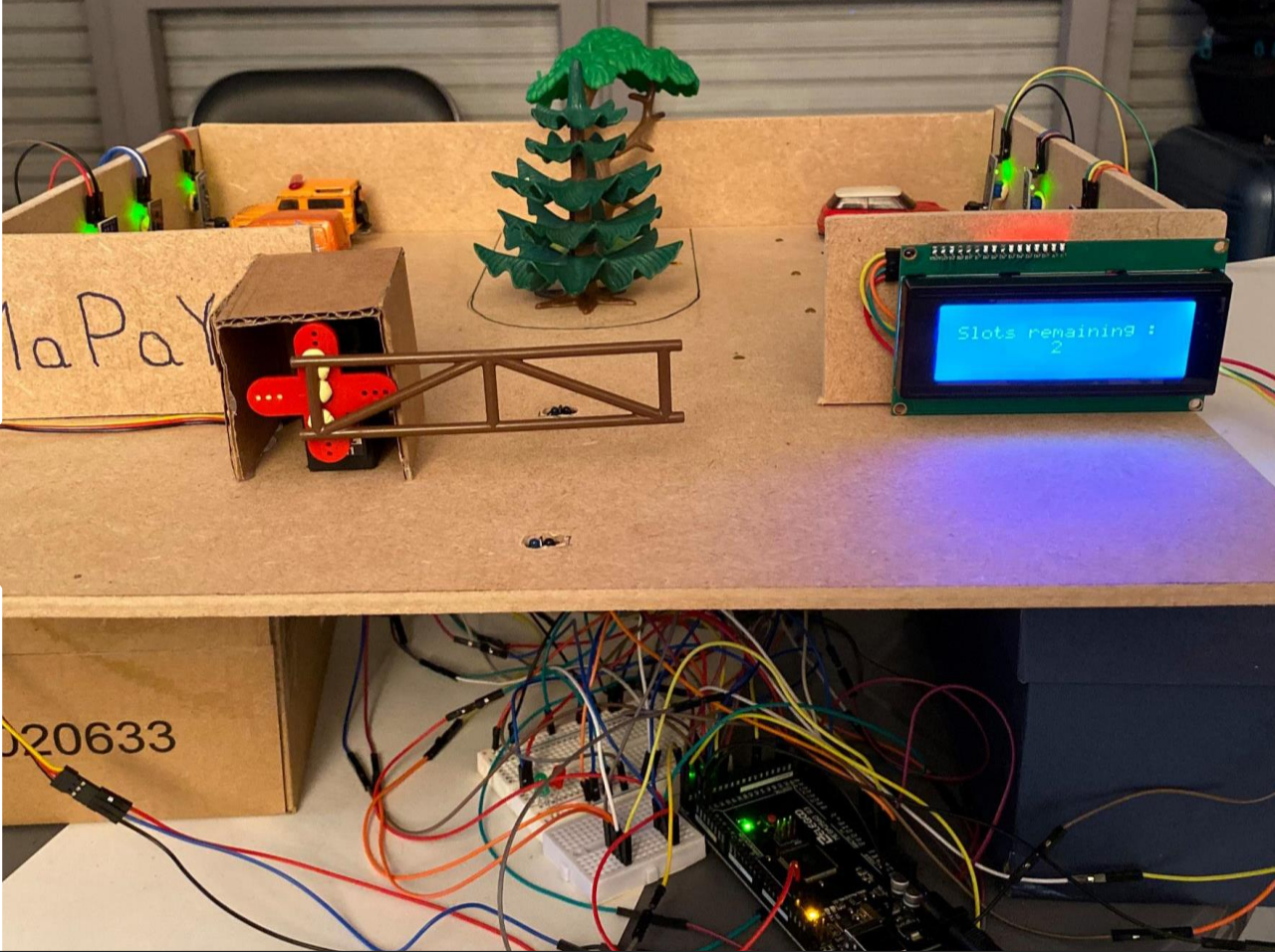
- Arduino MEGA
- IR sensors
- LED
- Resistors
- Servo motor
- LCD display





Fritzing

- 8 LEDs
- 1 servo motor
- 1 LCD display
- 8 IR sensors



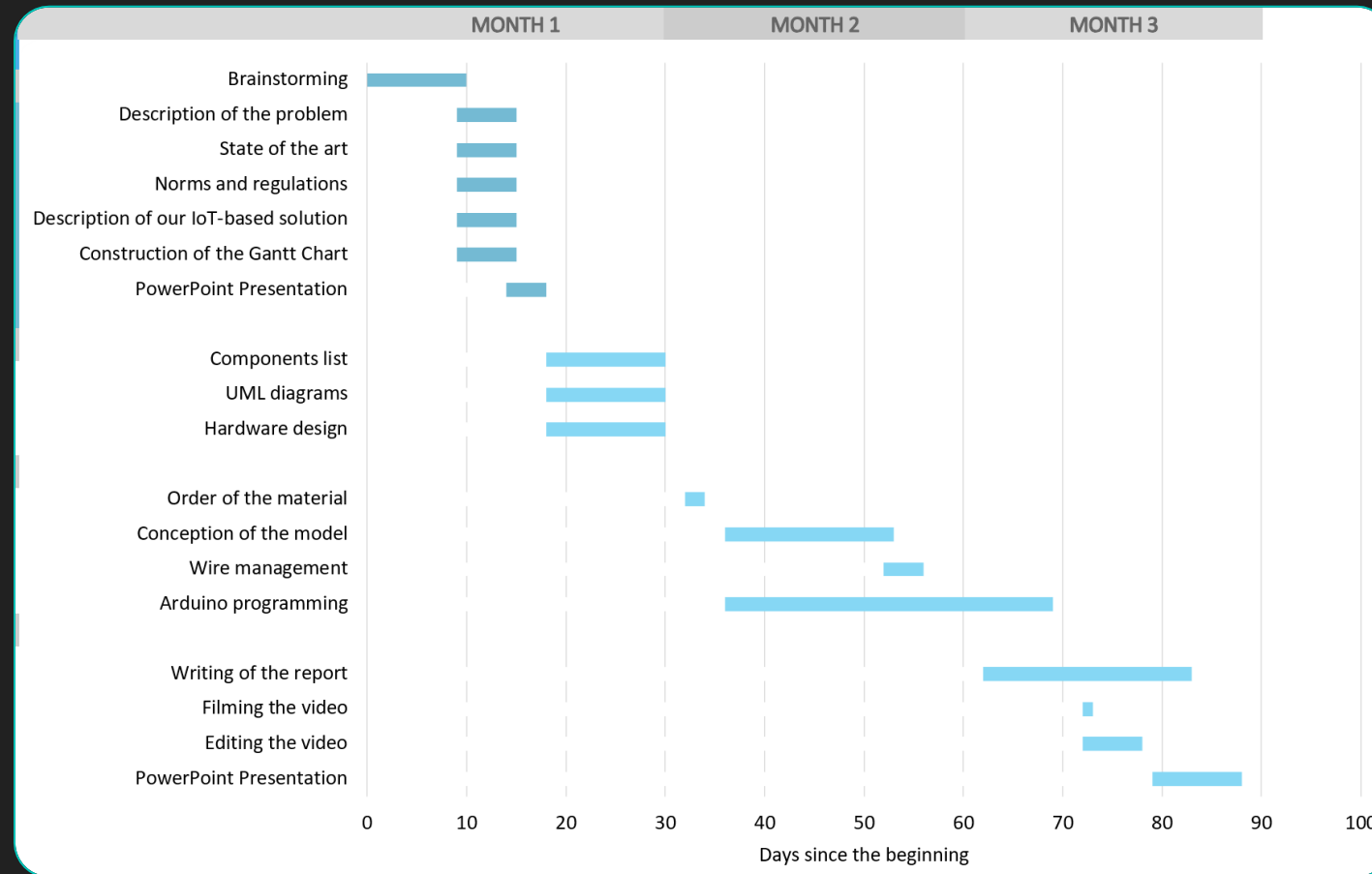
Final product

Promotional video

<https://www.youtube.com/watch?v=MBpFe5clkwY>



The organization



The organization

TASK NAME	START DATE	DAY OF MONTH*	END DATE	DURATION* (WORK DAYS)	DAYS COMPLETE*	DAYS REMAINING*	TEAM MEMBER	PERCENT COMPLETE
First phase								
Brainstorming	9/24	0	10/3	10	10	0	ALL	100%
Description of the problem	10/3	9	10/8	6	6	0	Aymeric	100%
State of the art	10/3	9	10/8	6	6	0	Marion	100%
Norms and regulations	10/3	9	10/8	6	6	0	Marion	100%
Description of our IoT-based solution	10/3	9	10/8	6	6	0	Pierre	100%
Construction of the Gantt Chart	10/3	9	10/8	6	6	0	Aymeric/Pierre	100%
PowerPoint Presentation	10/8	14	10/11	4	4	0	ALL	100%
Second phase								
Components list	10/12	18	10/23	12	12	0	Aymeric	100%
UML diagrams	10/12	18	10/23	12	12	0	Marion	100%
Hardware design	10/12	18	10/23	12	12	0	Aymeric	100%
Third phase								
Order of the material	10/26	32	10/27	2	2	0	Aymeric/Pierre	100%
Conception of the model	10/30	36	11/15	17	17	0	ALL	100%
Wire management	11/15	52	11/18	4	4	0	Aymeric	100%
Arduino programming	10/30	36	12/1	33	33	0	Pierre	100%
Fourth phase								
Writing of the report	11/25	62	12/15	21	21	0	ALL	100%
Filming the video	12/5	72	12/5	1	1	0	Aymeric/Pierre	100%
Editing the video	12/5	72	12/10	6	6	0	Pierre	100%
PowerPoint Presentation	12/12	79	12/20	9	9	0	ALL	100%