

Sprint 1

Sprint 1 Backlog From 23/03 To 06/04									
Sprint 1 Tasks							Remaining hours		
User Story	Task_ID	Team	Task Description	Hours	Status	Responsible	Day 1	Day 2	Day 3
1	1	SM	Document meetings	2	Done	Khaled	1	0.75	0
1	2	IoT	Design black-box test cases for the use case	0.5	Done	Morten	0.5	0	0
1	3	AND	Perform black-box test cases for the use case	0.5	Incomplete	AND Team	0.5	0.5	0.5
5	4	IoT	Design black-box test cases for the use case	0.5	Done	Khaled	0.5	0	0
5	5	AND	Perform black-box test cases for the use case	0.5	Incomplete	AND Team	0.5	0.5	0.5
6	6	IoT	Design black-box test cases for the use case	0.5	Done	Morten	0.5	0	0
6	7	AND	Perform black-box test cases for the use case	0.25	Incomplete	AND Team	0.25	0.25	0.25
1	8	DAI	Design Conceptual Model	1.5	Done	DAI Team	0	0	0
1	9	DAI	Design Logical Model	1.5	Done	DAI Team	0	0	0
1	10	DAI	Create DB Tables	1.5	Done	Agostina	1.5	0	0
1	11	DAI	Design Star Schema	2	Done	Luis	1	0	0
1	12	DAI	Create DW Tables	1	Done	Luis	1	0	0
*	13	DAI	Create data server web service	4	Done	Tomas	2	0	0
1	14	DAI	Extract data to dw	2	Done	Luis	2	0	0
1	15	DAI	Transform data in dw	3	Done	Luis	3	1.5	0
*	16	DAI	Load data to dw with dummy data	3	Done	Luis	3	2	0
1	17	DAI	Create connection to SQL server	5	Done	Adriana	5	1	0
5	18	DAI	Design Conceptual Model	0.5	Done	DAI Team	0	0	0

5	19	DAI	Design Logical Model	0.5	Done	DAI Team	0	0	0
*	20	DAI	Create login endpoint and classes	6	Done	Tomas	6	4	0
6	21	DAI	Create measurements endpoint and Model	1	Done	Agostina	1	1	0
6	22	DAI	Create Area endpoint and Model	0.5	Done	Agostina	0	0	0
*	23	DAI	Create Area Dao and repository	0.5	Done	Adriana	0.5	0.5	0
*	24	AND	Design general android UI	4	Done	George Eduard	0	0	0
1	25	AND	Design View	5	Done	Stefania	2	1	0
1	26	AND	Implement ViewModel	3	Done	Stefania	3	2	0
1	27	AND	Design Model	2.5	Done	Vlad	0	0	0
*	28	AND	Design Navigation	3	Done	Georgiana	0	0	0
5	29	AND	Design View	1	Done	Tabita	0	0	0
5	30	AND	Implement ViewModel	1	Done	Tabita	1	0	0
5	31	AND	Design Model	2	Done	Tabita	0	0	0
6	32	AND	Design View	1	Done	Tabita	0	0	0
6	33	AND	Implement ViewModel	1	Done	Tabita	1	0	0
6	34	AND	Design Model	1	Done	Vlad	0	0	0
*	35	AND	Connection to business tier	2	Done	Vlad	2	1	0
*	36	AND	Create unit tests	3	Incomplete	George Eduard	3	3	3
*	37	AND	Implement the app theme	2	Done	Georgiana	2	1	0
1	38	AND	Implement Model	2	Done	Stefania	0	0	0
5	39	AND	Implement Model	1	Done	Vlad	0	0	0
6	40	AND	Implement Model	1	Done	Vlad	0	0	0
41	41	AND	Implement View	1	Incomplete	Tabita	1	1	1
41	42	AND	Implement ViewModel	2	Incomplete	Tabita	2	2	1

41	43	AND	Implement Model	1	Incomplete	George Eduard	1	1	1
42	44	AND	Implement View	2	Done	Vlad	2	2	0
42	45	AND	Implement ViewModel	1	Done	Vlad	1	1	0
42	46	AND	Implement Model	1	Incomplete	George Eduard	1	1	1
42	47	AND	Connection to business tier	4	Done	Stefania	4	2	0
41	48	AND	Connection to business tier	4	Done	Stefania	4	2	0
*	49	DAI	Class diagram for persistence	1	Done	Adriana	1	1	0
*	50	DAI	Class diagrams for connection	1	Done	Agostina	1	0	0
1	51	IoT	Measure temperature data and store it locally	4	Incomplete	IoT Team	4	4	4
1	52	IoT	Send the data to the business tier	2	Incomplete	IoT Team	2	2	2
1	53	IoT	Design class diagram for requirement 1	6	Incomplete	Adrian Gabriel	6	6	4
1	54	IoT	Design sequence diagram	2	Incomplete	IoT Team	2	2	2
1	55	IoT	Implement google tests	4	Incomplete	IoT Team	4	4	4
*	56	IoT	Manage areas use case description	2.5	Done	Adrian Gabriel	0.5	0	0
*	57	IoT	Manage devices use case description	1.5	Done	Khaled	0	0	0
*	58	IoT	Create the C project with FreeRTOS and the hardware drivers	1	Done	Morten	1	1	0
				114.75			81.25	52	24.25

Table 1 - Sprint 1 Backlog

Sprint 2

Sprint 2 Backlog From 20/04 To 04/05									
Sprint 2 Tasks							Remaining hours		
User Story	Task_ID	Team	Task Description	Hours	Status	Responsible	Day 1	Day 2	Day 3
*	1	SM	Document meetings	2	Done	Khaled	1	0.75	0
1	2	DAI	Create gateway web socket connections for temperature	8	Done	Tomas	8	6	0
3	3	DAI	Create gateway web socket connections for humidity	4	Done	Tomas	4	2	0
*	4	AND	Create unit tests	8	Incomplete	George Eduard	8	8	8
41	5	AND	Implement View	4	Done	Tabita	2	0	0
41	6	AND	Implement ViewModel	4	Done	Tabita	2	0	0
41	7	AND	Implement Model	3	Done	Stefania	2	0	0
42	8	AND	Implement Model	3	Done	Vlad	3	0	0
3	9	AND	Implement View	3	Done	Vlad	2	2	0
3	10	AND	Implement ViewModel	3	Done	Vlad	3	0	0
3	11	AND	Implement Model	3	Done	Vlad	3	3	0
1	12	AND	Refactor View	5	Done	Stefania	3	2	0
*	13	AND	Documentation	15	Incomplete	AND Team	15	15	13
1, 3	14	IoT	Measure temperature & humidity data	11	Done	Khaled	8	1	0
1, 3	15	IoT	Send the data to the business tier	6	Done	Morten	5	1	0
1, 3	16	IoT	Design class diagram	9	Done	Adrian Gabriel	6	3	0
1	17	IoT	Design sequence diagram	16	Done	Morten	14	3	0
1	18	IoT	Implement google tests	4	Incomplete	Adrian Gabriel	4	4	4
*	19	IoT	Documentation	3	Incomplete	IoT Team	3	3	3

*	20	DAI	Generate dummy data	6	Done	Luis	6	0	0
1	21	DAI	Create endpoint for temperature measurement	4	Done	Adriana	2	0	0
3	22	DAI	Create endpoint for humidity measurement	4	Done	Agostina	4	0	0
*	23	DAI	Documentation	8	Incomplete	DAI Team	8	8	6
1	24	DAI	Implement data validation temperature	4	Incomplete	DAI Team	4	4	4
3	25	DAI	Implement data validation humidity	4	Incomplete	DAI Team	4	4	4
5	26	DAI	Implement data validation register user	2	Done	Tomas	1	0	0
6	27	DAI	Implement data validation login	2	Done	Tomas	1	0	0
5	28	AND	Refactor code	5	Done	Stefania	4	2	0
6	29	AND	Refactor code	6	Incomplete	Georgiana	5	3	1
41	30	AND	Refactor code	6	Incomplete	Georgiana	6	6	6
42	31	AND	Refactor code	5	Done	Stefania	2	1	0
*	32	DAI	Refactor the measurements	2	Done	Adriana	1	0	0
*	33	DAI	Implement incremental load	9	Done	Luis	1	1	0
*	34	DAI	Class Diagram	2	Done	Tomas	2	2	0
41	35	DAI	Create endpoint Area Get	4	Done	Agostina	4	0	0
42	36	DAI	Create endpoint Area Post	4	Done	Agostina	4	2	0
*	37	AND	Refactor code	10	Done	Stefania	8	5	0
*	38	DAI	Refactor model/code	5	Done	Luis	5	5	0
*	39	DAI	Data warehouse documentation draft	4	Done	Luis	4	3	0
				210			172	99.75	49

Table 2 - Sprint 2 Backlog

Sprint 3

Sprint 3 Backlog From 13/05 To 19/05									
Sprint 3 Tasks							Remaining hours		
User Story	Task ID	Team	Task Description	Hours	Status	Responsible	Day 1	Day 2	Day 3
	1	SM	Scrum documentation	2	Done	Khaled	1	0.75	0
1	2	IoT	Implement google tests	18	Incomplete	Adrian Gabriel	18	16	16
*	3	IoT	Documentation	12	Incomplete	IoT Team	12	12	12
2,4	4	IoT	Update class diagram	6	Done	Khaled	0	0	0
2	5	IoT	Implement functionality & send data	6	Done	Morten	0	0	0
4	6	IoT	Implement functionality & send data	6	Done	Adrian Gabriel	0	0	0
11, 12, 13, 14	7	IoT	Create black box test scenarios	1.5	Done	Morten	1.5	0.75	0
33, 36	8	IoT	Create black box test scenarios	3	Done	Adrian Gabriel	3	3	0
41	9	IoT	Create black box test scenarios	1.5	Done	Khaled	1.5	0	0
2, 3, 4	10	IoT	Create black box test scenarios	1.5	Done	Khaled	1.5	0	0
33	11	AND	Implement view	2	Done	Vlad	2	0	0
33	12	AND	Implement functionality	2	Done	Vlad	2	0	0
*	13	AND	Create unit tests	2	Done	George Eduard	1	1	0
2	14	AND	Implement View	5	Done	Tabita	2	1	0
2	15	AND	Implement ViewModel	5	Done	Tabita	2	1	0
2	16	AND	Implement Model	3	Done	Tabita	2	1	0
2	17	AND	Black-Box Testing	1	Done	Georgiana	0.25	0.25	0
4	18	AND	Implement View	6	Done	Georgiana	4	1	0
4	19	AND	Implement ViewModel	4	Done	Georgiana	1	2	0

4	20	AND	Implement Model	5	Done	Georgiana	1	1	0
4	21	AND	Perform black-box testing	1	Done	Tabita	0	0	0
5	22	AND	Refactor code	2	Done	Stefania	1	0	0
6	23	AND	Refactor code	5	Done	Stefania	3	1	0
36	24	AND	Implement View	5	Done	Tabita	2	0	0
36	25	AND	Implement ViewModel	5	Done	Tabita	2	0	0
36	26	AND	Implement Model	4	Done	Tabita	0	0	0
36	27	AND	Perform black-box testing	1	Done	Stefania	1	0	0
11	28	AND	Implement View	4	Done	Stefania	3	1	0
11	29	AND	Implement ViewModel	4	Done	Stefania	1	0	0
11	30	AND	Implement Model	4	Done	Stefania	1	0	0
14	31	AND	Implement View	4	Done	Vlad	2	0	0
14	32	AND	Implement ViewModel	4	Done	Vlad	2	0	0
14	33	AND	Implement Model	4	Done	Vlad	2	0	0
12, 13, 14	34	AND	Black-Box Testing	1	Done	Vlad	1	1	0
41	35	AND	Refactor code	2	Done	Vlad	2	0	0
*	36	AND	Documentation	14	Done	AND Team	14	14	0
36	37	AND	Refactor code	3	Done	Stefania	3	3	0
11	38	AND	Perform black-box testing	1	Done	George Eduard	0.5	0.5	0
41	39	AND	Perform black-box testing	1	Done	Tabita	0	0	0
5	40	AND	Perform black-box testing	1	Done	Vlad	1	1	0
6	41	AND	Perform black-box testing	1	Done	Vlad	1	1	0
6	42	AND	Refactor App Details	2	Done	George Eduard	1	1	0
12, 13	43	AND	Implement View	2	Done	Vlad	2	2	0

12, 13	44	AND	Implement Model	2	Done	Vlad	2	2	0
2	45	DAI	Create endpoint	2	Done	Agostina	0	0	0
4	46	DAI	Create endpoint	2	Done	Luis	2	0	0
4	47	DAI	Create validations	4	Done	Luis	4	3	0
1	48	DAI	Test validation	1	Done	Adriana	0	0	0
1	49	DAI	Implement data validation temperature	4	Done	Tomas	0	0	0
3	50	DAI	Implement data validation humidity	4	Done	Tomas	0	0	0
4	51	DAI	Implement repository	4	Done	Luis	4	0	0
2	52	DAI	Implement repository	4	Done	Agostina	0	0	0
2	53	DAI	Implement data validation for co2	4	Done	Agostina	0	0	0
8	54	DAI	Create report	4	Done	Agostina	4	1	0
10	55	DAI	Create report	4	Done	Agostina	3	1	0
*	56	DAI	Implement incremental load	6	Done	Luis	2	0	0
14	57	DAI	Create endpoint	2	Done	Adriana	0	0	0
*	58	DAI	Finalise and include dw scripts in repo	2	Done	Luis	0	0	0
14	59	DAI	Implement repository	4	Done	Adriana	0	0	0
11	60	DAI	Create endpoint	2	Done	Tomas	0	0	0
11	61	DAI	Implement repository	4	Done	Tomas	0	0	0
36	62	DAI	Implement repository	4	Done	Adriana	4	4	0
36	63	DAI	Implement model	4	Done	Adriana	4	4	0
36	64	DAI	Create endpoint	2	Done	Adriana	2	2	0
*	65	DAI	Documentation	4	Done	DAI Team	4	3	0
*	66	DAI	Refactor code	6	Done	DAI Team	4	2	0
3	67	DAI	Test validation	1	Done	Tomas	1	0	0

2	68	DAI	Test validation	1	Done	Agostina	0	0	0
4	69	DAI	Test validation	1	Done	Luis	1	1	0
8	70	DAI	Implement scheduler for incremental load script	4	Done	Tomas	4	0	0
*	71	DAI	Implement logs for received data from lorawan socket	2	Done	Tomas	2	0	0
12	72	DAI	Implement repository	2	Done	Agostina	2	2	0
12	73	DAI	Create endpoint	2	Done	Agostina	2	2	0
13	74	DAI	Implement repository	2	Done	Luis	2	2	0
13	75	DAI	Create endpoint	2	Done	Luis	2	2	0
				263.5			156.25	97.25	28

Table 3 - Sprint 3 Backlog

Sprint 4

Sprint 4 Backlog From 20/05 To 24/05									
Sprint 4 Tasks							Remaining hours		
User Story	Task ID	Team	Task Description	Hours	Status	Responsible	Day 1	Day 2	Day 3
*	1	SM	Scrum documentation	2	Done	Khaled	1	0.75	0
1	2	IoT	Implement google tests	21	Incomplete	Adrian Gabriel	15	6	3
*	3	IoT	Documentation	12	Incomplete	IoT Team	12	12	12
*	4	IoT	Update class diagram	9	Done	Morten	9	1	0
15, 16, 17, 18	5	IoT	Implement functionality	9	Done	Khaled	9	3	0
45, 46, 47, 48	6	IoT	Create blackbox test scenarios	0.5	Done	Morten	0	0	0
15, 16, 17, 18	7	IoT	Create blackbox test scenarios	0.5	Done	Morten	0	0	0

19, 20, 21, 22	8	IoT	Create blackbox test scenarios	0.5	Done	Morten	0	0	0
26	9	IoT	Create blackbox test scenarios	0.25	Done	Morten	0	0	0
31	10	IoT	Create blackbox test scenarios	0.25	Done	Morten	0	0	0
32	11	IoT	Create blackbox test scenarios	0.25	Done	Morten	0	0	0
35	12	IoT	Create blackbox test scenarios	0.25	Done	Morten	0	0	0
44	13	IoT	Create blackbox test scenarios	0.25	Done	Morten	0	0	0
*	14	AND	Documentation	10	Incomplete	AND Team	10	8	7
15	15	AND	Implement View	5	Done	Stefania	0	0	0
15	16	AND	Implement ViewModel	2	Done	Stefania	0	0	0
15	17	AND	Implement Model	2	Done	Stefania	0	0	0
15	18	AND	BlackBox Testing	0.5	Done	Tabita	0.5	0.5	0
16	19	AND	Implement View	3	Done	Stefania	1	0	0
16	20	AND	Implement ViewModel	1	Done	Stefania	1	0	0
16	21	AND	Implement Model	1	Done	Stefania	1	0	0
16	22	AND	BlackBox Testing	0.5	Done	Tabita	0.5	0.5	0
17	23	AND	Implement View	3	Done	Stefania	3	3	0
17	24	AND	Implement ViewModel	1	Done	Stefania	0	0	0
17	25	AND	Implement Model	1	Done	Stefania	0	0	0
17	26	AND	BlackBox Testing	0.5	Done	Tabita	0.5	0.5	0
18	27	AND	Implement View	1	Done	Stefania	0	0	0
18	28	AND	Implement ViewModel	1	Done	Stefania	0	0	0
18	29	AND	Implement Model	1	Done	Stefania	0	0	0
18	30	AND	BlackBox Testing	0.5	Incomplete	Tabita	0.5	0.5	0.5
19	31	AND	Implement View	4	Done	Tabita	0	0	0

19	32	AND	Implement ViewModel	4	Done	Tabita	2	2	0
19	33	AND	Implement Model	2	Done	Tabita	2	2	0
19	34	AND	BlackBox Testing	1	Done	Georgiana	1	1	1
20	35	AND	Implement View	1	Done	Tabita	0	0	0
20	36	AND	Implement ViewModel	1	Done	Tabita	0	0	0
20	37	AND	Implement Model	1	Done	Tabita	0	0	0
20	38	AND	BlackBox Testing	0.5	Done	Vlad	0.5	0.5	0
21	39	AND	Implement View	1	Done	Tabita	0.5	0.5	0
21	40	AND	Implement ViewModel	1	Done	Tabita	0.5	0.5	0
21	41	AND	Implement Model	1	Done	Tabita	0.5	0.5	0
21	42	AND	BlackBox Testing	0.5	Done	Vlad	0.5	0.5	0
22	43	AND	Implement View	1	Done	Tabita	0.5	0.5	0
22	44	AND	Implement ViewModel	1	Done	Tabita	0.5	0.5	0
22	45	AND	Implement Model	1	Done	Tabita	0.5	0.5	0
22	46	AND	BlackBox Testing	0.5	Done	Vlad	0.5	0.5	0
26	47	AND	Implement View	3	Done	Vlad	0	0	0
26	48	AND	Implement ViewModel	3	Done	Vlad	2	0	0
26	49	AND	Implement Model	2	Done	Vlad	1	0	0
26	50	AND	BlackBox Testing	1	Done	Georgiana	0	0	0
31	51	AND	Implement View	3	Done	Georgiana	0	0	0
31	52	AND	Implement ViewModel	3	Done	Georgiana	0	0	0
31	53	AND	Implement Model	2	Done	Georgiana	0	0	0
31	54	AND	BlackBox Testing	0.5	Done	Tabita	0.5	0.5	0
32	55	AND	Implement View	3	Incomplete	George Eduard	1	1	1

32	56	AND	Implement ViewModel	3	Incomplete	George Eduard	1	1	1
32	57	AND	Implement Model	2	Incomplete	George Eduard	1	1	0.5
32	58	AND	BlackBox Testing	0.5	Incomplete	Georgiana	0.5	0.5	0.5
35	59	AND	Implement View	3	Done	George Eduard	0	0	0
35	60	AND	Implement ViewModel	3	Done	George Eduard	0	0	0
35	61	AND	Implement Model	1	Done	George Eduard	0	0	0
35	62	AND	BlackBox Testing	1	Incomplete	Georgiana	1	1	1
44	63	AND	Implement View	1	Done	Georgiana	0.5	0.5	0
44	64	AND	Implement ViewModel	1	Done	Georgiana	0.5	0.5	0
44	65	AND	Implement Model	1	Done	Georgiana	0.5	0.5	0
44	66	AND	BlackBox Testing	0.5	Done	Vlad	0.5	0.5	0
34	67	AND	Implement View	3	Done	Vlad	0	0	0
34	68	AND	Implement ViewModel	3	Done	Vlad	0	0	0
34	69	AND	Implement Model	2	Done	Vlad	0	0	0
34	70	AND	BlackBox Testing	0.5	Done	Georgiana	0.5	0.5	0
43	71	AND	Implement View	3	Done	Vlad	0	0	0
43	72	AND	Implement ViewModel	3	Done	Vlad	0	0	0
43	73	AND	Implement Model	2	Done	Vlad	0	0	0
43	74	AND	BlackBox Testing	0.5	Done	Stefania	0.5	0	0
45	75	AND	Implement View	5	Done	Stefania	0	0	0
45	76	AND	Implement ViewModel	1	Done	Stefania	0	0	0
45	77	AND	Implement Model	1	Done	Stefania	0	0	0
45	78	AND	BlackBox Testing	0.5	Done	George Eduard	0	0	0
46	79	AND	Implement View	1	Done	Stefania	0	0	0

46	80	AND	Implement ViewModel	1	Done	Stefania	0	0	0
46	81	AND	Implement Model	1	Done	Stefania	0	0	0
46	82	AND	BlackBox Testing	0.5	Done	George Eduard	0	0	0
47	83	AND	Implement View	1	Done	Stefania	0	0	0
47	84	AND	Implement ViewModel	1	Done	Stefania	0	0	0
47	85	AND	Implement Model	1	Done	Stefania	0	0	0
47	86	AND	BlackBox Testing	0.5	Done	Tabita	0.5	0.5	0
48	87	AND	Implement View	1	Done	Stefania	0	0	0
48	88	AND	Implement ViewModel	1	Done	Stefania	0	0	0
48	89	AND	Implement Model	1	Done	Stefania	0	0	0
48	90	AND	BlackBox Testing	1	Done	Georgiana	0.5	0.5	0
*	91	AND	Implement donut charts	4	Done	Stefania	4	4	0
*	92	AND	Implement Roomdabse for each entity	4	Done	Stefania	4	4	0
49	93	AND	Implement View	1	Done	Stefania	0	0	0
49	94	AND	Implement ViewModel	1	Done	Stefania	0	0	0
49	95	AND	Implement Model	1	Done	Stefania	0	0	0
49	96	AND	BlackBox Testing	0.5	Done	Vlad	0.5	0.5	0
50	97	AND	Implement View	1	Done	Stefania	1	1	0
50	98	AND	Implement ViewModel	1	Done	Stefania	1	1	0
50	99	AND	Implement Model	1	Done	Stefania	1	1	0
50	100	AND	BlackBox Testing	0.5	Done	Georgiana	0.5	0.5	0
51	101	AND	Implement View	1	Done	Stefania	1	1	0
51	102	AND	Implement ViewModel	1	Done	Stefania	1	1	0
51	103	AND	Implement Model	1	Done	Stefania	1	1	0

51	104	AND	BlackBox Testing	0.5	Incomplete	George Eduard	0.5	0.5	0.5
52	105	AND	Implement View	1	Done	Stefania	1	1	0
52	106	AND	Implement ViewModel	1	Done	Stefania	0	0	0
52	107	AND	Implement Model	1	Done	Stefania	0	0	0
52	108	AND	BlackBox Testing	0.5	Incomplete	Tabita	0.5	0.5	0.5
7	109	DAI	Create reports	1	Done	Agostina	0	0	0
9	110	DAI	Create reports	2	Done	Agostina	2	0	0
15,16,17,18	111	DAI	Design tables	1	Done	DAI Team	0	0	0
15	112	DAI	Implement repository	2	Done	Tomas	0	0	0
15	113	DAI	Create endpoints	4	Done	Tomas	0	0	0
16	114	DAI	Implement repository	1	Done	Tomas	0	0	0
16	115	DAI	Create endpoints	1	Done	Tomas	0	0	0
17	116	DAI	Implement repository	2	Done	Luis	0	0	0
17	117	DAI	Create endpoints	4	Done	Luis	0	0	0
18	118	DAI	Implement repository	1	Done	Luis	0	0	0
18	119	DAI	Create endpoints	2	Done	Luis	0	0	0
15	120	DAI	Test endpoints	1	Done	Tomas	0	0	0
16	121	DAI	Test endpoints	1	Done	Tomas	0	0	0
17	122	DAI	Test endpoints	1	Done	Luis	1	0	0
18	123	DAI	Test endpoints	1	Done	Luis	1	0	0
19,20,21,22	124	DAI	Design tables	1	Done	DAI Team	0	0	0
19	125	DAI	Implement repository	2	Done	Agostina	2	2	0
19	126	DAI	Create endpoints	1	Done	Agostina	1	1	0
20	127	DAI	Implement repository	1	Done	Agostina	0	0	0

20	128	DAI	Create endpoints	0.5	Done	Agostina	0	0	0
21	129	DAI	Implement repository	1	Done	Adriana	0	0	0
21	130	DAI	Create endpoints	0.5	Done	Adriana	0	0	0
22	131	DAI	Implement repository	2	Done	Adriana	0	0	0
22	132	DAI	Create endpoints	1	Done	Adriana	0	0	0
23	133	DAI	Create endpoints	0.5	Done	Adriana	0.5	0.5	0
23	134	DAI	Implement repository	0.5	Done	Adriana	0.5	0.5	0
23	135	DAI	Create socket connection	8	Done	Adriana	8	8	0
23	136	DAI	Create tests	1	Done	Adriana	1	1	0
24	137	DAI	Create endpoints	0.5	Done	Agostina	0	0	0
24	138	DAI	Implement repository	0.5	Done	Agostina	0	0	0
24	139	DAI	Create socket connection	2	Done	Agostina	0	0	0
24	140	DAI	Create tests	1	Done	Agostina	0	0	0
25	141	DAI	Create endpoints	0.5	Done	Luis	0.5	0.5	0
25	142	DAI	Implement repository	0.5	Done	Luis	0.5	0.5	0
25	143	DAI	Create socket connection	2	Done	Luis	2	2	0
25	144	DAI	Create tests	1	Done	Luis	1	1	0
26	145	DAI	Implement repository	1	Done	Adriana	0	0	0
26	146	DAI	Create endpoints	0.5	Done	Adriana	0	0	0
26	147	DAI	Design tables	1	Done	DAI Team	0	0	0
26	148	DAI	Test endpoints	1	Done	Adriana	0	0	0
31	149	DAI	Refactor endpoint	1	Done	DAI Team	0	0	0
31	150	DAI	Implement repository	1	Done	DAI Team	0	0	0
32	151	DAI	Refactor endpoint	1	Done	DAI Team	0	0	0

32	152	DAI	Implement repository	1	Done	DAI Team	0	0	0
31	153	DAI	testing	1	Done	Agostina	1	1	0
32	154	DAI	testing	1	Done	Luis	1	0	0
34	155	DAI	testing	1	Done	Agostina	0	0	0
34	156	DAI	Implement repository	0.25	Done	DAI Team	0	0	0
34	157	DAI	Create endpoints	0.25	Done	DAI Team	0	0	0
*	158	DAI	Documentation	8	Incomplete	DAI Team	8	8	4
43	159	DAI	testing	1	Done	DAI Team	0	0	0
43	160	DAI	Implement repository	0.5	Done	Agostina	0	0	0
43	161	DAI	Create endpoints	0.5	Done	Agostina	0	0	0
15, 16, 17, 18	162	DAI	Create validations and tests	2	Done	Tomas	2	2	0
15, 16, 17, 18	163	DAI	Endpoint create threshold	1	Done	Tomas	1	1	0
				279.25			130.5	96.75	32.5

Table 4 - Sprint 4 Backlog

Sprint 5

Sprint 5 Backlog From 25/05 To 27/05									
Sprint 4 Tasks							Remaining hours		
User Story	Task ID	Team	Task Description	Hours	Status	Responsible	Day 1	Day 2	Day 3
*	1	SM	Scrum documentation	2	Done	Khaled	1	0.75	0
1	2	IoT	Implement google tests	3	Done	Adrian Gabriel	3	3	0
*	3	IoT	Documentation	21	Done	IoT Team	12	9	0

23, 24	4	IoT	Refactor use case diagram, add use case description	6	Done	Khaled	0	0	0
*	5	IoT	Code refactoring	6	Done	Morten	6	6	0
*	6	IoT	Testing LoRaWAN downlink message	12	Done	Adrian Gabriel	3	0	0
*	7	AND	Documentation	20	Incomplete	AND Team	15	10	5
27	8	AND	Implement View	3	Done	Stefania	1	0	0
27	9	AND	Implement ViewModel	3	Done	Stefania	1	0	0
27	10	AND	Implement Model	2	Done	Stefania	1	0	0
27	11	AND	BlackBox Testing	0.5	Done	Vlad	0.5	0.5	0
28	12	AND	Implement View	3	Done	Georgiana	1	1	0
28	13	AND	Implement ViewModel	3	Done	Georgiana	1	1	0
28	14	AND	Implement Model	3	Done	Georgiana	1	1	0
28	15	AND	BlackBox Testing	0.5	Done	Vlad	0.5	0.5	0
29	16	AND	Implement View	3	Done	Georgiana	1	1	0
29	17	AND	Implement ViewModel	3	Done	Georgiana	1	1	0
29	18	AND	Implement Model	3	Done	Georgiana	1	1	0
29	19	AND	BlackBox Testing	0.5	Done	Vlad	0.5	0.5	0
30	20	AND	Implement View	2	Done	Vlad	0	0	0
30	21	AND	Implement ViewModel	2	Done	Vlad	0	0	0
30	22	AND	Implement Model	1	Done	Vlad	0	0	0
30	23	AND	BlackBox Testing		Done	George Eduard	0	0	0
32	24	AND	Implement View	3	Done	George Eduard	0	0	0
32	25	AND	Implement ViewModel	3	Done	George Eduard	0	0	0
32	26	AND	Implement Model	2	Done	George Eduard	0	0	0
32	27	AND	BlackBox Testing	0.5	Incomplete	Georgiana	0.5	0.5	0.5

53	28	AND	Implement Functionality	4	Done	Vlad	2	2	0
53	29	AND	BlackBox Testing	0.5	Done	George Eduard	0	0	0
44	30	AND	Implement View	4	Done	Tabita	0	0	0
44	31	AND	Implement ViewModel	3	Done	Tabita	3	0	0
44	32	AND	Implement Model	2	Done	Tabita	2	2	0
44	33	AND	BlackBox Testing	0.5	Done	Vlad	0.5	0.5	0
*	34	AND	Room implementation	20	Done	Stefania	15	7	0
*	35	AND	Bug fixes	4	Done	Stefania	4	4	0
*	36	DAI	Class diagram	5	Done	Tomas	4	0	0
*	37	DAI	Refactor class names and packages	4	Done	Tomas	0	0	0
*	38	DAI	Refactor etl process	7	Done	Luis	0	0	0
*	39	DAI	Data Warehouse Documentation	4	Done	Luis	4	4	0
*	40	DAI	Source Target Mappings	2	Done	DAI Team	0	0	0
*	41	DAI	Document etl incremental load	3	Done	Luis	3	3	0
*	42	DAI	Data Warehouse Testing	7	Done	Luis	7	0	0
*	43	DAI	Implementation Documentation	4	Done	Tomas	2	0	0
*	44	DAI	Test Documentation	3	Incomplete	Tomas	3	3	2
*	45	DAI	Remake visualisations matching new dimensions	4	Done	Agostina	2	2	0
19, 20, 21, 22	46	DAI	Refactor query	4	Done	Adriana	4	0	0
*	47	DAI	Document visualisations	4	Done	Agostina	2	2	0
*	48	DAI	General documentation	2	Done	Agostina	2	2	0
*	49	DAI	Load data into powerBI	0.5	Done	Agostina	0	0	0
53	50	DAI	Implement repository	2	Done	Adriana	2	0	0
53	51	DAI	Create endpoint	2	Done	Adriana	2	0	0

				206.5			114.5	68.25	7.5
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Table 5 - Sprint 5 Backlog

Sprint 6

Sprint 6 Backlog From 30/05 To 1/06									
Sprint 6 Tasks							Remaining hours		
User Story	Task ID	Team	Task Description	Hours	Status	Responsible	Day 1	Day 2	Day 3
*	1	*	User Guide	4	Done	George Eduard	4	2	0
*	2	*	Check use cases	3	Done	Vlad	3	0	0
*	3	*	Check black box testing	8	Done	Stefania	5	3	0
*	4	*	SOLID Principles diagrams	3	Done	Adriana	2	2	0
*	5	*	Check Activity Diagrams	3	Done	Morten	3	0	0
*	6	*	Refactor Domain Model	2	Done	Morten	2	0	0
*	7	*	Set up appendices	2	Done	Morten	2	0	0
*	8	*	Sequence diagram	1	Done	Stefania	1	1	0
*	9	IoT	Documentation	60	Done	IoT Team	30	10	0
54	10	AND	Implement View	2	Done	Vlad	2	0	0
54	11	AND	Implement Functionality	2	Done	Vlad	2	0	0
55	12	AND	Implement View	2	Done	Vlad	2	2	0
55	13	AND	Implement Functionality	3	Done	Stefania	3	3	0
*	14	AND	Documentation	50	Done	AND Team	30	10	0
*	15	AND	Dao Design Pattern diagram	1	Done	Stefania	0	0	0

*	16	AND	Factory Design Pattern diagram	1	Done	Stefania	0	0	0
*	17	AND	ER diagram for models	2	Done	Stefania	0	0	0
*	18	AND	Implement progress bars	3	Done	Tabita	0	0	0
*	19	AND	Singleton Design Pattern Diagram	1	Done	Vlad	0	0	0
*	20	AND	Repository Design Pattern Diagram	1	Done	Vlad	1	0	0
*	21	AND	Observer Design Pattern Diagram	1	Done	Vlad	1	0	0
*	22	AND	MVVM Design Pattern Diagram	1	Done	Vlad	1	0	0
32	23	AND	Refactor user story	2	Done	Stefania	0	0	0
44	24	AND	Refactor	2	Done	Tabita	2	0	0
*	25	AND	Refactor Tests	4	Done	George Eduard	2	2	0
*	26	AND	Class Diagrams	4	Done	Georgiana	4	2	0
*	27	AND	Java Doc	4	Done	Stefania	4	4	0
32	28	AND	BlackBox testing	0.5	Done	Stefania	0	0	0
*	29	AND	Refactor bugs	7	Done	Vlad	0	0	0
*	30	AND	Refactor bugs	8	Done	Stefania	3	0	0
*	31	AND	Refactor Unit tests	3	Done	Stefania	3	0	0
*	32	AND	Sequence Diagrams	3	Done	Stefania	3	3	0
32	33	DAI	Refactor user story	2	Done	Tomas	0	0	0
43	34	DAI	Refactor repository	2	Done	Tomas	0	0	0
*	35	DAI	Documentation	40	Done	DAI Team	20	10	0
*	36	DAI	Unit Test Documentation	3	Done	Tomas	0	0	0
*	37	DAI	Review Documentation	2	Done	DAI Team	0	0	0
*	38	DAI	Refactor Test Tables for areas	4	Done	Adriana	0	0	0
*	39	DAI	Refactor Test Tables for thresholds	4	Done	Agostina	0	0	0

*	40	DAI	Document Type 2 changes	2	Done	Luis	0	0	0
*	41	DAI	Data Warehouse appendix	3	Done	Luis	3	0	0
*	42	DAI	Refactor test tables for measurements	5	Done	Adriana	0	0	0
*	43	DAI	Refactor test tables for barns	1	Done	Agostina	1	0	0
*	44	DAI	Include references to appendix in DW documentation	2	Done	Luis	2	2	0
*	45	DAI	Data Warehouse implementation documentation	4	Done	Luis	0	0	0
*	46	DAI	Include transformations for measurements in etl	2	Done	Luis	0	0	0
*	47	DAI	Refactor validations	4	Done	Adriana	1	0	0
*	48	DAI	Document DW transformations	2	Done	Luis	2	0	0
*	49	DAI	Edit Class Diagram	2	Done	Tomas	2	0	0
*	50	DAI	Review Reports	8	Done	DAI Team	3	3	0
				282.5			145	57	0

Table 6 - Sprint 6 Backlog