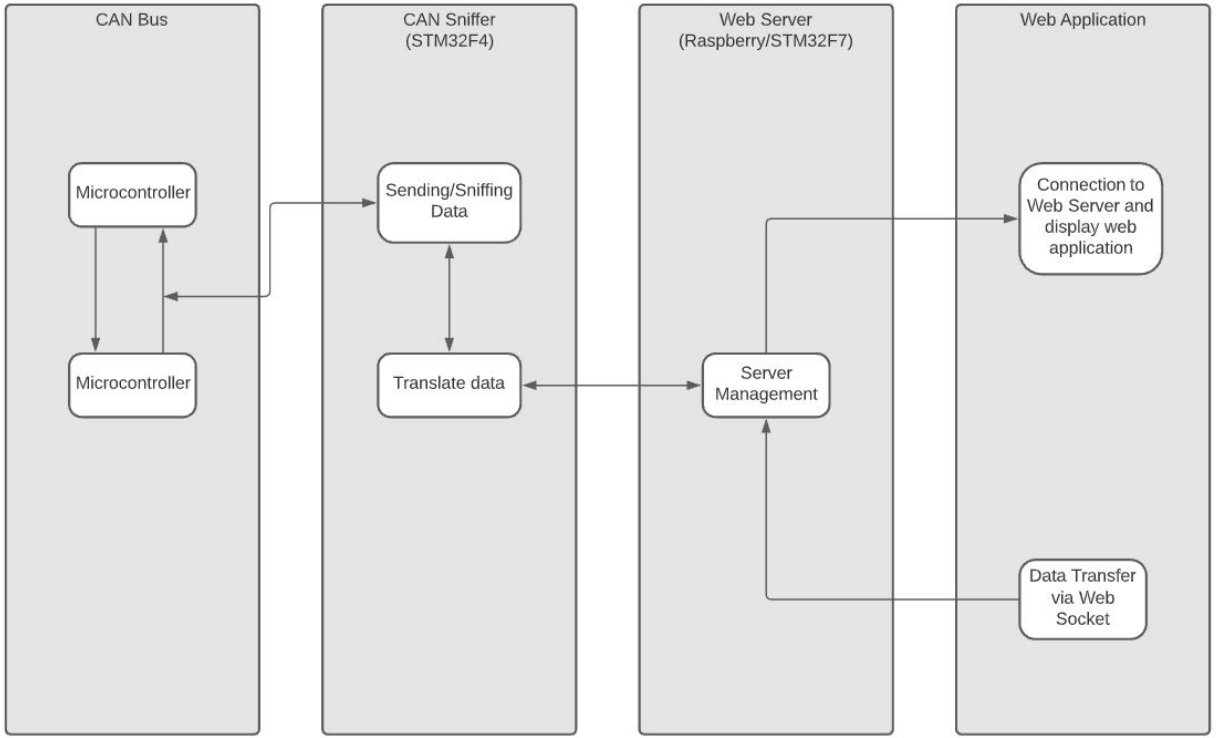
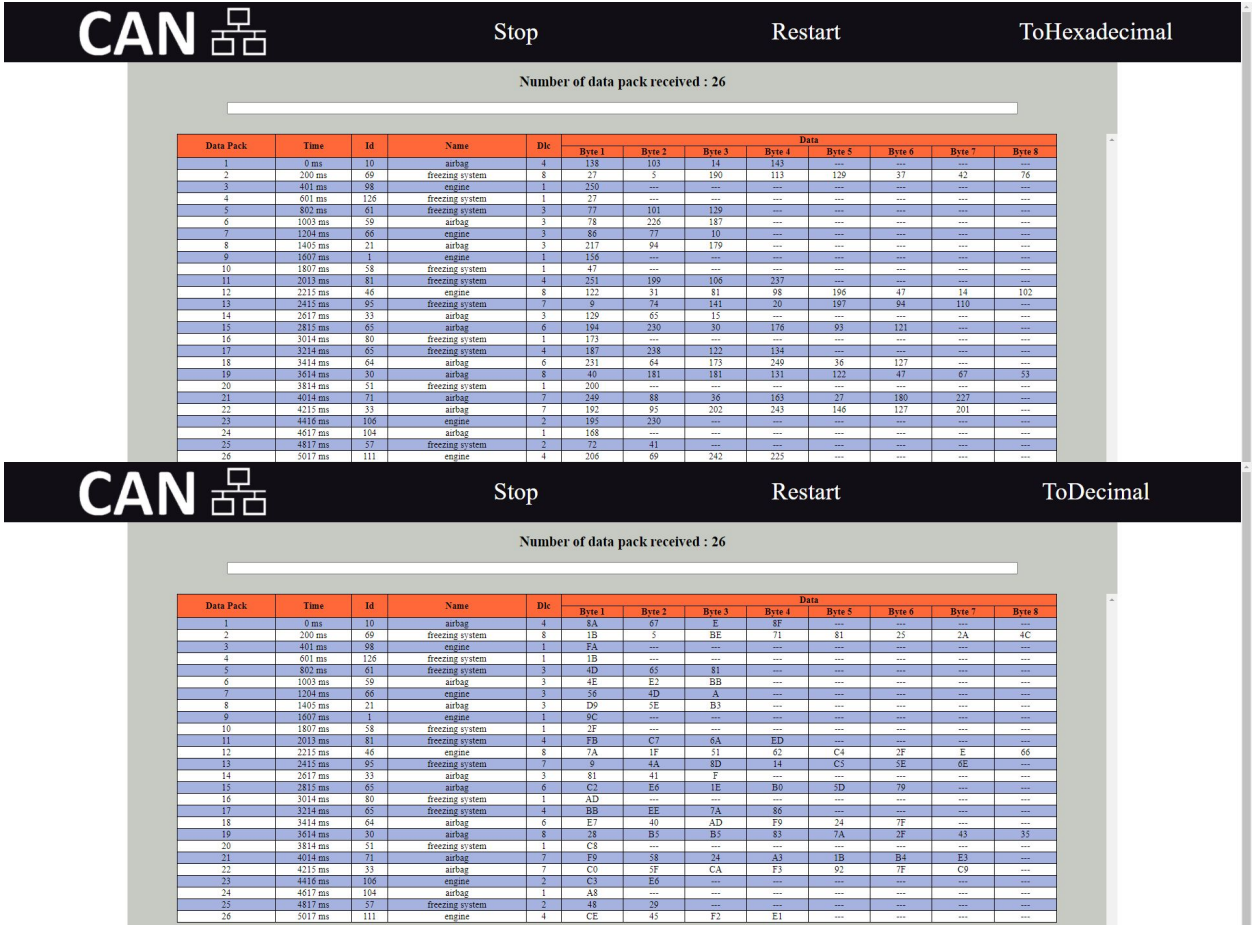
Project 5: Embedded equipment web service communicating on CAN bus

Workflow Diagram:



Raspberry: (https://gricad-gitlab.univ-grenoble-alpes.fr/Projets-INFO4/20-21/05/raspberry)



Data Pack	Time	Id	Name	Dlc	Data							
					Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
1	0 ms	10	airbag	4	138	103	14	143	---	---	---	---
2	200 ms	69	freezing system	8	27	5	190	113	129	37	42	76
3	401 ms	98	engine	1	250	---	---	---	---	---	---	---
4	601 ms	126	freezing system	1	27	---	---	---	---	---	---	---
5	802 ms	61	freezing system	3	77	101	129	---	---	---	---	---
6	1003 ms	59	airbag	3	78	226	187	---	---	---	---	---
7	1204 ms	66	engine	3	86	77	10	---	---	---	---	---
8	1405 ms	21	airbag	3	217	94	179	---	---	---	---	---
9	1607 ms	1	engine	1	156	---	---	---	---	---	---	---
10	1807 ms	58	freezing system	1	47	---	---	---	---	---	---	---
11	2013 ms	81	freezing system	4	251	199	106	237	---	---	---	---
12	2215 ms	46	engine	8	122	31	81	98	196	47	14	102
13	2415 ms	95	freezing system	7	9	74	141	20	197	94	110	---
14	2617 ms	33	airbag	3	129	65	15	---	---	---	---	---
15	2815 ms	65	airbag	6	194	230	30	176	93	121	---	---
16	3014 ms	80	freezing system	1	173	---	---	---	---	---	---	---
17	3214 ms	65	freezing system	4	187	238	122	134	---	---	---	---
18	3414 ms	64	airbag	6	231	64	173	249	36	127	---	---
19	3614 ms	30	airbag	8	40	181	181	131	122	47	67	53
20	3814 ms	51	freezing system	1	200	---	---	---	---	---	---	---
21	4014 ms	71	airbag	7	249	88	36	163	27	180	227	---
22	4215 ms	33	airbag	7	192	95	202	243	146	127	201	---
23	4416 ms	106	engine	2	195	230	---	---	---	---	---	---
24	4617 ms	104	airbag	1	168	---	---	---	---	---	---	---
25	4817 ms	57	freezing system	2	72	41	---	---	---	---	---	---
26	5017 ms	111	engine	4	206	69	242	225	---	---	---	---

Data Pack	Time	Id	Name	Dlc	Data							
					Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
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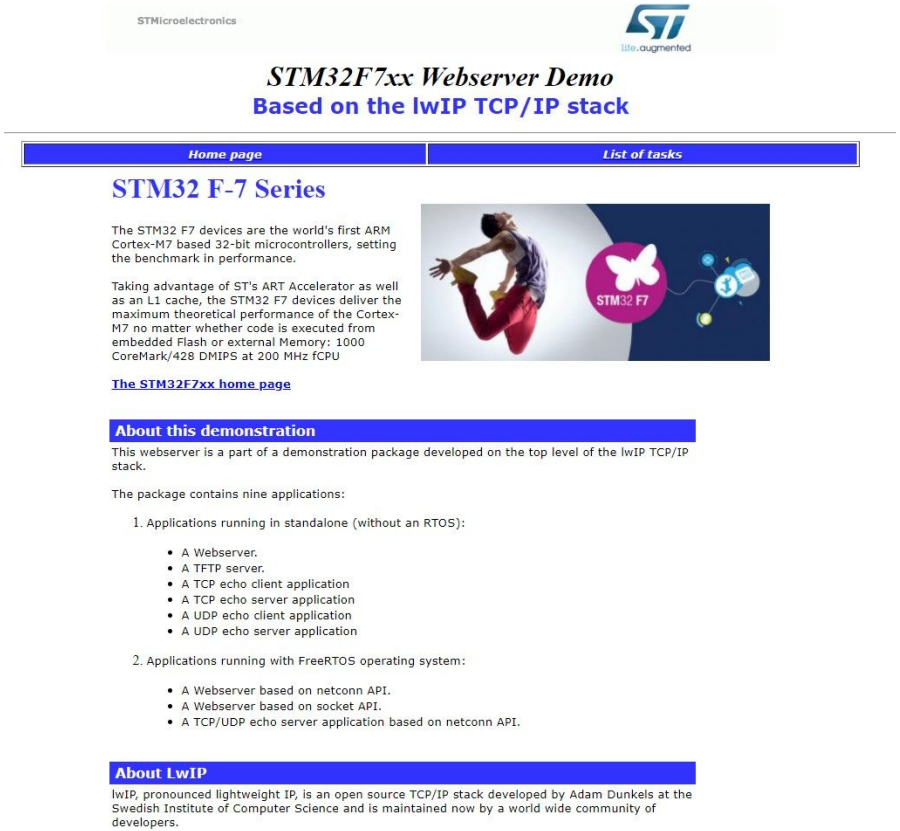
3	401 ms	98	engine	1	FA	---	---	---	---	---	---	---
4	601 ms	126	freezing system	1	1B	---	---	---	---	---	---	---
5	802 ms	61	freezing system	3	4D	65	81	---	---	---	---	---
6	1003 ms	59	airbag	3	4E	E2	BB	---	---	---	---	---
7	1204 ms	66	engine	3	56	4D	A	---	---	---	---	---
8	1405 ms	21	airbag	3	D9	5E	B3	---	---	---	---	---
9	1607 ms	1	engine	1	9C	---	---	---	---	---	---	---
10	1807 ms	58	freezing system	1	2F	---	---	---	---	---	---	---
11	2013 ms	81	freezing system	4	FB	C7	6A	ED	---	---	---	---
12	2215 ms	46	engine	8	7A	1F	51	62	C4	2F	E	66
13	2415 ms	95	freezing system	7	9	4A	8D	14	C5	5E	6E	---
14	2617 ms	33	airbag	3	81	41	F	---	---	---	---	---
15	2815 ms	65	airbag	6	C2	E6	1E	B0	5D	79	---	---
16	3014 ms	80	freezing system	1	AD	---	---	---	---	---	---	---
17	3214 ms	65	freezing system	4	BB	EE	7A	86	---	---	---	---
18	3414 ms	64	airbag	6	E7	40	AD	F9	24	7F	---	---
19	3614 ms	30	airbag	8	28	B5	B5	83	7A	2F	43	35
20	3814 ms	51	freezing system	1	C8	---	---	---	---	---	---	---
21	4014 ms	71	airbag	7	F9	58	24	A3	1B	B4	E3	---
22	4215 ms	33	airbag	7	C0	5F	CA	F3	92	7F	C9	---
23	4416 ms	106	engine	2	C3	E6	---	---	---	---	---	---
24	4617 ms	104	airbag	1	A8	---	---	---	---	---	---	---
25	4817 ms	57	freezing system	2	48	29	---	---	---	---	---	---
26	5017 ms	111	engine	4	CE	45	F2	E1	---	---	---	---

WIP:

- UI implementation to allow the web application to send data to the web server
- (IESE) Communication between the CAN sniffer and the server to send/receive data

STM32: (https://gricad-gitlab.univ-grenoble-alpes.fr/Projets-INFO4/20-21/05/STM32_BerkeleySocketsServer)



WIP :

- Adding 2 libraries on STM32 boards allowing the use of websockets (Minnow and Mongoose)
- (IESE) Communication between the CAN sniffer and the server to send/receive data