

User input pilot information

- Tag id
- Name
- Team
- Email

- Pay confirmation

See the example of the possible DB look

RFID Chrono Timing System V1.0

Reader Setup Race management Serial Port Monitor

Race Pilot Management

Pilot Registration

TAG ID

Name

Team

E-Mail

Confirmation ☒

ADD PILOT

Pilot List

#	Name	Nickname	Team	TAG ID -EPC	Email	Confirmation
1	bill tower	ba	full	00 00 00 00 00 00 00 00 00 00 01	ipsol@ec.com	Yes
2	tanner soon	bg	drunk	00 00 00 00 00 00 00 00 00 00 02	ddsdsi@hr.com	Yes
3	soon tanner	bh	zz	00 00 00 00 00 00 00 00 00 00 03	wwwrwww.com	Yes
4	lee pu	bk	top	00 00 00 00 00 00 00 00 00 00 04	lllll@llc.com	No
5	fox	dr	goes	00 00 00 00 00 00 00 00 00 00 05	ipmmmm	No
6	husky	jt	ktm	00 00 00 00 00 00 00 00 00 00 06	ipsol@ec.com	Yes
7	samurai	bill	honda	00 00 00 00 00 00 00 00 00 00 07	ipsol@ec.com	Yes
8	john	car	yamaha	00 00 00 00 00 00 00 00 00 00 08	aaaol@ac.com	Yes
9	kill	bike	alfa	00 00 00 00 00 00 00 00 00 00 09	rrr@rc.com	No

Group Management

Number of Pilots per Group

ADD PILOTS TO GROUP

Group A Group B Group C Group D Group E Group F Group G Group H Group I Group J Group L Group M Group O Group P Group Q

#	Name	Nickname	Team	TAG ID -EPC	Email	Confirmation
1	bill tower	ba	full	00 00 00 00 00 00 00 00 00 00 01	ipsol@ec.com	Yes
2	tanner soon	bg	drunk	00 00 00 00 00 00 00 00 00 00 02	ddsdsi@hr.com	Yes
3	soon tanner	bh	zz	00 00 00 00 00 00 00 00 00 00 03	wwwrwww.com	Yes
4	lee pu	bk	top	00 00 00 00 00 00 00 00 00 00 04	lllll@llc.com	No

Stage Management

Number of Laps

Number of Qualifications Rounds

Number Finals

Number of pilot for each group, The value of the Number os pilots per group can go from 2 to 8

By clicling in the "ADD PILOT" it will add one entry in the DB

This will populate the group list

Number of laps to be used to do the average time, image if the pilot made 4 laps the last lap will not count or the lap is ignored by the system

Number of Qualification round to be created in "tab Race" - "Event Round" - "Round". For example if we input 4 the system will add Q1, Q2, Q3, Q4 to the drop menu in "tab Race" - "Event Round" - "Round"

Note: if to difficult to implement skip this and use a fixed value on the drop menu of Q1 to Q6 and S1 to S6

Number of Qualification round to be created in "tab Race" - "Event Round" - "Round". For example if we input 2 the system will add S1, S2, to the drop menu in "tab Race" - "Event Round" - "Round"

Note: if to difficult to implement skip this and use a fixed value on the drop menu of Q1 to Q6 and S1 to S6

Tab with 15 groups pre defined from Group A to Group Q the group will be populated by using the value on "Number of Pilots per Groups" we will take the "Pilot List" and fill all the groups.

This grup will be selected in "tab Race" - "Event Round" - "Groups"

This will serve to attach the pilots to the group and stages, we can choose the stage that we want to race in the Tab Race -> Event Round -> Round and Group, I think this is a simple way to organize the DB. Also add a option to save the DB and clear all the values if need, IF possible an export option to pdf or xls (but can be implemented later)

Possible DB LAYOUT

NUMBER	NAME	NICKNAME	TEAM	EMAIL	CONFIRMATION	TAG ID	PC	ID COUNT	RSSI	Freq.	TRIGGER	LAP2	LAP3	LAP4	LAP5	LAP6	BEST_LPA	AVERAGE
1	Bill Tanner	BT	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 01												
2	Kate Will	KN	X1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 02												
3	John L.	JL	x1	jl@jil.com	no	00 00 00 00 00 00 00 00 00 00 03												
4	Joel A.	JA	c2	ja@ja.com	yes	00 00 00 00 00 00 00 00 00 00 04												
5	Bill Tanner	BT	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 05												
6	Kate Will	KN	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 06												
7	John L.	JL	x1	jl@jil.com	no	00 00 00 00 00 00 00 00 00 00 07												
8	Joel A.	JA	c3	ja@ja.com	yes	00 00 00 00 00 00 00 00 00 00 08												
9	Bill Tanner	BT	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 09												
10	Kate Will	KN	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 10												
11	John L.	JL	x1	jl@jil.com	no	00 00 00 00 00 00 00 00 00 00 11												
12	Joel A.	JA	c4	ja@ja.com	yes	00 00 00 00 00 00 00 00 00 00 12												
13	Bill Tanner	BT	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 13												
14	Kate Will	KN	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 14												
15	John L.	JL	x1	jl@jil.com	no	00 00 00 00 00 00 00 00 00 00 15												
16	Joel A.	JA	c5	ja@ja.com	yes	00 00 00 00 00 00 00 00 00 00 16												
17	Bill Tanner	BT	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 17												

Entry number
in the DB

Data input from the user in
“pilot registration”

Data received from the
RFID reader

Calculated by the app

Important: as you understand the DB must be divided in groups and rounds, when we press stop, the result will be saved in the DB using the correspond “Group” an “Round”

The flow of the race is: Qualification rounds, we are going to call then Q1, Q2, Q3 -> Q6 (6 will be the max.)

Each qualification round will take all the groups, for example in Q1 we will have to run all the Group that we called GA,GB,BD,...GQ (15 will be the max.)

After the qualification round we will have the 1/8 – 1/4 and Small final and Final, we call them S1-S2-S3-S4-S5-S6

As we are going to manual select the Qualification round and Groups, it probably best to fix this option and have for Groups a drop box from Group A to Group Q (15 groups) and for rounds Q1 to Q6 and S1 to S6

So we can keep a record on the dB
for all the races

Populated DB with data from the reader

NUMBER	NAME	NICKNAME	TEAM	EMAIL	CONFIRMATION	TAG ID	PC	ID COUNT	RSSI	Freq.	TRIGGER	LAP2	LAP3	LAP4	LAP5	LAP6	BEST_LPA	AVERAGE
1	Bill Tanner	BT	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 00 01	3040	23	50dbm	866 mhz	0:00:00	0:28:33	0:28:33				0:28:33	0:28:33
2	Kate Will	KN	X1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 00 02	3040	23	50dbm	867 mhz	0:00:00	0:10:04	0:10:04				0:28:33	0:28:33
3	John L.	JL	x1	jl@jil.com	no	00 00 00 00 00 00 00 00 00 00 00 03	3040	23	50dbm	868 mhz	0:00:00	0:23:33	0:23:33				0:28:33	0:28:33
4	Joel A.	JA	c2	ja@ja.com	yes	00 00 00 00 00 00 00 00 00 00 00 04	3040	23	50dbm	869 mhz	0:00:00						0:28:33	0:28:33
5	Bill Tanner	BT	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 00 05	3040	23	50dbm	870 mhz	0:00:00	0:38:33	0:38:33				0:28:33	0:28:33
6	Kate Will	KN	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 00 06	3040	23	50dbm	871 mhz	0:00:00	0:31:33	0:31:33				0:28:33	0:28:33
7	John L.	JL	x1	jl@jil.com	no	00 00 00 00 00 00 00 00 00 00 00 07	3040	23	50dbm	872 mhz	0:00:00	0:20:14	0:20:14				0:28:33	0:28:33
8	Joel A.	JA	c3	ja@ja.com	yes	00 00 00 00 00 00 00 00 00 00 00 08	3040	23	50dbm	873 mhz	0:00:00	0:22:33	0:22:33				0:28:33	0:28:33
9	Bill Tanner	BT	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 00 09	3040	23	50dbm	874 mhz	0:00:00						0:28:33	0:28:33
10	Kate Will	KN	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 00 10	3040	23	50dbm	875 mhz	0:00:00	0:21:31	0:21:31				0:28:33	0:28:33
11	John L.	JL	x1	jl@jil.com	no	00 00 00 00 00 00 00 00 00 00 00 11	3040	23	50dbm	876 mhz	0:00:00	0:23:34	0:23:34				0:28:33	0:28:33
12	Joel A.	JA	c4	ja@ja.com	yes	00 00 00 00 00 00 00 00 00 00 00 12	3040	23	50dbm	877 mhz	0:00:00	0:18:13	0:18:13				0:28:33	0:28:33
13	Bill Tanner	BT	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 00 13	3040	23	50dbm	878 mhz	0:00:00	0:13:31					0:28:33	0:28:33
14	Kate Will	KN	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 00 14	3040	23	50dbm	879 mhz	0:00:00	0:26:26	0:26:26				0:28:33	0:28:33
15	John L.	JL	x1	jl@jil.com	no	00 00 00 00 00 00 00 00 00 00 00 15	3040	23	50dbm	880 mhz	0:00:00	0:22:57	0:22:57				0:28:33	0:28:33
16	Joel A.	JA	c5	ja@ja.com	yes	00 00 00 00 00 00 00 00 00 00 00 16	3040	23	50dbm	881 mhz	0:00:00	0:19:30	0:19:30				0:28:33	0:28:33
17	Bill Tanner	BT	x1	bt@ct.com	yes	00 00 00 00 00 00 00 00 00 00 00 17	3040	23	50dbm	882 mhz	0:00:00	0:21:32					0:28:33	0:28:33

Data Field from the first pass, it will set the timer to zero and start counting

Data Field to receive time from the 2nd pass, it will add time since the 1st pass to the 2nd pass, giving the LAP 1 time

Data Field to receive time from the 3rd pass, it will add time since the 2st pass to the 3rd pass, giving LAP2 time

In this field is for the best LAP

In this field is for Average time of all

Data received from the RFID reader

Calculated by the app

Same Information, when we select the option on the drop menu it show the same information in the text box

Display the ranking of the race by choosing "Best Lap Times " or "Average Time"

RFID Chrono Timing System v1.0

Reader Setup Race management Serial Port Monitor

Race Pilot Management

Antenna Selection
☒ Ant1 ☐ Ant2 ☐ Ant3 ☐ Ant4
 Min RSSI: Max RSSI:

Event Round
☐ User Define Session Round Group

Export Data
 Export to Excel

Race Control
 START STOP
 RESET

Race Time
 00 : 00 : 000
minutes seconds milliseconds

Race Properties
 Minimum Lap Time (sec): 5
 Event Name:
 Location: Date: 31/08/2018

Current event
 Q2 GROUP D

Just to reinforcement the running round, this is just text box that grab the selection made on Event Round, Round an Group

#	Name	TAG ID-EPC	PC	ID Count	RSSI	Freq.	LAP1	LAP2	LAP3	LAP4	LAP5	LAP6	Best Lap	Average
1	bill tower	00 00 00 00 00 00 00 00 00 00 01	3040	10	60 dbm	866 mhz	0:20:21	0:20:21	0:20:21	0:20:21			0:20:21	0:20:21
2	tanner soon	00 00 00 00 00 00 00 00 00 00 02	3040	10	60 dbm	866 mhz	0:20:21	0:20:21	0:20:21	0:20:21			0:20:21	0:20:21
3	soon tanner	00 00 00 00 00 00 00 00 00 00 03	3040	10	60 dbm	866 mhz	0:20:21	0:20:21	0:20:21	0:20:21			0:20:21	0:20:21
4	lee pu	00 00 00 00 00 00 00 00 00 00 04	3040	10	60 dbm	866 mhz	0:20:21	0:20:21	0:20:21	0:20:21			0:20:21	0:20:21

Pilots time and info display here, from this case from round Q2 – Group D

Race Ranking
 Display Ranking by:

Rank	Name	Best Lap
1	bill tower	0:20:21
2	tanner soon	0:22:21
3	soon tanner	0:26:18
4	lee pu	0:30:21
5	fox	0:35:02
6	husky	1:35:02
7	samurai	2:35:02
8	john	3:35:02
9	kill	4:35:02
10	bill tower	5:35:02
11	tanner soon	6:35:02
12	soon tanner	7:35:02
13	lee pu	8:35:02
14	fox	9:35:02
15	husky	10:35:02
16	samurai	11:35:02
17	john	12:35:02
18	kill	13:35:02

Nickname	Team	TAG ID -EPC	Email	Confirmation
ba	full	00 00 00 00 00 00 00 00 01	ipsel@ec.com	Yes
bg	drunk	00 00 00 00 00 00 00 00 02	ddrdsi@hr.com	Yes
bh	zz	00 00 00 00 00 00 00 00 03	swarner@new.com	Yes
bk	top	00 00 00 00 00 00 00 00 04	lilli@tic.com	No

Number of laps to be used to do the average time, image if the pilot made 4 laps the last lap will not count or the lap is ignored by the system

Number of Qualification round to be created in "tab Race" – "Event Round" – "Round". For example if we input 4 the system will add Q1, Q2, Q3, Q4 to the "tab Race" – "Event Round"

Tab with 15 groups pre defined from Group A to Group Q the group will be populated by using the value on "Number of Pilots per Groups" we will take the "Pilot List" and fill all the groups.

This group will be selected in "tab Race" – "Event Round" – "Groups"

Will it be always 15 groups? It could be an option parameter and tabs will be generated automatically with necessary amount.

Yes, the max groups will be 15

RESET

Current event: Q2 GROUP D

Just to reinforcement the running round, this is just text box that grab the selection made on Event Round, Round an Group

So, as I understood, there'll be 2 text boxes, in which the current event info will appear, yes? E.G. Initial state: Q1, GroupA. We press START, event is going on... then we press STOP, results are saved. Then RESET -> text boxes are: Q1, GroupB, and pilots list of Group B. After all groups there'll be: Q2, GroupA, etc... until the end.

Count	RSSI	Freq.	LAP1	LAP2	LAP3	LAP4	LAP5	LAP6	Best Lap	Average
10	60 dbm	866 mhz	0:20:21	0:20:21	0:20:21	0:20:21			0:20:21	0:20:21
10	60 dbm	866 mhz	0:20:21	0:20:21	0:20:21	0:20:21			0:20:21	0:20:21
10	60 dbm	866 mhz	0:20:21	0:20:21	0:20:21	0:20:21			0:20:21	0:20:21
10	60 dbm	866 mhz	0:20:21	0:20:21	0:20:21	0:20:21			0:20:21	0:20:21

Pilots time and info display here

Yes, this if the idea, please see this explanation

Important: as you understand the DB must be divided in groups and rounds, when we press stop, the result will be saved in the DB using the correspond "Group" an "Round"

The flow of the race is: Qualification rounds, we are going to call then Q1, Q2, Q3 -> Q6 (6 will be the max.)

Each qualification round will take all the groups, for example in Q1 we will have to run all the Group that we called GA,GB,BD,...GQ (15 will be the max.)

After the qualification round we will have the 1/8 – 1/4 and Small final and Final, we call them S1-S2-S3-S4-S5-S6

As we are going to manual select the Qualification round and Groups, it probably best to fix this option and have for Groups a drop box from Group A to Group Q (15 groups) and for rounds Q1 to Q6 and S1 to S6

RFID Chrono Timing System v1.0

Reader Setup Race management Serial Port Monitor

Race Pilot Management

Pilot Registration

TAG ID

Name

Team

E-Mail

Confirmation ☒

ADD PILOT

Number of pilot for each group, The value of the Number of pilots per group can go from 2 to 8

Group Management

Number of Pilots per Group

ADD PILOTS TO GROUP

Pilot List

#	Name	Nickname	Team	TAG ID - EPC	Email
1	bill tower	ba	full	00 00 00 00 00 00 00 00 00 00 01	ipsol@ec.com
2	tanner soon	bg	drunk	00 00 00 00 00 00 00 00 00 00 02	ddsdsl@hr.com
3	soon tanner	bh	zz	00 00 00 00 00 00 00 00 00 00 03	wwwr@www.com
4	lee pu	bk	top	00 00 00 00 00 00 00 00 00 00 04	lllll@llc.com
5	fox	dr	goes	00 00 00 00 00 00 00 00 00 00 05	ipmmmm
6	husky	jt	ktrn	00 00 00 00 00 00 00 00 00 00 06	ipsol@ec.com
7	samurai	bill	honda	00 00 00 00 00 00 00 00 00 00 07	ipsol@ec.com
8	john	car	yamaha	00 00 00 00 00 00 00 00 00 00 08	aaaol@ac.com
9	kill	bike	alfa	00 00 00 00 00 00 00 00 00 00 09	rrr@rc.com

Group A Group B Group C Group D Group E Group F Group G Group H Group I Group J Group L Group M Group O Group P Group

#	Name	Nickname	Team	TAG ID - EPC	Email	Confirmation
1	bill tower	ba	full	00 00 00 00 00 00 00 00 00 00 01	ipsol@ec.com	Yes
2	tanner soon	bg	drunk	00 00 00 00 00 00 00 00 00 00 02	ddsdsl@hr.com	Yes
3	soon tanner	bh	zz	00 00 00 00 00 00 00 00 00 00 03	wwwr@www.com	Yes
4	lee pu	bk	top	00 00 00 00 00 00 00 00 00 00 04	lllll@llc.com	No

In here we are going to input all the pilot info:
-Tag id
-Name
-Team
-Email
-Pay conformation

There could be 2 grid views. First grid is the list of pilots from database. The second one is editable grid, where we can add new pilots, edit and delete them. Also we can move a pilot from the 1st grid to 2nd. Second grid will be used for group list population. After the race, we can synchronize db pilots table.

Number of pilot for each group, The value of the Number of pilots per group can go from 2 to 8

This will populate the pilot list

This will populate the group list

That can be one option if it simple to implement for you