0:0:0.0 --> 0:0:2.310  
Afzal H (FCES)  
Start your transcribing and is.

0:0:11.870 --> 0:0:12.660  
Asif M A (FCES)  
OK.

0:0:13.500 --> 0:0:13.820  
Asif M A (FCES)  
Ohh.

0:0:15.420 --> 0:0:15.990  
Asif M A (FCES)  
13.

0:0:17.580 --> 0:0:18.140  
Asif M A (FCES)  
The doctor.

0:0:5.190 --> 0:0:19.60  
Afzal H (FCES)  
OK guys, we are transcribing on zoom, so I'll present the agenda now, right. I'll share the screen on zoom. So I'm really sorry about the teams because I couldn't make it up on teams.

0:0:18.940 --> 0:0:19.200  
Asif M A (FCES)  
You.

0:0:20.700 --> 0:0:21.630  
Afzal H (FCES)  
So it's just.

0:0:20.310 --> 0:0:22.790  
Asif M A (FCES)  
No worries. Just shall I start?

0:0:22.550 --> 0:0:22.820  
Afzal H (FCES)  
Sure.

0:0:24.240 --> 0:0:24.540  
Asif M A (FCES)  
And.

0:0:24.960 --> 0:0:26.870  
Afzal H (FCES)  
Yeah, I'll just share my screen now. Is that fine?

0:0:28.120 --> 0:0:28.960  
Afzal H (FCES)  
I understand.

0:0:29.420 --> 0:0:29.760  
Afzal H (FCES)  
That's.

0:0:27.540 --> 0:0:29.830  
Asif M A (FCES)  
Alright, I'm gonna start talking when the agenda comes.

0:0:30.930 --> 0:0:31.320  
Afzal H (FCES)  
OK.

0:0:31.120 --> 0:0:33.160  
Asif M A (FCES)  
OK. Hello everyone.

0:0:33.860 --> 0:0:34.390  
Asif M A (FCES)  
I'm sorry.

0:0:32.70 --> 0:0:41.220  
Afzal H (FCES)  
I I I'm sorry to interrupt us then I'll just ask you guys to turn the volume down for the teams, I believe.

0:0:41.980 --> 0:0:42.930  
Asif M A (FCES)  
Yeah, no worries.

0:0:42.350 --> 0:0:44.710  
Afzal H (FCES)  
Because you're heating gossels through zoom now.

0:0:46.640 --> 0:0:48.550  
Asif M A (FCES)  
No problem. OK. Ready? Yeah.

0:0:47.250 --> 0:0:53.80  
Afzal H (FCES)  
No problem. OK. OK, yeah, yeah, we're transcribing already, so you may present the agenda now.

0:0:54.150 --> 0:0:56.60  
Afzal H (FCES)  
My husband's welcome to.

0:0:53.490 --> 0:1:1.380  
Asif M A (FCES)  
Right. Hello, everyone. Welcome to UM the meeting today. It's the 9th of January 2023. Just come back from half term.

0:1:2.550 --> 0:1:16.580  
Asif M A (FCES)  
Everyone's here as president, apart from Cameron. So without Cameron, we're gonna have to go ahead with the meeting. So there's three main matters we're gonna go through, and we're gonna assign roles to each other, and we need to now start like.

0:1:31.950 --> 0:1:32.200  
Afzal H (FCES)  
What?

0:1:37.160 --> 0:1:37.690  
Afzal H (FCES)  
We got.

0:1:42.100 --> 0:1:42.870  
Afzal H (FCES)  
But.

0:1:18.10 --> 0:1:43.350  
Asif M A (FCES)  
Like start getting quicker with our work now because we're getting up against time. We need to get this first prototype done. So the first matter we have to look at is actually creating the first prototype. So now we need to actually have a working breadboard of the of the first prototype. So I know we got our parts through through Jamie. I know we ordered the parts. So Alex, I need you.

0:1:48.840 --> 0:1:49.100  
Asif M A (FCES)  
OK.

0:1:43.670 --> 0:1:52.800  
Afzal H (FCES)  
I'm sorry to interrupt. I guess I did ask Jamie, but he said, uh, they they are still in the way. So he said you we're gonna get those like probably in few days now.

0:1:53.360 --> 0:1:56.310  
Asif M A (FCES)  
Uh, they haven't come yet. I thought the news was that we had them.

0:1:58.40 --> 0:1:58.630  
Asif M A (FCES)  
Ah.

0:1:56.640 --> 0:2:1.880  
Afzal H (FCES)  
No, no, no, I I did. I did. I did hear that as well. But it wasn't like that.

0:2:4.470 --> 0:2:5.10  
Afzal H (FCES)  
About that.

0:2:3.850 --> 0:2:9.10  
Asif M A (FCES)  
Ah, well, that I didn't even know. OK, write then. So when the components do come then.

0:2:12.410 --> 0:2:12.720  
Afzal H (FCES)  
But.

0:2:18.380 --> 0:2:18.640  
Afzal H (FCES)  
I see.

0:2:10.170 --> 0:2:21.340  
Asif M A (FCES)  
Alex, I really need you to stand the breadboard with Cameron, cause I need Cameron to place the program onto the Arduino. So then you guys can make the bread one. Actually make it work and test it. So is that fine?

0:2:23.60 --> 0:2:23.610  
Afzal H (FCES)  
That's OK.

0:2:24.840 --> 0:2:25.410  
Afzal H (FCES)  
Umm.

0:2:22.890 --> 0:2:33.450  
Asif M A (FCES)  
That's OK because you look, we need this prototype done within the next few weeks because we have the presentation coming up as well and we wanna show that we have a working prototype.

0:2:34.670 --> 0:2:47.380  
Asif M A (FCES)  
So one other one other like matter, we need to look at as well is though we are using a breadboard we need to transfer this onto a PCB. So I know Hamza was working with.

0:2:49.20 --> 0:2:52.230  
Asif M A (FCES)  
Cameron on it. So, Hamza, how's the PCB file looking right now?

0:2:58.170 --> 0:2:58.740  
Asif M A (FCES)  
That's good.

0:3:2.380 --> 0:3:2.790  
Asif M A (FCES)  
OK.

0:2:52.400 --> 0:3:9.800  
Afzal H (FCES)  
I'm so currently we did have we have made the thingy. The schematics. It's all done because we showed that in the presentation as well. But The thing is, I was discussing this with Cameron in the university that we won't be able to.

0:3:24.140 --> 0:3:24.500  
Asif M A (FCES)  
It.

0:3:30.630 --> 0:3:31.700  
Asif M A (FCES)  
That we will.

0:3:33.330 --> 0:3:33.840  
Asif M A (FCES)  
And go.

0:3:10.900 --> 0:3:38.450  
Afzal H (FCES)  
Like order the PCB until we have done the first prototype, because it would be like impossible for us to do so. For that we need the components to come through on time, otherwise we won't be able to make the PCB for the first prototype. So because we obviously need to check if there is any other way we can improve the thing initially and we can then go with the proper thing for the 2nd and final prototype. So that's the thing as of now.

0:3:38.170 --> 0:3:38.740  
Asif M A (FCES)  
As of now.

0:3:55.0 --> 0:3:55.270  
Afzal H (FCES)  
OK.

0:4:0.410 --> 0:4:0.660  
Afzal H (FCES)  
I.

0:3:40.30 --> 0:4:1.100  
Asif M A (FCES)  
OK, after having uh, I think it's better, as you said, to make sure the breadboard works for the first prototype. Because look the if, as long as we find as our final one ends on a PCB, I honestly don't mind presenting a breadboard. That just means we got more work to do for the final. But then the final will be perfect then. So I honestly don't mind.

0:4:2.280 --> 0:4:5.130  
Asif M A (FCES)  
The PCB design being delayed, so that's fine.

0:4:7.190 --> 0:4:11.330  
Afzal H (FCES)  
The Bread Board is OK, so first workshop as is the concept.

0:4:11.570 --> 0:4:27.480  
Asif M A (FCES)  
Yeah, that's that's perfect then. And then one more matter is just ensuring that we have everything functioning tested. You know we have to go for testing, analysis. We gotta go through points of how we tested it and how our prototype works.

0:4:27.90 --> 0:4:30.250  
Afzal H (FCES)  
Yeah, I was just discussing that because.

0:4:40.100 --> 0:4:40.580  
Asif M A (FCES)  
OK.

0:4:49.900 --> 0:4:50.190  
Asif M A (FCES)  
Right.

0:4:52.40 --> 0:4:52.550  
Asif M A (FCES)  
Album.

0:4:59.270 --> 0:4:59.510  
Asif M A (FCES)  
That's.

0:5:0.480 --> 0:5:0.930  
Asif M A (FCES)  
Picture.

0:4:30.330 --> 0:5:1.600  
Afzal H (FCES)  
The we didn't go to stairs after the thingy after the class. Me and Alex as well. OK, Cameron just joined us later and he, we, me and Alex discussed that we should, you know, I mean go for, like proper testing thingy. So we will like discussing we can do that in the oven maybe because of the temperature things I pulled out all the sheets and checked like what temperatures do we have for the components. So I guess we should be able to do.

0:5:2.280 --> 0:5:2.490  
Asif M A (FCES)  
It's.

0:5:12.920 --> 0:5:13.780  
Asif M A (FCES)  
You just have to be.

0:5:18.110 --> 0:5:18.380  
Asif M A (FCES)  
This.

0:5:1.690 --> 0:5:18.680  
Afzal H (FCES)  
Managed to get a range of like around 10, zero to 45 degrees probably. I mean I don't mind if we go a little minus in the negative, but I guess if we go higher that would be difficult. So I mean we got this, it's just it's just like.

0:5:21.870 --> 0:5:23.690  
Asif M A (FCES)  
Does not even have to company.

0:5:27.30 --> 0:5:27.980  
Asif M A (FCES)  
That's fine.

0:5:19.540 --> 0:5:32.550  
Afzal H (FCES)  
Not even on the we don't. We don't even have the components. So it's just like the documentation. So I think it's when we get the document of the components, sorry, I guess that will be much better.

0:5:33.170 --> 0:5:38.890  
Asif M A (FCES)  
Yeah, I just need to know what testing strategies etcetera that we you guys did and from Alex's?

0:5:42.440 --> 0:5:43.650  
Asif M A (FCES)  
Because the.

0:5:38.110 --> 0:5:48.10  
Afzal H (FCES)  
You have because they're gonna vary if we change the schematic I heard. That's the thing. Because the the thing we have currently is theoretical. So when it comes to practical, it might be much better.

0:5:50.350 --> 0:5:52.480  
Afzal H (FCES)  
Create the first thing that is.

0:5:46.610 --> 0:5:54.110  
Asif M A (FCES)  
Things to practical because I just got a because I'm creating the presentation, so I just need you guys to let me know in good time.

0:5:55.210 --> 0:5:56.380  
Afzal H (FCES)  
Umm yeah, that's fine.

0:5:57.370 --> 0:5:58.940  
Asif M A (FCES)  
Alright then, UM.

0:5:59.810 --> 0:6:0.440  
Afzal H (FCES)  
For testing.

0:6:6.370 --> 0:6:6.750  
Afzal H (FCES)  
Yeah, yeah.

0:5:59.770 --> 0:6:19.80  
Asif M A (FCES)  
That's it for now, because there's not much we can go into because you know, we're still on the first prototype where we need to complete it. So these next few weeks, we need to complete this first prototype, get the presentation ready and make sure it's functioning. If any. Does anybody have any other questions? I know Cameron's not here, but have you guys got any questions?

0:6:21.530 --> 0:6:22.820  
Afzal H (FCES)  
Alex was saying something.

0:6:23.450 --> 0:6:24.670  
Asif M A (FCES)  
Alex we saying anything?

0:6:24.20 --> 0:6:27.230  
Afzal H (FCES)  
Like uh, I was just going to say.

0:6:26.570 --> 0:6:27.750  
Asif M A (FCES)  
Say with the.

0:6:28.890 --> 0:6:29.500  
Afzal H (FCES)  
Testing.

0:6:28.790 --> 0:6:29.550  
Asif M A (FCES)  
Testing.

0:6:31.510 --> 0:6:36.440  
Afzal H (FCES)  
I figured out, but just that's like about this when whenever you get.

0:6:40.270 --> 0:6:40.610  
Afzal H (FCES)  
I think.

0:6:42.560 --> 0:6:43.70  
Afzal H (FCES)  
OK.

0:6:31.440 --> 0:6:44.430  
Asif M A (FCES)  
I just figured out that we would just have the components for this when whenever we get those and then umm just make sure like the fingerprint scanner actually scans, does it actually score the image of the fingerprint?

0:6:45.610 --> 0:6:48.570  
Afzal H (FCES)  
Yeah, just making sure all the concept work.

0:6:51.560 --> 0:6:52.310  
Afzal H (FCES)  
Stress testing.

0:6:52.390 --> 0:6:53.100  
Afzal H (FCES)  
That's not good.

0:6:53.480 --> 0:6:55.410  
Afzal H (FCES)  
It's different currents.

0:6:45.610 --> 0:6:55.940  
Asif M A (FCES)  
Yeah, just making sure all the concept works on breadboard. Yeah, that's it. Also stressed like stress testing or circuit, of course testing different currents and.

0:6:56.660 --> 0:6:57.180  
Afzal H (FCES)  
From the.

0:6:59.350 --> 0:6:59.770  
Afzal H (FCES)  
OK.

0:7:2.500 --> 0:7:3.0  
Afzal H (FCES)  
It's.

0:7:15.70 --> 0:7:15.360  
Afzal H (FCES)  
So.

0:6:56.600 --> 0:7:26.180  
Asif M A (FCES)  
Running it as a yeah, so testing currents. For example, if we do get the lock, what power and how many amps it needs for it to open up? Exactly like stuff like that is good to mention that we varied the current as well to get the correct output. So just let me know when you've done all of that. I'll put it into the presentation and we can also discuss that with me. And Hamza is specially we can bring that up with Ben when we present as well. So apart from that as anybody got any other questions now?

0:7:26.790 --> 0:7:27.560  
Afzal H (FCES)  
No, that's fine.

0:7:35.960 --> 0:7:36.240  
Afzal H (FCES)  
Right.

0:7:42.150 --> 0:7:43.70  
Afzal H (FCES)  
Yeah.

0:7:43.990 --> 0:7:45.300  
Afzal H (FCES)  
As well, umm.

0:7:46.20 --> 0:7:46.450  
Afzal H (FCES)  
OK.

0:7:48.90 --> 0:7:48.460  
Afzal H (FCES)  
Yes.

0:7:27.210 --> 0:7:53.500  
Asif M A (FCES)  
You know, that's fine. OK, perfect. Right. Let's start with this first prototype. We gotta start right away. So after well after this break, we should meet up at the Union, start getting on with the first prototype. So I'm gonna get there. I think Cameron will probably get there as well at the same time, both 10 or whatever time. Sorry. And we'll start then. So I'll catch you guys there then. I'm. I'm just gonna leave now for you. Uni, are you?

0:7:52.20 --> 0:7:57.410  
Afzal H (FCES)  
Yeah. You know, guys, I I'll just start the transcription for record.

0:7:59.720 --> 0:8:0.360  
Asif M A (FCES)  
What you mean?

0:7:59.880 --> 0:8:8.290  
Afzal H (FCES)  
And I mean that we because we are transcribing. So I just I just need you to let you know that I'm stopping the transcription, OK?

0:8:8.280 --> 0:8:9.490  
Asif M A (FCES)  
Oh yeah, that's fine. That's fine.

0:8:10.70 --> 0:8:11.220  
Afzal H (FCES)  
And stopping the thing.