Logbook

Weekly Report

1st Week Report

- *The group arranged a meeting in order to get familiar.*
- *Started assigning tasks to different team members.*
- *Discussed a few ideas about marketing plans.*

2nd Week Report

- The first official meeting with the supervisors took place
- Task allocation and Gantt Chart was done
- Searching for components and materials already in progress
- Discussion about suggested ideas and advice which appeared during the 1st official meeting

3rd Week Report

Things that happened this week:

- Research on modules and materials continued
- First flowchart was created
- First draft of a logo was created
- First draft of leaflet was created
- Ethical code concerning our teamwork was set up and signed by teammembers
- Tried to find an appropriate market for the final product

4th Week Report

Things that happened this week:

- Leaflet was handed in
- Marketing plan was handed in
- List of material was handed in
- Spoke to client

5th Week Report

During our Eastern holiday week we:

- Started the state of the art
- Started to design webpage
- Started to modify a scrum document for project management, so that we can use one in the

future.

6th Week Report

Things that happened this week:

- We started to insert more info to the report sub-page on the wiki
- We finished the scrum excel file and are now able to use it for project management.
- We updated the gantt chart so that it matched the scrum file.
- We started to modify the existing marketing plan for the interim report.
- We started to write the sustainability and ethics part for the interim report

7th Week Report

Things that happened this week:

- Leaflet was updated according to Anas' comments.
- All separate documents were compiled into a interim report document.
- Presentation for interim report was created.
- All deliverables were uploaded to the wiki.

8th Week Report

Things that happened this week:

- Team prepared for the interim report presentation.
- Presentation was held.
- Feedback was received.

9th Week Report

Things that happened this week:

- We started to modify the report accoding to the comments that we received.

10th Week Report

Things that happened this week:

- We updated the marketing plan with an action prgramme and budget. We are still waiting for feedback from Andreia Gama.
- Schematics were updated.

11th Week Report

Things that happened this week:

- Asked for feedback for the deonotolgy & sustainability part.
- Started working on the poster
- Created first drafts of flow charts

12th Week Report

Things that happened this week:

- We received some parts of the order
- Feedback for marketing plan was received.

13th Week Report

Things that happened this week:

- Soldered the GSM breakout board
- We received some parts
- Feedback for deontology part was received.
- Deontology part was finalized

14th Week Report

Things that happened this week:

- Finalized sustainability part of final report
- Finalized marketing part of final report
- Finalized state of the art part of final report
- Compiled final report
- Created final presentation
- Website went online
- 3D renders of prototype were done
- Paper was written
- Started to write user manual
- Final delivery of component order was delivered

Meetings

1st Meeting (2013-03-01)

Agenda:

1. Presentation
2. Modus operandi
3. Project proposal

4. Electronic Logbook

Minute:

1. A team familiarized with the Wiki Page
2. Project topic was chosen
3. The first discussion about the project took place
4. A list of suggested questions for the first official meeting with supervisors was created

2nd Meeting (2013-03-07)

Agenda:

1. Presentation of team
2. Communication/Communication module
3. Power supply
4. Data storage
5. Weight
6. Suppliers
7. Radiation/ radiation control
8. Materials

Minute:

It was decided that we should:

- Create a list of devices/modules that meet the requirements
- Insert all attributes from devices into a list for easy comparison (power consumption, price and dimensions have to be taken into consideration)
- Check allowed levels of radiation, temperature etc. for pets as well as for humans
- Get Pro-form invoice from chosen supplier. Get VAT from Benedita
- Develop web interface in Linux. App for Android
- Figure out how to minimize the power consumption
- Define detailed scope of product

Other suggestions:

- Product as “clip-on” or collar (the matter of weight)
- Client's name is José Barros Oliveira

3rd Meeting (2013-03-14)

Agenda:

1. Considerations about prototype
2. Battery/battery charging module

3. Battery step-up regulator
4. Using the GSM/GPRS module
5. Using the GPS module
6. Standalone chip(PIC/AVR) vs arduino
7. Suppliers restrictions
8. Mobile Website vs Mobile App

Minute:

It was decided that we should:

- Create a “Top to bottom” agenda list next time.
- Create a Block diagram and add contents to it.
- Add logging to flowchart
- Choose if update interval should be fixed or adaptive.
- Investigate in FSK modules. Might need external antennas.
- Define final test requirements.
- Check with G7electronica 800 102 037 if they can agree upon paying after receiving materials
- Create a list as Manuel suggested.

Other suggestions/comments:

- Modes: Sleep mode when no activity. Wake up when activity resumes.
- Suppliers: Inmotion, Farnel

4th Meeting (2013-03-21)

Agenda:

1. Tracking system integration
2. Q2686 Module(Antenna, Mechanical Integration, Programming)
3. XM0110 Module(Antenna, Mechanical Integration)
4. GSM/GPRS to webserver

Minute:

- General considerations about the the Q2686 and XM0110 modules
- A transparent connection must be established between the communication module and the server

5th Meeting (2013-04-05)

Agenda:

1. Interim report(What to expect, guidelines, suggestions)
2. Interim Presentation

3. Building the pet tracker

Minute:

- Supervisors explained how the report and the presentation should be structured.
- They also showed us where to find templates for the required documents.

6th Meeting (2013-04-11)

Agenda:

1. General considerations about the report

Minute:

- Supervisors commented on some of the things for our report.
- Meeting was short due to lack of topics on the agenda.

7th "Meeting" (2013-04-11)

Agenda:

- Interim presentation

Minute:

- Presentation
- Discussion

8th Meeting (2013-04-26)

Agenda:

1. Power Supply design - evaluation of the current design
2. Programming the Arduino Pro Mini

Minute:

It was decided that we should:

- check the feedback from other professors about the report
- think about the switching regulators

- look for some regulators modules - there exist better suggestions than we found
- think about users' manual
- prepare more detailed signal schemating and drawings

9th Meeting (2013-05-02)

Agenda:

1. Status update on the components.
2. What happens if we are not allowed to buy the components.
3. Tasks to fulfill for the next days/weeks (what to do until we get the components?).

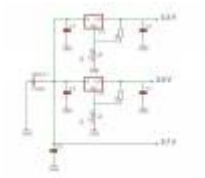
Minutes:

It was decided that we should:

- specify as much as possible all schematics
- keep on working with the web interface
- start programming soon

10th Meeting (2013-05-09)

Agenda:

1. 
2. Some more pictures

Minutes:

- Rethink power diagram. Use more simple solution.

11th Meeting (2013-05-16)

Agenda:

1. 

Minutes:

It was decided that we should:

- think about a current booster in our diagram
- meet with Mr. Joao Fransisco Silva to discuss few things connected with plastic container
- consider different types of container in Marketing Plan

12th Meeting (2013-05-23)

Agenda:

- Using a mobile phone as a GSM modem
- Getting data from Nokia PC Suite

Minutes:

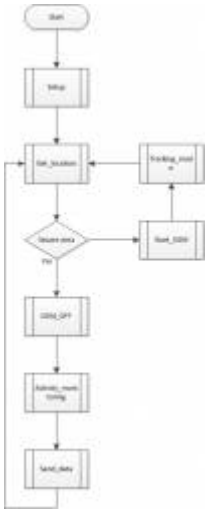
- Do not use Nokia PC suite.
- Supervisors gave suggestions about using GPRS instead of SMS.

13th Meeting (2013-05-30)

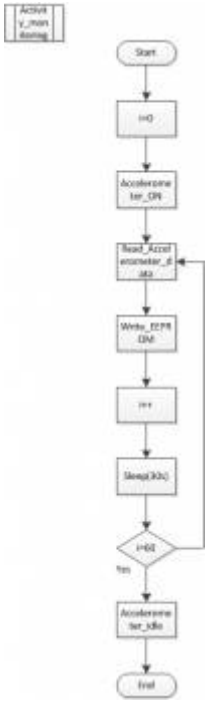
Agenda:

* Are the following flowcharts ok?:

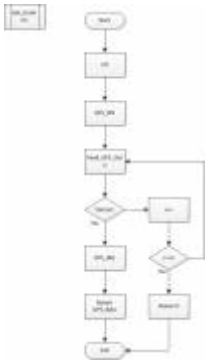
- General function flowchart



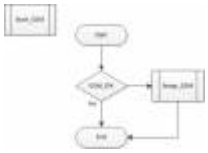
- Activity monitoring flowchart



- Get location flowchart



- Start GSM module flowchart



Minutes:

- relating to the 1st general flowchart, we should think about reading 2 sensors in the same time
- second and third charts should be re-done
- suggestion to the activity monitoring chart - we should think about minimizing numbers of writes (make some average values to make the data more smooth and useful to read)

14th Meeting (2013-06-06)

Agenda:

- Pushed deadlines?
- Time limits for presentation?
- How exactly the final presentation should look like?

Minutes:

Activities

Please register here all project activities

Start	End	Task	Description	Who
1.3.2013	3.3.2013	Choose project	-	All
1.3.2013	7.3.2013	Assign tasks to team members	-	All
10.3.2013	10.3.2013	Hand in task allocation chart		All
15.3.2013	18.3.2013	Create leaflet	-	Anton & Ola
1.3.2013	20.3.2013	Research modules	-	Artur
1.3.2013	21.3.2013	Make list of materials	-	All
19.3.2013	19.3.2013	Spread questionnaire on social medias	-	All
20.3.2013	21.3.2013	Researching the modules specifications	-	Artur
21.3.2013	21.3.2013	Create Marketing Plan	-	Anton & Ola
24.3.2013	25.3.2013	Update the list of materials	-	Artur
4.4.2013	4.4.2013	Create a workplan (product and sprint backlog)	-	Anton
4.4.2013	5.4.2013	Updated gantt chart	-	Anton
5.4.2013	6.4.2013	Start defining use cases	-	Marti
8.4.2013	10.4.2013	Updated sustainability and ethics part	-	Ola
8.4.2013	12.4.2013	Interim report	-	All
12.4.2013	13.4.2013	Interim report revision	-	Anton and Artur
12.4.2013	13.4.2013	Finish smartphones market analysis	-	Marti
13.4.2013	14.4.2013	Start designing power diagrams	-	Artur
22.4.2013	22.4.2013	Create new template for final report	-	Artur
29.4.2013	2.5.2013	Improving the report	-	Artur
1.5.2013	5.5.2013	Updating Marketing Plan	-	Anton & Ola
5.5.2013	6.5.2013	Defining final tests	-	Marti
9.5.2013	9.5.2013	Power supply redesign	-	Artur
21.5.2013	22.5.2013	Flowchart revision	-	Artur
22.5.2013	23.5.2013	Finalize the Ethics part of the report	-	Ola
23.5.2013	28.5.2013	Assembling and programming the GSM module and EEPROM	-	Artur
18.5.2013	30.5.2013	Finalize Marketing Plan	-	Anton
4.6.2013	4.6.2013	Finalize poster	-	Anton
4.6.2013	4.6.2013	Render 3D image of prototype	-	Anton
4.6.2013	4.6.2013	Update logbook on wiki page	-	Anton
4.6.2013	4.6.2013	Finalize the Sustainability part of the report	-	Ola
4.6.2013	4.6.2013	Start creating the video	-	Ola

Material List

Product	Link	Description	Quantity
GPS	https://www.sparkfun.com/products/8234	EM-408 with Antenna/MMCX	1
Arduino	https://www.sparkfun.com/products/11114	Arduino Pro Mini 328 - 3.3V/8MHz	1
Battery	http://pt.rs-online.com/web/p/paquetes-de-baterias-de-litio-recargables/5306325/	ENIX 3,7V 1840mAh	1
GPRS/GSM	https://www.sparkfun.com/products/10138	ADH8066	1
GPRS/GSM Board	https://www.sparkfun.com/products/10497	ADH8066 Breakout	1
Charger	https://www.sparkfun.com/products/10401	LiPo Charger Basic - Mini-USB	1
Antenna(GSM)	http://pt.rs-online.com/web/p/antenas-gsm-y-gprs/7043417/	GSMMQB - Mini Quad Band Antenna	1
Accelerometer	https://www.sparkfun.com/products/10955	Triple Axis Accelerometer Breakout	1
Memory	http://pt.rs-online.com/web/p/chips-de-memoria-eeprom/0454145/	I2C EEPROM - 1Mbit	1