0:0:0.0 --> 0:0:30.990  
Asif M A (FCES)  
Hello everyone and welcome back to these details, the 7th of November 2022 in this meeting and according to the agenda, we have a few things to discuss. So by now we should have completed all the schematics required using easy ADA, the circuit diagrams, the block diagrams, the flow chart and the 3D diagrams. So what we're going to do is for each task we're gonna present each task, see if it's been completed and if it's already been completed, we can mark it off on the Gantt chart.

0:0:31.170 --> 0:0:43.840  
Asif M A (FCES)  
If not, we're gonna have to delete that task and provide a new deadline for it. So for recording purposes, it hums. I'll be in charge of all recordings and will be in charge of making sure each recording is in each file.

0:0:44.680 --> 0:0:50.70  
Asif M A (FCES)  
So after discussing the, I think the first thing we should discuss is the schematic. So.

0:0:53.940 --> 0:0:55.30  
Afzal H (FCES)  
But I.

0:0:51.590 --> 0:0:55.500  
Asif M A (FCES)  
I just need the schema click on this page please so Hamza can you present it.

0:1:0.610 --> 0:1:2.440  
Afzal H (FCES)  
I hope you guys can see this schematic.

0:1:2.400 --> 0:1:17.700  
Asif M A (FCES)  
Yeah. So this is the schema export our whole project. This was created in easy ADA with the help of Alex. So Alex, if you want you can just describe each schematic that was created from the Arduino all the way to the solenoid. No block.

0:1:20.210 --> 0:1:21.200  
Ainsworth A (FCES)  
Yeah. So.

0:1:21.960 --> 0:1:24.430  
Ainsworth A (FCES)  
On the left we have, you know, doing a nano.

0:1:25.380 --> 0:1:27.110  
Ainsworth A (FCES)  
Schematic which is.

0:1:28.90 --> 0:1:31.970  
Ainsworth A (FCES)  
Connected to all the different components on each pin.

0:1:33.960 --> 0:1:35.90  
Ainsworth A (FCES)  
And then.

0:1:36.70 --> 0:1:38.360  
Ainsworth A (FCES)  
Going across, we have.

0:1:39.690 --> 0:1:41.420  
Ainsworth A (FCES)  
Yeah, Lego signals for.

0:1:43.760 --> 0:1:51.100  
Ainsworth A (FCES)  
The locks stays in in poor like indication like you know when some when it's locked and when it's unlocked.

0:1:52.920 --> 0:1:53.690  
Ainsworth A (FCES)  
Umm.

0:1:54.860 --> 0:1:56.540  
Ainsworth A (FCES)  
And then we have the relay.

0:1:58.160 --> 0:2:0.10  
Ainsworth A (FCES)  
Uh, fingerprint scanner.

0:2:1.600 --> 0:2:2.130  
Ainsworth A (FCES)  
And.

0:2:4.300 --> 0:2:6.120  
Ainsworth A (FCES)  
And then we got the voltage in.

0:2:10.540 --> 0:2:12.630  
Ainsworth A (FCES)  
Then yeah, that's the schematic stuff.

0:2:14.100 --> 0:2:29.200  
Asif M A (FCES)  
So you've described, so you've done each and every schematic of each every part of the component of all these schema FCES. Any of these comma incomplete? Because when I'm looking I'm they all seem complete to me. So is there any issues you are with your schematics or is this ready to go now?

0:2:30.940 --> 0:2:32.630  
Ainsworth A (FCES)  
Umm it?

0:2:32.740 --> 0:2:35.110  
Ainsworth A (FCES)  
Should be ready to go.

0:2:35.800 --> 0:2:39.990  
Asif M A (FCES)  
Have they been? Did you simulate these commands on and they will work properly.

0:2:45.670 --> 0:2:48.450  
Afzal H (FCES)  
Yeah, did it. I was with Alex yesterday.

0:2:47.760 --> 0:2:55.340  
Asif M A (FCES)  
You tested it? That's fine. OK, then write, then. The next one is the circuit diagrams. So I just need to.

0:2:53.840 --> 0:2:55.590  
Afzal H (FCES)  
Yeah, I'll pull up that as well.

0:2:56.60 --> 0:2:56.700  
Asif M A (FCES)  
Last one.

0:2:57.660 --> 0:2:57.990  
Ainsworth A (FCES)  
Hello.

0:2:57.970 --> 0:2:58.710  
Afzal H (FCES)  
Is not there.

0:3:0.530 --> 0:3:0.870  
Afzal H (FCES)  
Ohh.

0:3:0.200 --> 0:3:1.110  
Asif M A (FCES)  
UM.

0:3:4.450 --> 0:3:7.180  
Ainsworth A (FCES)  
Yeah. No, I think I want your phone.

0:3:1.870 --> 0:3:7.310  
Asif M A (FCES)  
It's just a bit there we go. So you've done the diagrams for the circuit.

0:3:8.840 --> 0:3:9.530  
Asif M A (FCES)  
That's fine.

0:3:13.220 --> 0:3:16.140  
Asif M A (FCES)  
One second, my screens just crashed for a second.

0:3:16.890 --> 0:3:20.340  
Afzal H (FCES)  
That's fine. So Alex will go ahead with this probably.

0:3:25.760 --> 0:3:31.360  
Ainsworth A (FCES)  
Yeah. So it is like the block diagram of been wow of the system and instead of.

0:3:32.290 --> 0:3:33.270  
Ainsworth A (FCES)  
Like the schematic.

0:3:34.20 --> 0:3:35.730  
Ainsworth A (FCES)  
So it's just a simplified.

0:3:36.860 --> 0:3:37.800  
Ainsworth A (FCES)  
Schematic.

0:3:37.220 --> 0:3:37.840  
Afzal H (FCES)  
Yeah.

0:3:40.660 --> 0:3:41.820  
Ainsworth A (FCES)  
This just shows, yeah.

0:3:37.330 --> 0:3:42.30  
Asif M A (FCES)  
So it's basically showing how the diagram works, how the project actually works.

0:3:42.850 --> 0:3:45.320  
Ainsworth A (FCES)  
Just shows how the project and is connected.

0:3:47.190 --> 0:3:49.560  
Ainsworth A (FCES)  
You know what each part kind of does and.

0:3:49.440 --> 0:4:1.890  
Asif M A (FCES)  
So that DS and the fingerprint sensor all connected via the Arduino Nano and the power source connects the relay and the solenoid lock together and it's all intertwined. So at least that's good. One thing is complete.

0:4:1.520 --> 0:4:2.110  
Ainsworth A (FCES)  
Yeah.

0:4:2.910 --> 0:4:3.590  
Asif M A (FCES)  
So that's good.

0:4:3.380 --> 0:4:3.800  
Afzal H (FCES)  
Yep.

0:4:2.810 --> 0:4:6.750  
Ainsworth A (FCES)  
Well, this is, yeah, I mean they the only thing I would say is well.

0:4:7.990 --> 0:4:9.490  
Ainsworth A (FCES)  
The LED arrows.

0:4:10.480 --> 0:4:11.30  
Ainsworth A (FCES)  
Should be.

0:4:10.800 --> 0:4:11.100  
Asif M A (FCES)  
Hmm.

0:4:11.670 --> 0:4:13.940  
Ainsworth A (FCES)  
When, in the other way, because the other guys are outputs.

0:4:19.970 --> 0:4:20.320  
Ainsworth A (FCES)  
Yeah.

0:4:15.350 --> 0:4:22.190  
Asif M A (FCES)  
That's a good that's a good observer. We're gonna have to get that changed. But apart from that, there seems.

0:4:23.450 --> 0:4:28.720  
Asif M A (FCES)  
Perfectly fine for me. Is there anybody who has a problem with this medication?

0:4:29.730 --> 0:4:30.740  
Asif M A (FCES)  
This to me makes sense.

0:4:31.680 --> 0:4:32.190  
Asif M A (FCES)  
OK.

0:4:33.280 --> 0:4:34.630  
Asif M A (FCES)  
That's good. Good.

0:4:29.460 --> 0:4:35.390  
Afzal H (FCES)  
I guess it seems alright. It seems alright honestly. Yeah, even the schematic was fine as well.

0:4:36.770 --> 0:4:41.320  
Asif M A (FCES)  
Yeah, schematics since it was this. Yeah, the circuit diagrams as well that seems.

0:4:42.680 --> 0:4:46.980  
Asif M A (FCES)  
Perfectly fine for me. I think the next thing I wanna see is the flow chart.

0:4:47.990 --> 0:4:50.80  
Asif M A (FCES)  
So I just need to see the flow charts now.

0:4:50.840 --> 0:4:51.370  
Afzal H (FCES)  
Yeah.

0:4:53.870 --> 0:4:56.510  
Afzal H (FCES)  
It's probably Cameron, yeah.

0:4:59.920 --> 0:5:0.270  
Afzal H (FCES)  
Yeah.

0:4:54.150 --> 0:5:3.500  
Asif M A (FCES)  
So this was Cameron's job. So this is all based off the code I'm guessing. So I just need Cameron to describe to me what the flu chart shows.

0:5:4.860 --> 0:5:16.650  
Jones C (FCES)  
Basically, the flow chart just shows how the code will run, so it basically the code will start off in the state ready to read the fingerprint.

0:5:18.390 --> 0:5:23.660  
Jones C (FCES)  
It will then calculate if the fingerprint is scanned or not.

0:5:24.920 --> 0:5:37.360  
Jones C (FCES)  
And once it's calculated all that, it will then unlock the lock. If the fingerprint is the same as a stored fingerprint we've previously put in the memory.

0:5:39.580 --> 0:5:41.570  
Asif M A (FCES)  
So the code for this schema.

0:5:42.710 --> 0:5:46.540  
Asif M A (FCES)  
Have you completed or is this still in the making as of now?

0:5:49.550 --> 0:5:56.840  
Jones C (FCES)  
The code is started, it needs a little bit of work done to it but.

0:5:57.870 --> 0:5:58.890  
Jones C (FCES)  
Not much.

0:5:59.650 --> 0:6:0.910  
Jones C (FCES)  
Not much more is needed.

0:6:1.860 --> 0:6:5.460  
Asif M A (FCES)  
OK. So you're on track with the deadline pretty much with the gunshot.

0:6:5.930 --> 0:6:6.620  
Jones C (FCES)  
Uh, yes.

0:6:7.250 --> 0:6:8.480  
Asif M A (FCES)  
OK, that's perfectly fine.

0:6:9.640 --> 0:6:22.150  
Asif M A (FCES)  
If you're stuck with the code in or program in, please refer to Hamza TA Secretary. If I or Alex are there to give you a hand, we will, but for now I think you're doing a good job. The code seems like it's worked in the.

0:6:21.230 --> 0:6:25.640  
Afzal H (FCES)  
I guess we have another one as well I file shipping.

0:6:27.440 --> 0:6:28.760  
Asif M A (FCES)  
Umm. Let's see.

0:6:29.820 --> 0:6:34.790  
Asif M A (FCES)  
That looks exact. Ohh no, no, it's not so. Yeah. Alexandre spiked this as well.

0:6:32.430 --> 0:6:37.190  
Afzal H (FCES)  
Yeah, I said. This is the second one Cameron sent me just a few months ago.

0:6:38.240 --> 0:6:38.800  
Asif M A (FCES)  
OK.

0:6:38.250 --> 0:6:51.310  
Jones C (FCES)  
Yeah, basically this one is basically saying if the fingerprint does not match A stored fingerprint, it will go back to the state where it's ready to scan a fingerprint.

0:6:52.590 --> 0:6:53.470  
Asif M A (FCES)  
That's OK.

0:6:52.390 --> 0:6:56.280  
Jones C (FCES)  
And if it if it does match, it'll move on and unlock the lock.

0:6:57.590 --> 0:6:58.660  
Afzal H (FCES)  
Yeah, that's fine.

0:7:0.0 --> 0:7:0.370  
Afzal H (FCES)  
Yeah.

0:6:58.30 --> 0:7:5.270  
Asif M A (FCES)  
OK, that's good. OK. So you've actually have included, if it were, if the fingerprint were to be rejected, that's actually good.

0:7:6.790 --> 0:7:14.430  
Asif M A (FCES)  
OK, perfect. So the diagrams are the the flow charts looking good to me. I now need to see the 3D diagram. So that was up to Hamza.

0:7:15.290 --> 0:7:16.660  
Afzal H (FCES)  
Yeah, yeah.

0:7:15.590 --> 0:7:18.840  
Asif M A (FCES)  
So how much have you created the task? Ohh wow you actually have.

0:7:19.320 --> 0:7:34.150  
Afzal H (FCES)  
Yeah. So basically that's the best I could get out of fortius. So it's like very standard, especially with the with the DC Jack. It was a little bit of problem, but this.

0:7:33.450 --> 0:7:39.950  
Asif M A (FCES)  
All these were found off GitHub. No, sorry. What was the name of the website again where you found the components?

0:7:41.180 --> 0:7:42.550  
Asif M A (FCES)  
Yeah, that's it. That's it.

0:7:49.450 --> 0:7:50.140  
Asif M A (FCES)  
No problem.

0:7:39.430 --> 0:8:10.400  
Afzal H (FCES)  
Grab CAD, grab card most not like these were in the protests main library. I just got these, these and this off. I'll set it should be the same, but I guess we'll have the liberty to move the components over. Suiting to the URS as we discussed that it should be a little bit flexible. So whatever the the the the customer requires he can adjust it accordingly. So but The thing is like if we go on to the PC.

0:8:15.470 --> 0:8:15.880  
Asif M A (FCES)  
Yeah.

0:8:10.480 --> 0:8:20.330  
Afzal H (FCES)  
I'm making. We might have to change a little bit of things because you know, the tracks, so tracks and all that thing. So we might have to change, but I guess this should be good to go honestly.

0:8:27.340 --> 0:8:28.770  
Afzal H (FCES)  
Yeah. Because if you see.

0:8:21.110 --> 0:8:29.740  
Asif M A (FCES)  
So as long as this tracking works and actually connects perfectly, I don't think you'd be a problem if we had to change the position of the component.

0:8:34.580 --> 0:8:35.310  
Asif M A (FCES)  
Yeah.

0:8:29.950 --> 0:8:54.0  
Afzal H (FCES)  
Yeah. Yeah. So because like it's it's still a 2D view in it like I can't get a perfect 3D angle. So The thing is I had to rotate this fingerprint for you guys to like display like this is a fingerprint here where I got to move the solenoid here. But if I did then it will be blocked by the fingerprint. So I had to move it back a bit back. So it should have been.

0:8:53.110 --> 0:8:54.440  
Asif M A (FCES)  
No, it's perfectly fine.

0:8:54.890 --> 0:9:2.40  
Afzal H (FCES)  
Yeah. So it's just for display purposes. Otherwise it's all not should be here and the fingerprint should be here the other way because that's how.

0:9:3.920 --> 0:9:4.150  
Afzal H (FCES)  
Yeah.

0:9:9.800 --> 0:9:10.160  
Afzal H (FCES)  
Yeah.

0:9:1.250 --> 0:9:14.870  
Asif M A (FCES)  
So as long as you've justified, as long as you've justified that you've had to position the solar line lock in order for us to see the fingerprint scanner, it's perfectly fine. So we can readjust that before we send it off to Jamie. And when we get to the PCB.

0:9:13.120 --> 0:9:17.450  
Afzal H (FCES)  
Yeah, exactly we can. Yeah. Because. Yeah. Yeah, that's fine.

0:9:18.200 --> 0:9:30.510  
Asif M A (FCES)  
Perfect. I mean, I'm actually impressed. Everything was actually completed. We're just waiting on the program and so far we've we've reaching every deadline. We're actually working really well. So this is really good. So well done everyone.

0:9:31.250 --> 0:9:31.780  
Afzal H (FCES)  
Thank you.

0:9:32.330 --> 0:9:42.440  
Asif M A (FCES)  
Is there any issues everybody's having with the project or with admin work or anything? Or would be interim report that's coming up soon? There's anybody got any problems with that?

0:9:45.860 --> 0:9:46.430  
Ainsworth A (FCES)  
Not that I.

0:9:45.610 --> 0:9:48.890  
Afzal H (FCES)  
I asked you are on par with the interim report, honestly so.

0:9:49.740 --> 0:9:54.590  
Asif M A (FCES)  
That's good. OK, cause Dustin getting close to the interim report, so we gotta start.

0:9:59.630 --> 0:9:59.990  
Afzal H (FCES)  
Yeah.

0:10:0.50 --> 0:10:27.700  
Asif M A (FCES)  
Then off to the we've got the presentation as well. So we gotta make sure that everything's prepared and ready to go, because if any of these, especially the interim report, if they're not completed, then, well, we're in trouble then aren't we? But for the most part, I think it's looking well. I think the intern report this slowly coming together, so it should be completed by the deadline. So yeah, good job everyone. I don't think there's any questions anybody asked to ask, is there any questions?

0:10:29.460 --> 0:10:29.920  
Afzal H (FCES)  
No.

0:10:31.870 --> 0:10:33.40  
Asif M A (FCES)  
Alright, that's good.

0:10:31.510 --> 0:10:33.260  
Ainsworth A (FCES)  
If we make changes so.

0:10:34.610 --> 0:10:35.180  
Ainsworth A (FCES)  
The.

0:10:37.450 --> 0:10:44.700  
Ainsworth A (FCES)  
Like design then, does that mean we'll have to change the diagrams or just kind of generate new ones?

0:10:46.110 --> 0:10:46.580  
Asif M A (FCES)  
Umm.

0:10:47.930 --> 0:10:50.480  
Asif M A (FCES)  
Well, if we change the design of the PCB, are you saying?

0:10:51.320 --> 0:10:53.880  
Ainsworth A (FCES)  
Well, just anything that's already kind of.

0:10:55.20 --> 0:10:55.610  
Ainsworth A (FCES)  
They don't.

0:10:55.360 --> 0:11:4.630  
Asif M A (FCES)  
I think I think the I think the flow charts and that should be perfectly fine. To be honest. I don't think we need to change anything drastically. I think the only thing I'm worried about is.

0:11:5.430 --> 0:11:15.670  
Asif M A (FCES)  
Just the PCB to be honest, that's the only thing I would say we would need drastic change if we change their components. It depends on the URS as well because we need to hear what the client said and this.

0:11:16.880 --> 0:11:17.210  
Asif M A (FCES)  
Yeah.

0:11:13.920 --> 0:11:33.990  
Afzal H (FCES)  
I mean because in the US in the US, it was stated that should be flexible. So we gotta take like into consideration that it we make sure like it's flexible. But because of the tracks you can't make it like completely flexible. So we gotta like decide on the thing that where it should be positioned to. So yeah.

0:11:35.460 --> 0:11:44.770  
Asif M A (FCES)  
I think for the most part, we have time to think on where we need to direct each component. At least we didn't leave it to the last minute. So we have time so we can.

0:11:45.520 --> 0:11:45.870  
Asif M A (FCES)  
Yeah.

0:11:43.320 --> 0:11:48.90  
Afzal H (FCES)  
Yeah, exactly. Yeah. Because you still have time to for the entire team, so yeah.

0:11:49.180 --> 0:11:50.940  
Asif M A (FCES)  
Perfect because obviously.

0:11:51.680 --> 0:12:2.190  
Asif M A (FCES)  
We got to get the interim report and so everything's basically on path, so I'm very happy and I would say thank you for attending this meeting. I'll see you guys soon.

0:12:3.20 --> 0:12:12.410  
Asif M A (FCES)  
And from the week, if anything arises, just message me or Hamza and then we'll sort weather issues arising. So thank you for everyone for attending.

0:12:13.460 --> 0:12:17.880  
Afzal H (FCES)  
Yeah, thank you. I hope if Cameron can stop the recording.