**Meeting in \_General\_-20240417\_153105-Meeting Recording**

April 17, 2024, 1:31PM

1h 24m 36s

 **Mikyle Fourie** 0:03  
Do you wanna talk about the the question you had posted?

 **Ivy Chepkwony** 0:09  
Umm, it's just because when I'm trying to install Jango properly in the virtual environment, but like when I put that that act when I activate the virtual environment it's not activating.

 **Mikyle Fourie** 0:24  
Hmm.

 **Ivy Chepkwony** 0:25  
And then I tried to install it.  
Anyways, to see maybe it had been activated, but I think you're right.  
I think it's giving me that warning because it's not.  
It's not activated yet.

 **Mikyle Fourie** 0:39  
Well, yeah.  
Well, I think it's like because if I check that same place where you would installed like the SQL and the.  
And the jango.exe files on my computer.  
I don't have those within my main Python folder on my computer like the one that's like deep into the user and program files and app data.  
It's not there for me.  
For me, it's in my Jango project, yeah.

 **Ivy Chepkwony** 1:11  
Yeah. No.  
Yeah, and it's supposed to be in in the virtual environment, but the problem is because you're supposed to activate the virtual environment before installing it, right?

 **Mikyle Fourie** 1:17  
Yeah.

 **Jacques Coetzee** 1:24  
Yeah.

 **Mikyle Fourie** 1:24  
OK. Yeah.

 **Ivy Chepkwony** 1:25  
He.  
Yeah, it's not doing that.

 **Eden Neave** 1:26  
Uh-huh.

 **Mikyle Fourie** 1:29  
How do you which step on that?

 **Jacques Coetzee** 1:30  
Yeah.  
So mine also didn't do that.  
I just used.  
It's like a different command or W3 schools tutorial doesn't work on everyone's computer.  
Just trying to find the website that I used.

 **Ivy Chepkwony** 1:47  
OK.  
Thank you.

 **Mikyle Fourie** 1:50  
So you you would activate it just by doing.  
Scripts.scriptsslashactivate.bat basically, that's what that will be.

 **Ivy Chepkwony** 1:59  
Yeah.

 **Mikyle Fourie** 2:00  
Three says it must.

 **Ivy Chepkwony** 2:02  
Yes, but that didn't work. Yeah.

 **Mikyle Fourie** 2:03  
Uh, not work, but that wasn't working.  
If you share your screen, can you show your command window?

 **Ivy Chepkwony** 2:15  
OK, sure.

 **Mikyle Fourie** 2:16  
And then maybe scroll up to that section where the activate thing didn't work.  
Maybe we can figure it out real quick.

 **Ivy Chepkwony** 2:26  
It's supposed to be, so I activated it here and then it's supposed to show in the next line, my world, etcetera, etcetera, etcetera, etcetera.

 **Mikyle Fourie** 2:35  
You see?  
You you're older.  
Your scripts folder you can't see.  
There we go.  
Now you can see the command line.  
Uh.  
Get where are you there?  
Uh. Uh.  
So it seems you did it twice in like nothing's happening.

 **Ivy Chepkwony** 2:51  
Yeah.  
And then I just decided to install it to see if it would.  
It was activated, but it just wasn't showing me the same output.

 **Jacques Coetzee** 3:00  
Umm.

 **Ivy Chepkwony** 3:01  
But clearly that didn't work so.

 **Mikyle Fourie** 3:01  
Yeah.  
Yeah.  
Is the activate.bat in the scripts folder.

 **Eden Neave** 3:05  
It is that they contact me.

 **Ivy Chepkwony** 3:08  
Yes, it is.  
It's of uh.  
Wait, let me find it.

 **Jacques Coetzee** 3:10  
Yeah.

 **Ivy Chepkwony** 3:18  
It's yeah.

 **Jacques Coetzee** 3:21  
Are doing that again, but just just say activate.

 **Mikyle Fourie** 3:22  
Uh-huh.

 **Jacques Coetzee** 3:24  
Don't say activate.bat.

 **Ivy Chepkwony** 3:27  
Does a deactivate?

 **Jacques Coetzee** 3:29  
No, like just say activate don't includethe.net.

 **Ivy Chepkwony** 3:35  
OK.

 **Eden Neave** 3:41  
I haven't done like downloading Jiang anything because I was just focusing on the games now.

 **Jacques Coetzee** 3:44  
I.

 **Mikyle Fourie** 3:47  
Yeah.

 **Jacques Coetzee** 3:48  
Yeah.  
OK, so that's.  
So that's where in the PowerShell you gotta activate scripts on your system.

 **Eden Neave** 3:51  
So OK.

 **Ivy Chepkwony** 3:58  
But where is this supposed?  
Is this right now?

 **Jacques Coetzee** 4:00  
Yeah.  
It's just that it it doesn't have permission to run the script on your system, so you gotta give it permission for that.

 **Ivy Chepkwony** 4:08  
How how do I do that?

 **Jacques Coetzee** 4:10  
So you got to open Windows PowerShell as an administrator.  
So as I start.  
And then our shell.  
And then run as administrator.  
And then you say set execution.  
Although wait.  
Sorry, just let me get it real quick, but one word said execution method.  
Or something. Yeah.  
Set execution policy.  
I'm just gonna send this screenshot real quick.  
Umm.  
Like it said X.

 **Ivy Chepkwony** 5:03  
Did you send?  
Oh wait, this is the link, didn't mind.

 **Jacques Coetzee** 5:09  
The type that.

 **Ivy Chepkwony** 5:12  
OK.  
Uh.  
Wait.  
This and then.

 **Jacques Coetzee** 5:25  
Yeah.  
And then you say.  
Unrestricted.  
And then you say a A and answer.  
OK, cool.  
Now you should be able to do it.  
So if you just run that other thing again.

 **Mikyle Fourie** 5:51  
Sweet.

 **Jacques Coetzee** 5:54  
Without adult pets, yeah.

 **Ivy Chepkwony** 5:55  
The activate.

 **Mikyle Fourie** 5:57  
Yeah.  
Hey.

 **Ivy Chepkwony** 6:02  
Ah, there we go.

 **Jacques Coetzee** 6:02  
There you go.

 **Ivy Chepkwony** 6:03  
OK, but now I have to uninstall Django from the other.

 **Mikyle Fourie** 6:06  
You know, we figure that out like this, Adam.

 **Jacques Coetzee** 6:07  
I guess, yeah.

 **Ivy Chepkwony** 6:07  
The other thing, but I'll do that later.  
OK.

 **Mikyle Fourie** 6:10  
Yeah, even you were saying something? Umm.

 **Jacques Coetzee** 6:11  
Cool.

 **Ivy Chepkwony** 6:11  
Thanks guys.

 **Eden Neave** 6:14  
Oh, I'm.  
I was just saying that I haven't downloaded the Jango yet because I've just been focusing on the game design prototype and yeah, but I'll probably do it over the weekend.

 **Mikyle Fourie** 6:19  
Yeah.  
Yeah, I feel that.  
Umm.

 **Eden Neave** 6:27  
Ohh yeah.

 **Mikyle Fourie** 6:27  
Yeah, even even then, I think working through that tutorial is a good idea, especially because it's one thing to all.

 **Eden Neave** 6:29  
Hey guys. Night.

 **Mikyle Fourie** 6:36  
Do the tutorial separately and it's another to set up one project on GitHub and then branch it and then clone it onto our individual machines and then run like.

 **Eden Neave** 6:41  
Yeah.

 **Mikyle Fourie** 6:47  
I don't know how that works necessarily.  
Like running the virtual environment of branch?

 **Eden Neave** 6:50  
Mm-hmm. True.

 **Jacques Coetzee** 6:51  
Yeah.

 **Mikyle Fourie** 6:53  
Not entirely sure.  
Well, figured out the UM for now.

 **Eden Neave** 6:58  
Yeah.

 **Mikyle Fourie** 6:59  
Let's talk.  
Uh task distribution for everything.

 **Eden Neave** 7:06  
OK, cool.

 **Mikyle Fourie** 7:07  
Umm, OK, OK.  
OK.  
So I guess where where do we want to start?  
Do we just want to kind of go through each person's like section that they didn't like?  
Kind of research for and just kind of give a an overview of what all those tasks kinda mean.

 **Eden Neave** 7:30  
Sure.

 **Mikyle Fourie** 7:30  
Uh, OK.

 **Ivy Chepkwony** 7:31  
Yeah.

 **Mikyle Fourie** 7:32  
So then in that case, and have your first and for in terms of like top to bottom of the list.

 **Ivy Chepkwony** 7:37  
OK, sure.  
Let me just.  
OK, cool.  
It's just opening up.

 **Mikyle Fourie** 7:47  
Sure.

 **Ivy Chepkwony** 7:57  
OK so I was doing the databases.

 **Mikyle Fourie** 8:02  
Right.

 **Ivy Chepkwony** 8:04  
Is what I was looking at, so I did some like actual research on like the various things that we could choose and like how to draw the diagrams and what the all those all the terminology means.  
And it's under the research tab, the research page that I made.

 **Mikyle Fourie** 8:21  
To.  
Oh, nice.

 **Ivy Chepkwony** 8:26  
So whoever is going to be assigned to do all this, basically everything is is there.  
So they can just refer to that.

 **Mikyle Fourie** 8:34  
Nice.

 **Ivy Chepkwony** 8:36  
So basically, uh, we so the first task is to choose the database we want to work with for the prototype 1st and and then basically just justify your decision in the documentation and then the second thing is to choose and or consider a different database for the overall project.

 **Mikyle Fourie** 8:47  
Hmm.

 **Ivy Chepkwony** 9:01  
If the database were using for the prototype, won't be able to handle all the functionalities of the overall project in the long run.

 **Mikyle Fourie** 9:13  
Right.

 **Ivy Chepkwony** 9:13  
So yeah, that's the other thing.  
And then just justify that in the documentation and then the main thing to do is to design the skimmer of the database.  
I'm centrally the scammer is like the.  
Is like the skeleton of the database and like the representation of the database and all of that is explained in the research section.

 **Mikyle Fourie** 9:33  
Yeah.

 **Ivy Chepkwony** 9:41  
UM, so that's the main thing.  
And then yeah, I just separated it into there's different database tables or databases that we're having, you know, for the users, the quiz questions, the leaderboard, the game sessions.  
And then I put down the scores.  
I don't know if we need like a separate database table to handle the schools or not.

 **Mikyle Fourie** 10:10  
No, I don't think so.  
It's called be like attached to the user.

 **Ivy Chepkwony** 10:14  
The user.  
OK, OK, cool.

 **Mikyle Fourie** 10:14  
Umm and I don't know if like any was a game session.  
What do you think you mean by the game session database?

 **Ivy Chepkwony** 10:23  
I'm well.  
It was mentioned somewhere but I I guess the game session where I understood it is when you're in the game play it sort of takes.

 **Mikyle Fourie** 10:30  
Hmm.

 **Ivy Chepkwony** 10:37  
Umm, like this amount of people?  
Will these users played in this game session and this was the outcome and this is how long they played for like to keep track of the game sessions essentially?

 **Mikyle Fourie** 10:50  
Yeah. Still.  
Yeah, I don't know if we need that.  
I see that it could be made, I just don't know if it's necessary.

 **Ivy Chepkwony** 10:58  
Hey.

 **Mikyle Fourie** 11:00  
Umm, yeah.

 **Ivy Chepkwony** 11:00  
Yeah.  
OK, we can take it out.

 **Mikyle Fourie** 11:03  
Yeah, I'm just mentioning it, and the leaderboard definitely makes sense.  
And the quiz questions and the users all make sense as well.

 **Ivy Chepkwony** 11:07  
Yeah.

 **Mikyle Fourie** 11:10  
And I do think scores can be attached to users.

 **Ivy Chepkwony** 11:13  
OK.

 **Mikyle Fourie** 11:15  
Yeah.

 **Ivy Chepkwony** 11:15  
OK, cool.  
And then just for the quiz questions and answers, we could split that up into like separate database tables based on the theme like what we were discussing the other day or it depends on the schema that you use.

 **Mikyle Fourie** 11:28  
Yeah.

 **Ivy Chepkwony** 11:33  
So like, there's different models that allow you to, umm, put more complex data end.

 **Mikyle Fourie** 11:34  
Hmm.  
Yeah.

 **Ivy Chepkwony** 11:44  
So like, it's not like you have to have like a different database for each one.  
You can just design it such that you can have the separations, but it won't be like in a separate database.  
I don't know if that makes sense, but umm yeah.

 **Mikyle Fourie** 11:56  
Yeah.  
No, I I hear what you're saying.

 **Ivy Chepkwony** 11:59  
And then, uh, just to map out the relationships between the different databases and then obviously configure the database to Jango, the one that the one that the person decides to choose and then create the Django models for each database table which is just like the coding and stuff and yeah.

 **Mikyle Fourie** 12:13  
Yeah.  
Yeah.  
Yeah.

 **Ivy Chepkwony** 12:22  
So that's like the main things.

 **Mikyle Fourie** 12:22  
And so I'll mention that the model will only be just like, here's the here's the database, but it's also the data handling, so it's like pulling the data from the database and then look, you know, like signing and doing that and doing this that'll mostly be done in the model from what I understand.

 **Ivy Chepkwony** 12:37  
Yeah.  
OK.

 **Mikyle Fourie** 12:46  
In which case, and the question of do we do one big database that the database divides all the data into its different sections?  
Or if we do separate discrete databases, isn't?  
Yeah.  
No, there to be honest, like both are very workable and fairly easy.  
I think to break apart using the model because their model is just coded in Python And that's like fairly straight forward.

 **Ivy Chepkwony** 13:10  
Yeah.  
Yeah.

 **Mikyle Fourie** 13:18  
So honestly, the I I don't think it matters.  
Not not that it doesn't matter.  
But like it's there's very small differences in pros and cons between the two.  
So whichever we pick is whatever.

 **Ivy Chepkwony** 13:34  
OK.

 **Mikyle Fourie** 13:36  
Cool. Umm.  
Jacques.

 **Jacques Coetzee** 13:43  
But we going like in order on the list and then it's gonna go eat and then.

 **Mikyle Fourie** 13:46  
Yeah.

 **Jacques Coetzee** 13:47  
OK, cool.  
Cool, cool. Cool.  
Cool.

 **Mikyle Fourie** 13:48  
Just going down.

 **Jacques Coetzee** 13:49  
So for this one right there is a there is a library that we can use called Django or and it basically takes djangos defaults looking stuffies and just makes it a lot easier and gives you much more much more functionality.

 **Mikyle Fourie** 13:53  
Yeah.  
OK.

 **Jacques Coetzee** 14:11  
And there's like, I think that's the link like a little simple tutorial like a YouTube video of like 20 minutes that we can use.

 **Mikyle Fourie** 14:17  
Cool.

 **Jacques Coetzee** 14:22  
Umm, so that's for like the basic things and the time management I kind of forgot that we had to do it.  
So I did it really quickly, but honestly it was just guesses based on how complex it sounded when I was researching it.

 **Mikyle Fourie** 14:30  
OK, so this is.

 **Jacques Coetzee** 14:35  
I don't really know how accurate that is, and then also why I actually.

 **Mikyle Fourie** 14:36  
Yeah.  
Yeah.  
Rather guesstimate.

 **Jacques Coetzee** 14:42  
We're actually chose all author and I guess we can like decide whether it's actually useful.  
But it looked really cool for me is because it does most of the Google authentication for you.  
Like all of the code is already there where you now, you just have to kind of set up the stuff on Google side like make a Google App token and whatever.  
But it does all the changelog mode for you for Google, yeah.

 **Mikyle Fourie** 15:09  
That sounds great, yeah.

 **Jacques Coetzee** 15:12  
So that's what this is.  
So the basic registrations in that tutorial, the Google thing has it's like own dedicated page.

 **Mikyle Fourie** 15:16  
Cool.

 **Jacques Coetzee** 15:21  
It's also well documented the whole thing, and then I just put another task there for actually flag users with special answers for HR.

 **Mikyle Fourie** 15:24  
Right.  
Umm, so this is something interesting.  
From what I understand, later on in our Django tutorial that we've been working through, there's an admin section and Django has like a pre built in admin section and once you're in the admin section it actually gives you access to the members and databases or the models and then you can directly go and add things to the models.

 **Jacques Coetzee** 15:35  
Of hey.  
Yeah.

 **Mikyle Fourie** 15:56  
And so I brought it up to, yeah, Andre and he had said, you don't really need to build your own admin UI and system.  
You can just use djangos one and as long as you've correctly instructed the admin people on how to use it for what they need to i.e.  
Adding new questions and stuff, then, then that'll be perfectly sufficient. So.

 **Jacques Coetzee** 16:16  
Umm.  
OK.  
Yeah, I thought we probably shouldn't use that.  
Just cause then you're giving these people like pretty much access to the whole system and they can break the whole thing.

 **Mikyle Fourie** 16:28  
The access, yeah.

 **Jacques Coetzee** 16:31  
Uh, but if if you Andre thinks that it's fine.

 **Mikyle Fourie** 16:32  
Yeah.

 **Jacques Coetzee** 16:35  
We just write a good how to guide then that should be.  
That's cool.

 **Mikyle Fourie** 16:41  
I don't know.  
I don't think they can create a whole new table.  
It's just a matter of adding and removing entries on individual tables.  
I think pattern which.

 **Jacques Coetzee** 16:52  
Yeah, not like you could.  
They could also just clear everyone's like all the members and stuff.

 **Mikyle Fourie** 16:56  
Yeah.  
I hopefully not, but there we go.  
Put it in testing if table arrest that man.

 **Jacques Coetzee** 17:03  
Yeah.

 **Mikyle Fourie** 17:09  
OK, see UM.  
Eating.  
You wanna?

 **Eden Neave** 17:15  
And yeah, sure.

 **Mikyle Fourie** 17:15  
Talk about it.

 **Eden Neave** 17:16  
So.  
So mine was doing the quiz logic for the section, so I the first thing is to design the quiz logic, define the flow of the quiz like questions, answers and the scores and then this I was when Abby said her.  
It kind of overlaps with man here, so I don't know how it will separate that, but yeah, so it's determine the structure of the database tables needed to store quiz related data.  
So that's also like part of the database section and then plan on the timer will work then.

 **Mikyle Fourie** 17:48  
Umm.

 **Eden Neave** 17:51  
This is how we'll fetch the questions randomly from the database to then be displayed to the user.  
Umm.

 **Mikyle Fourie** 18:00  
Yeah.

 **Eden Neave** 18:01  
And then it's obviously ensure that the Christians are retrieved efficiently and without repetition.  
So that you know you're not gain getting the same question to us or whatever.  
And then the timer.

 **Jacques Coetzee** 18:13  
Right.

 **Eden Neave** 18:14  
So we'd have to choose how we would use the timer, obviously, so that would be the research and I saw that you can have like in Django they have built in Thomas.  
So we can look at that, umm.  
And then obviously implemented, implement the timer and then handle what happens when the timer runs out basically.

 **Mikyle Fourie** 18:44  
Yeah.

 **Eden Neave** 18:45  
Umm.  
User input and value.  
What validation?  
Sorry my English was a bit yeah, so obviously that's just gonna be the like logic to handle if the user gets it correct.  
So if they get it wrong and how that will affect their schools and etcetera, yeah.  
Which and then again, this is related to the database, so again it's obvious section in this section kind of overlap and and then obviously the scoring system, we're gonna have to decide how the scoring system will work.  
Like if it's you get.  
A certain amount of questions and we could we could even have it so that it's you if you get the questions in a quicker time, you get more points.  
Just as an example, or just if you get like 10 out of 10 questions or seven out of 10 questions, whatever. Umm.

 **Mikyle Fourie** 19:41  
Yep.

 **Ivy Chepkwony** 19:47  
And.

 **Mikyle Fourie** 19:47  
Umm.

 **Eden Neave** 19:50  
Alright.  
And then this this is something we don't have to do, but it can be part of the future things.  
So the schools are updated like after every question.  
So you see if, say for instance, we all four together after each question you see if like your opponents gotta correct or wrong.  
So you see how many points there on so it's like in in real time updates.

 **Mikyle Fourie** 20:15  
Yeah.

 **Eden Neave** 20:16  
Yeah. Umm.

 **Mikyle Fourie** 20:18  
Post for a SEC.

 **Eden Neave** 20:19  
Yeah.

 **Mikyle Fourie** 20:20  
Well, well, well.  
Wait, so you had spoken about a like a quiz game that you've like played before?  
Is that 1 multiplayer?

 **Eden Neave** 20:30  
You can play multiplayer.  
Yeah, you can.  
So there's different like settings on how you can play, yeah.

 **Mikyle Fourie** 20:35  
OK.

 **Jacques Coetzee** 20:38  
And eating and I have been fighting on it for the past two days.

 **Mikyle Fourie** 20:38  
So one thing you know.

 **Eden Neave** 20:43  
Yeah.

 **Mikyle Fourie** 20:44  
So I'll also speak on it in my little section, but there's there's gonna be a we're going to have to kind of think about what we want the behavior to be as the system is as the quizzes happening itself, right, like if we're the four players and I pick an answer, do the three of you see the answer I picked or do we all pick the unset individually on our side?

 **Eden Neave** 21:09  
No.

 **Mikyle Fourie** 21:12  
And then once all four are picked and the timer is up, it validates and then then only do we see who got a right and wrong and stuff then that's how we decide.

 **Eden Neave** 21:16  
Yeah.  
Yes, that makes more.

 **Mikyle Fourie** 21:21  
Like, are we doing real time?  
The thing is like it makes more sense in terms of an implementation like kind of like.  
It's easier in theory, but I think it's clunky and not a great user experience.

 **Eden Neave** 21:37  
But if if you you have to answer us and it reveals that to me then like.

 **Mikyle Fourie** 21:37  
In terms of like.  
No.  
So I don't think it must tell you.  
Umm I have had this.  
It would be like you, you have four options ABCD right?

 **Eden Neave** 21:54  
Umm.

 **Mikyle Fourie** 21:55  
And then like by default they're old Gray.  
For example, the blocks that you would click on and then if say I choose option A, then it puts my like profile picture on on a it doesn't tell you if I was right or wrong, it just tells you that's the one I picked.

 **Eden Neave** 22:00  
Yes, that's exactly the game.  
Yeah that I.

 **Mikyle Fourie** 22:16  
And then if Ivy Picks B puts Ivy profile picture on B and if Jack picks B, it puts Jacques profile picture on B as well.  
So both their pictures are there and then in you pick yours.

 **Eden Neave** 22:25  
But I think that with, but I think if we do that, that would kind of give hints to what the correct answer could be.

 **Mikyle Fourie** 22:28  
Yeah.

 **Eden Neave** 22:35  
Say for instance, I know you're really good at Harry Potter questions.

 **Mikyle Fourie** 22:36  
The the.

 **Eden Neave** 22:40  
Then I could be like.

 **Mikyle Fourie** 22:41  
Umm.

 **Eden Neave** 22:41  
Ohh OK you put that on.  
So I'm also gonna put that in.  
Do you know what I mean?

 **Jacques Coetzee** 22:45  
I think what would be nice is if you just show that like that joke has picked something, but you don't know what he's picked just to kind of put pressure on you like ohh I have to pick now.

 **Mikyle Fourie** 22:46  
Right.  
Yes, that is like a yeah, maybe it is like a tick next to your name.

 **Jacques Coetzee** 22:57  
Yeah, yeah.

 **Mikyle Fourie** 22:58  
Yeah, yeah.

 **Jacques Coetzee** 22:58  
Yeah, like everyone has picked it answer but me, but I don't know what they picked.

 **Ivy Chepkwony** 22:58  
Yeah.

 **Eden Neave** 23:02  
Yeah, that's better. Yeah.

 **Ivy Chepkwony** 23:03  
Yeah.

 **Mikyle Fourie** 23:03  
Yeah, it's the thing that just the thing about that though, is like that involves real time feedback.

 **Jacques Coetzee** 23:07  
Ohh.  
Hmm.

 **Mikyle Fourie** 23:12  
Which I will speak more on my section so unto error handling in.

 **Eden Neave** 23:18  
OK cool so.  
So obviously this is like again, we don't have to do this for now.  
We could just plan ahead of it and say these are future goals, but basically it'll like we need a plan for errors happening like network errors or so errors, you know?  
So like say for instance someone does log off, then how do they get back in?

 **Ivy Chepkwony** 23:40  
Hmm.

 **Mikyle Fourie** 23:41  
Umm.

 **Eden Neave** 23:45  
Can they get back in things like that?  
So just that consideration, yeah.

 **Mikyle Fourie** 23:48  
Uh.  
Yeah.  
No, that makes sense.  
I I didn't even think about that.

 **Eden Neave** 23:57  
Yeah, OK, cool.  
And then obviously testing and debugging, which we'll have to do for basically every component.  
But unit tests like we did for the umm for the test, just to make sure everything's running correctly.

 **Mikyle Fourie** 24:06  
Yeah.

 **Eden Neave** 24:16  
And then obviously you will will all come together and practice the quiz, you know, like we'll all be conducting real tests in time. Yes.

 **Mikyle Fourie** 24:23  
If.

 **Ivy Chepkwony** 24:23  
Playtests.

 **Mikyle Fourie** 24:26  
Yeah.

 **Eden Neave** 24:26  
So then yeah, basically that's pretty much it for my section.

 **Mikyle Fourie** 24:31  
Get a sweet.

 **Ivy Chepkwony** 24:33  
Hmm.

 **Mikyle Fourie** 24:33  
Umm.  
Let's go.  
Ivy on you, I.

 **Ivy Chepkwony** 24:38  
OK, so for the UI, yes, sure.

 **Jacques Coetzee** 24:39  
So let me just pause for a second.  
The transcript that the transcript recognized Michael's last sentence as get a suite like even you did well, you get a sweet.

 **Mikyle Fourie** 24:43  
Pausing for us.

 **Jacques Coetzee** 24:54  
OK, let's carry on.

 **Mikyle Fourie** 24:54  
Nice.

 **Eden Neave** 24:56  
As what I am, I'm confused.

 **Jacques Coetzee** 25:01  
If you read the transcript, then the the AI, whatever thought Michael told you to get a suites.

 **Eden Neave** 25:08  
Or wait, where is it?  
I couldn't even see it.

 **Jacques Coetzee** 25:10  
Different.

 **Eden Neave** 25:11  
I wanna see.

 **Mikyle Fourie** 25:11  
At the bottom of the meeting.

 **Eden Neave** 25:16  
Where is it?

 **Ivy Chepkwony** 25:16  
Lol.

 **Mikyle Fourie** 25:18  
It's like scrolled all the way up now, because if you're talking over it's umm, but you'll see it up there in the meeting.

 **Eden Neave** 25:23  
Ah, it doesn't matter.  
Yeah, whatever.

 **Mikyle Fourie** 25:26  
That at yeah, I.

 **Ivy Chepkwony** 25:29  
OK, so for the UI design.  
So the one the first thing is just the user interface for the login, the user authentication gameplay, the leaderboard, any admin and aeroscreen.  
So the first thing is obviously to make the wire frames and then consider the extra features that we choose and how it will integrate or how it will fit into the the UI and then also the user flow.

 **Mikyle Fourie** 25:52  
Mm-hmm.  
Yeah.

 **Ivy Chepkwony** 26:02  
So I think it would be helpful to make like a diagram of the users flow from the login screen to like the end when they look at the leaderboard or whatever and then consider all the UI elements for a good user experience so that the quiz and also that the quiz can be accessible on other devices.

 **Eden Neave** 26:10  
Umm.

 **Mikyle Fourie** 26:14  
Umm.

 **Ivy Chepkwony** 26:25  
Is that a thing that we need to?

 **Mikyle Fourie** 26:28  
Where only feeling for Windows and limits cool.

 **Ivy Chepkwony** 26:28  
Do.

 **Eden Neave** 26:28  
It's good so that we don't have to.

 **Ivy Chepkwony** 26:31  
OK.

 **Eden Neave** 26:32  
Yeah, we do, yeah.

 **Ivy Chepkwony** 26:34  
OK, so this is a this is an extra thing.

 **Eden Neave** 26:37  
Well, it doesn't have to be like if we get to that point in time and we what we kinda do need it to work on our laptops and Andreas laptop like those those are the.

 **Mikyle Fourie** 26:37  
Cool.  
Yeah, you know, but that's the point.

 **Ivy Chepkwony** 26:46  
Yeah, but I mean like mobile.

 **Mikyle Fourie** 26:47  
She's not.  
More is like mobile tablet.  
That's a bit \*\*\*\*\*\*\*\*.

 **Eden Neave** 26:53  
Yeah, I think that we can make that like a future goal.  
Maybe like, do you know what I mean?

 **Mikyle Fourie** 26:58  
Yeah.

 **Jacques Coetzee** 26:58  
Ohh yeah.

 **Ivy Chepkwony** 26:58  
For the long run, OK.

 **Mikyle Fourie** 26:59  
So I'll I'll manage to preemptively that and we're probably gonna do the front end with help from bootstrap.  
And bootstrap is kind of built to accommodate that kind of thing.  
Umm, but with some finesse.  
So we'll still mention it as a goal.

 **Ivy Chepkwony** 27:16  
OK, OK, cool.

 **Eden Neave** 27:16  
OK, cool.

 **Ivy Chepkwony** 27:18  
And then the obviously the next thing is to migrate these designs into HTML and make the templates and then obviously use CSS and JavaScript to make that happen.  
Umm.

 **Mikyle Fourie** 27:32  
Yeah.

 **Ivy Chepkwony** 27:33  
And yeah, just to ensure that the HTML is also in integrated with the back end and the databases and stuff.  
But that's obviously I think that's will be mentioned elsewhere, but yeah, yeah.

 **Mikyle Fourie** 27:45  
Exactly.  
So let me mention that for you.  
Uh, you'll see there is my front end section.

 **Ivy Chepkwony** 27:51  
OK, cool.

 **Mikyle Fourie** 27:55  
My lists are like uh, they're like drop down lists.

 **Jacques Coetzee** 27:58  
I fancy.

 **Mikyle Fourie** 27:59  
You can click on there.

 **Ivy Chepkwony** 28:00  
Yeah.

 **Mikyle Fourie** 28:01  
Yeah.  
And they open and because I saw even put ABC's and I couldn't figure out how to do that.  
I probably spent like almost 10 minutes trying to figure out how to make an ABC list and I gave up.  
So my my step one from the front end is just to get the wire frame from the from whoever's gonna do the the wire frame and make sure that you speak whoever does the front end development itself speaks to the the UI designer and just understands like.

 **Ivy Chepkwony** 28:22  
Yeah.

 **Mikyle Fourie** 28:36  
The flow of which pages linked to, which also understand uh, what are buttons like?

 **Ivy Chepkwony** 28:39  
Yeah.

 **Eden Neave** 28:40  
Umm.

 **Mikyle Fourie** 28:43  
Which things on the wireframe?  
All buttons and what must those buttons do?

 **Eden Neave** 28:47  
Yeah.

 **Mikyle Fourie** 28:47  
Umm, we need to figure out which sections of the wireframe change dynamically, so that doesn't mean that they change live.

 **Ivy Chepkwony** 29:11  
Yeah.

 **Mikyle Fourie** 29:11  
Then the square that accommodates for different options needs to accommodate 4 different question types.

 **Ivy Chepkwony** 29:11  
Yes.

 **Eden Neave** 29:15  
Yeah.

 **Mikyle Fourie** 29:18  
So if we have a multiple choice, it needs to have four options, or if it's a like I don't know, like, pick whoever gets the number closest it needs to accommodate for like a slider or something like that.

 **Eden Neave** 29:19  
And.

 **Mikyle Fourie** 29:32  
So that's what I mean by dynamic and and then that final point is figure out what needs to be real time, what needs to change immediately, which is generally going to be done in JavaScript.

 **Ivy Chepkwony** 29:34  
Yeah.

 **Mikyle Fourie** 29:46  
The chat is gonna have to be done though, right?

 **Eden Neave** 29:51  
If we do a chat.

 **Mikyle Fourie** 29:52  
And I think that's not an option.  
I think that's in the in the main requirements section.

 **Jacques Coetzee** 29:56  
Better chances of shining.

 **Mikyle Fourie** 30:00  
Is it?  
Thank God it's really cool though, and I think it's very doable.  
Umm, but I thought I was under the impression it was.  
It was one of the mains, so then cool thing.

 **Jacques Coetzee** 30:10  
Gonna go double check real quick.

 **Eden Neave** 30:13  
Also, I thought it was an extra.

 **Mikyle Fourie** 30:16  
Umm in while you check I'll say then we must like I have said, you must kind of make the HTML Django templates for each of the pages, but this will prove to be fairly involved because you kind of have to like.

 **Eden Neave** 30:17  
Anyways.  
Yeah.

 **Mikyle Fourie** 30:33  
Preemptively, the template is what splits it in like HTML, so it's what's dividing into your sections and stuff, and I predict it's definitely not the type of thing you get right on the first try, you know?  
UM and especially again here with the assumption that certain things need to be live and real time feedback that's gonna take some some setup then as static assets.  
This is just figuring out like if we're gonna use the CSS style sheet graphics library, all the JavaScript and any other like images and stuff just gotta like write those and link those and then the Django the views themselves.  
Umm, you need to figure out how the views are what like communicate from the requests from the users when the user wants to do something the view picks that up and then it communicates it to the rest of the system with what we're doing.  
Umm, so the view is the thing that picks up like, OK, we're moving on to the next question.  
I need to access this model and with this database to get this data and then randomize it and then display it on the template.  
So then it's just a matter of integrating all of that.

 **Ivy Chepkwony** 31:58  
Who?

 **Mikyle Fourie** 31:58  
As for testing, the testing is pretty much what we expect.  
Writing unit tests for the models and the views.  
The templates won't have unit tests I believe, but the the views and models will umm and it's just like you know the the the usual things check for what happens if you put in wrong value amounts, negatives, positives, check for wrong value types.  
Putting strings into ints and stuff like that.

 **Ivy Chepkwony** 32:30  
Mm-hmm.

 **Mikyle Fourie** 32:31  
What happens if inequalities don't work?  
Too.  
All that sort of thing?  
Umm.  
Then we gotta check each part.  
Basically, each joint of the project like each section where the back end connects into the front end, we gotta test and make sure those are working and robust.  
And we also got to check where the APIs, which probably would just using the Google One, just making sure that that's all up and running and then.  
Testing the front end this, like we said is very much like kind of play test kind of thing.  
Just check off all the buttons work, check all the links, go where they go and then check the general performance.  
Is it working as expected?  
And yeah, uh, Jacques, did you manage to find out is the quiz.

 **Jacques Coetzee** 33:17  
Oh yeah, it's optional.

 **Mikyle Fourie** 33:17  
Is the chat nice?  
Kind of wanna do it though, kind of be a flex.

 **Jacques Coetzee** 33:26  
It's like the first one on the list.  
You know, everyone's gonna try and do that.  
We could do something better.

 **Mikyle Fourie** 33:31  
Movie chats.  
Not cool, man.  
I don't know if it gets much better than that, and it might be one of those things where if we.

 **Jacques Coetzee** 33:38  
So I just feel like it, it doesn't make sense for a quiz game, you know, like you're you're not gonna start chatting with each other.

 **Mikyle Fourie** 33:43  
Yeah, you don't need communicate. Yeah.

 **Jacques Coetzee** 33:44  
You.  
You you went up in the zone.

 **Mikyle Fourie** 33:48  
Yeah.  
Umm but yes, we we can look at that.

 **Jacques Coetzee** 33:49  
You know.

 **Mikyle Fourie** 33:56  
It's just one of those things.  
Like if we are already going to do real time dynamic stuff, I don't think it's that hard to do the chat on top of it because it's pretty similar implementation I believe.

 **Jacques Coetzee** 34:08  
And like, I bet you 100 Rand, there's just like a.

 **Mikyle Fourie** 34:14  
You faded out. What? Uh

 **Jacques Coetzee** 34:14  
Ready.

 **Eden Neave** 34:16  
Yeah, you cut it.

 **Jacques Coetzee** 34:16  
Ohh I don't.  
I don't know.  
That's weird.  
I bet you like 100 Rand.

 **Ivy Chepkwony** 34:19  
Yeah, we didn't.

 **Mikyle Fourie** 34:19  
Yeah.

 **Jacques Coetzee** 34:20  
There's already like a library that does a check box implementation in Python.

 **Mikyle Fourie** 34:23  
Exactly.

 **Eden Neave** 34:24  
And.

 **Mikyle Fourie** 34:27  
Yeah.  
OK.

 **Jacques Coetzee** 34:29  
Alright.

 **Mikyle Fourie** 34:30  
You wanna talk to us about security?

 **Jacques Coetzee** 34:32  
OK, this ones, this ones a double barrel because I'm too in a row here, but they're too short ones, so it's fine.  
OK, so for security I kind of just kept the chacha BT words because there's not really a lot that we can do with our skill sets.

 **Eden Neave** 34:49  
You know.

 **Mikyle Fourie** 34:51  
You.

 **Jacques Coetzee** 34:52  
First up, I was actually only thinking SQL injection.  
I have no idea.  
This attack there from Chachi PT through my mic is inside my mouth.

 **Ivy Chepkwony** 34:59  
You're fading out.

 **Mikyle Fourie** 34:59  
Come closer than jump.  
He went away.  
It's so weird.

 **Eden Neave** 35:04  
I think it's made with it.

 **Mikyle Fourie** 35:04  
It sounds so funny.  
It's like it's like you're moving far away and coming closer.

 **Ivy Chepkwony** 35:08  
Yeah.

 **Jacques Coetzee** 35:09  
That is very strange.  
OK, I took like the the cushion thing off of my mouth.  
So off of my mic, so maybe that helps.

 **Mikyle Fourie** 35:16  
Snow.  
Maybe. Maybe.

 **Jacques Coetzee** 35:18  
OK, so I don't know what XSS attacks are.  
They were just there for GPT, but uh doing like sequel injection protection.

 **Mikyle Fourie** 35:26  
Mm-hmm.

 **Jacques Coetzee** 35:32  
It's seems pretty straightforward and it's very common attack, so that is stuff with that.

 **Eden Neave** 35:37  
Umm.

 **Ivy Chepkwony** 35:38  
Hmm.

 **Jacques Coetzee** 35:38  
But that's kind of more like it says that best practices, well coding.  
So that's pretty much something that just everyone's gonna do.  
Well, they're writing the code and then we can have like whoever this person is, just double check that everything is kind of up the standard, I guess.

 **Mikyle Fourie** 35:48  
OK.

 **Ivy Chepkwony** 35:53  
Yeah.

 **Jacques Coetzee** 35:55  
Umm, which is why there's question marks.

 **Eden Neave** 35:55  
OK.

 **Jacques Coetzee** 35:57  
Because that's like kind of a going thing.

 **Eden Neave** 36:00  
Umm.

 **Jacques Coetzee** 36:01  
Uh, OK, cool.  
And then for HTTPS, but you just need to install a certificate like get a certificate from Google that your website is safe and then you just put it in your HTML and then get the little lock icon on the laptop.  
So that shouldn't take too long.  
And then we can, when we save every every users like password and credentials we can just run it through like a hash function.  
But we uh, which also I just gave it back for hours because I think that's also pretty standard stuff.

 **Ivy Chepkwony** 36:32  
Yeah.

 **Jacques Coetzee** 36:40  
But other than that, I couldn't really think of anything.

 **Ivy Chepkwony** 36:40  
Ooh.

 **Mikyle Fourie** 36:40  
You're right.

 **Ivy Chepkwony** 36:43  
We do.  
You think that's gonna be easy to do?

 **Jacques Coetzee** 36:49  
I think so because it's not.

 **Mikyle Fourie** 36:49  
Yeah.

 **Jacques Coetzee** 36:50  
It's not like really complicated.  
You're just jumbling up the letters and remembering, like saving the cache key of how you jumbled it right.

 **Mikyle Fourie** 37:01  
Yeah.

 **Ivy Chepkwony** 37:02  
OK.

 **Mikyle Fourie** 37:03  
You can just reverse it to unhashed it.

 **Jacques Coetzee** 37:06  
No.  
Umm, but encryptions hard for the hackers.  
Not hard for the people encrypting.

 **Mikyle Fourie** 37:16  
Thank you.

 **Ivy Chepkwony** 37:16  
OK.  
Yeah.  
OK, makes sense.

 **Jacques Coetzee** 37:18  
Ohh and then deployments you guys, this one was a of below one but I narrowed it down to like two options being a WS and Heroku GitHub pages and local host sounds like too much of a headache.  
And then between those two, Heroku seemed to be like much more user friendly and have much more documentation and they actually have like features for free plan.  
So that is quite nifty.  
Amazon, you have to pay for anything to actually work.

 **Eden Neave** 37:55  
OK.

 **Mikyle Fourie** 37:56  
Uh-huh.

 **Jacques Coetzee** 37:57  
And then I also put this in the useful links, but these they are lost it now where are we?

 **Eden Neave** 38:05  
I don't put in directed to use Heroku because Amazon doesn't have it, just so you remember that.

 **Jacques Coetzee** 38:13  
What?

 **Eden Neave** 38:15  
Like you said, Heroku has that for free whereas Amazon doesn't, right?

 **Jacques Coetzee** 38:21  
Yeah.

 **Eden Neave** 38:22  
So can I put it in brackets that we should use that instead of Amazon because of this reason, just remember sorry.

 **Jacques Coetzee** 38:28  
Uh, yeah, yeah, yeah.

 **Mikyle Fourie** 38:29  
And.

 **Jacques Coetzee** 38:29  
Yeah, sure, sure.

 **Mikyle Fourie** 38:31  
And it's easier.

 **Jacques Coetzee** 38:32  
No.

 **Mikyle Fourie** 38:33  
So say say.

 **Jacques Coetzee** 38:33  
And it's actually like it's built on top of many of the Amazon tools.  
So it's still uses Amazon stuff.  
It just makes it much more user friendly and like their services a free.

 **Mikyle Fourie** 38:43  
Yeah, so so you can say like it's seems more user friendly, easier to implement and.

 **Eden Neave** 38:47  
Later.

 **Jacques Coetzee** 38:51  
Better documented.

 **Mikyle Fourie** 38:53  
Better documented and more.  
Uh.  
More feature accessible than Amazon.

 **Eden Neave** 39:01  
I've just.

 **Jacques Coetzee** 39:02  
Yeah.

 **Eden Neave** 39:02  
I've just need instead of Amazon because easy and free.  
Just a reminder for us.

 **Jacques Coetzee** 39:06  
OK.

 **Mikyle Fourie** 39:08  
Sure. OK.

 **Eden Neave** 39:10  
Sorry.

 **Ivy Chepkwony** 39:11  
And come back.  
And it's.

 **Jacques Coetzee** 39:14  
For the attitudinal project, right.  
Uh.  
And then these next three steps, the three configure steps.

 **Mikyle Fourie** 39:18  
Umm.

 **Jacques Coetzee** 39:21  
Uh, I got from a tutorial and it's also mentioned like those three names are mentioned on Heroku's website, so they're kind of the standard stuff.  
I didn't really go into detail on they.  
They want any sub steps but I don't know how to do any of them.  
So I would if this is a side to me, then I could go further into into what they actually mean, but like multiple tutorials mentioned, those three steps.  
And so I put them there.

 **Eden Neave** 39:52  
Well.

 **Jacques Coetzee** 39:53  
And then the environment variables needs to be set up.  
I think based on like the path environments on our computers, I'm not sure and then we have to link it to the GitHub repository that we're making, but we do that like near the end.

 **Mikyle Fourie** 40:05  
Shawn.

 **Jacques Coetzee** 40:12  
Uh, so I can access all the updates that we make to the website and then there are like different configurations of Heroku based on how are databases look like.

 **Eden Neave** 40:18  
OK.

 **Jacques Coetzee** 40:25  
If it's a very relational database, you do this, and if it's something else, who do this.  
So after the database is set up then we just have to tweaker Heroku configurations based on how that looks.  
Yeah.

 **Ivy Chepkwony** 40:40  
OK, cool.

 **Eden Neave** 40:41  
Nice.

 **Mikyle Fourie** 40:42  
Why?

 **Jacques Coetzee** 40:43  
I don't know, man, I.

 **Mikyle Fourie** 40:47  
Yeah.

 **Jacques Coetzee** 40:49  
Wait, let me.

 **Mikyle Fourie** 40:49  
Interesting. OK.

 **Jacques Coetzee** 40:50  
Let me let me meet you, but I may hold up with the message.  
Yeah, I don't see it now.  
Never mind.

 **Mikyle Fourie** 41:01  
Dan.

 **Jacques Coetzee** 41:02  
But yeah, there are some settings that depend on how your database is set up.

 **Eden Neave** 41:07  
OK, let me finish my thing.

 **Mikyle Fourie** 41:09  
Umm.

 **Eden Neave** 41:10  
My section in and so the documentation and support what I understood from that it is it's the documentation for the user kind of thing.

 **Mikyle Fourie** 41:13  
Could what?

 **Ivy Chepkwony** 41:23  
Yeah.

 **Eden Neave** 41:24  
So OK.  
So obviously, we're gonna have to define the structure and outline of the document.  
So basically just plan what we want in this document.  
So I've said in setup instructions, usage guidelines, troubleshooting tips, and frequently asked questions.  
So for the setup instructions, obviously we're gonna just explain how our whole thing works, how to play like, how to set up the game, you know?  
Uh installation steps if they need to download Django or if they need Python on their laptop in order to play umm.  
Yeah, just any like extra information about setup and then for the usage guideline.  
So that's I guess more for the actual game itself.  
So I like how can you interact with the quiz platform?  
How to register login and black play against your friends? UM.  
So yeah, this is again like navigating the interface that would just be like where do I find my scores?  
Where do I find like the main menu?  
Things like that, just little features of the thing, yeah.

 **Mikyle Fourie** 42:46  
Yeah.

 **Eden Neave** 42:50  
Again, then he has tips to how to maximize the user experience.  
So like, how can I if if we do the chat for instance I'm how can I use the chat feature you know like umm just things like that and then frequently asked questions.  
So that would obviously be another section of the document.  
This would be like for our users because we have to see it as a business perspective like we as a business.  
So what would our users be asking in the sense like kind of like that?

 **Mikyle Fourie** 43:24  
Yeah.

 **Eden Neave** 43:24  
So answer their questions, Technical Support.  
You know, we obviously don't have a Technical Support team, but like just play, play, whatever as a business.  
Yeah.  
OK.  
And then this, we can add additional resources and links to further information for them to if they want any like additional information on the stuff we're giving them.  
And then support system setup and then I I said check it can be a future goals because we might not actually do this.  
Well, we we definitely won't, but because it's gonna be for users to report Bugs, request assistance or provide feedback.  
So obviously that would be like for other support team like I said for them to you know do all that stuff.

 **Mikyle Fourie** 44:17  
Yeah.

 **Eden Neave** 44:19  
And then review and editing.  
So this is just our basically the testing part of my section.  
So because you know for the first section I did like testing and debugging.  
So this is like review and editing.  
So basically we must all.

 **Mikyle Fourie** 44:34  
Yeah.

 **Eden Neave** 44:35  
We'll just the person who's doing this will review the documents, make sure it's the correct English accurate.  
Completeness and clarity.  
I'm same style and tone throughout the document and then.  
Obviously, if there's any feedback from our team members or the customer, then we can change that.  
Umm.  
And then formatting and styling.  
So that's again for the documentation.  
It all needs to have the correct headings, the lists, the correct fonts, etcetera.  
Like all, that's the kind of stuff.

 **Mikyle Fourie** 45:13  
Yeah.

 **Eden Neave** 45:14  
And then I also said China incorporate branding elements such as logos, color schemes to align with the quiz platforms design because that's again we have to think like a a business basically and then.

 **Mikyle Fourie** 45:25  
Yeah.

 **Eden Neave** 45:26  
Accessibility consideration.  
So this kind of reminded me from I am like we should always try to make out.  
Well, First off quiz and our documentation accessible to users with disabilities.  
So following the best practices for web accessibility, I don't know if we ever did the like HTML port.  
They can also just also mention this to, you know, be the most ethical that they can.  
For that, you know when they designing the their web pages or whatever and then any questions so far.

 **Ivy Chepkwony** 46:09  
No.

 **Mikyle Fourie** 46:09  
Anna.

 **Eden Neave** 46:11  
OK, cool.  
So then for the future improvements, yeah, what's your?

 **Mikyle Fourie** 46:13  
Ohh wait I'm questions.  
I do have one.  
I apologize, I think there's also the documentation isn't exclusively for people who are gonna use the quiz like as users, but also there's there should be a section that's for the admin people as well.  
Umm, but I guess that's kind of talked about here.

 **Ivy Chepkwony** 46:33  
Yeah.

 **Mikyle Fourie** 46:35  
Vaguely.  
Then just to clarify for us out loud that they must be like a section that explains to admin.  
People like this is how you log in as an admin.  
This is what you'll see.

 **Jacques Coetzee** 46:44  
How do you create new quizzes?

 **Mikyle Fourie** 46:45  
This is how you change things, yeah.

 **Eden Neave** 46:47  
OK.  
So I'll just say here at the top for users and for like admin what was admin members OK.

 **Mikyle Fourie** 46:57  
Yeah.

 **Eden Neave** 47:02  
How to log in?  
OK, cool.

 **Ivy Chepkwony** 47:08  
I'm just on that.  
On that note, would we need what these like for future?  
For future reference, would they need to be like a section like you said for admin but also for like the the like the what you call them?

 **Eden Neave** 47:18  
Umm.

 **Ivy Chepkwony** 47:30  
Sorry.  
Wait, the English is left me the yes. OK.

 **Eden Neave** 47:33  
The developers.

 **Mikyle Fourie** 47:35  
Have we got?

 **Eden Neave** 47:36  
Yeah.

 **Ivy Chepkwony** 47:36  
Yes, the developers cause like for maintenance and upkeep and stuff, wouldn't they need to be like a a manual or some sort for them as well?  
Or like a section?

 **Eden Neave** 47:47  
The thing is, if we make our public to everyone that we can't really, that would be like.

 **Ivy Chepkwony** 47:47  
For them.  
They're not.  
It doesn't have to be public, but I'm just saying like, should we mention that somewhere?

 **Mikyle Fourie** 47:56  
Yeah.

 **Eden Neave** 47:57  
OK, so that's like.

 **Jacques Coetzee** 47:58  
Right.  
So in case they fire us so that the next people can.

 **Mikyle Fourie** 48:00  
The right.  
Yeah, yeah.

 **Jacques Coetzee** 48:03  
Yep, steal our work.

 **Ivy Chepkwony** 48:06  
Yeah.

 **Mikyle Fourie** 48:07  
I mean, it's good practice in industry, but I hear it happens less than it probably should.  
Maybe write it down as a bullet point and we should say ask the customer.

 **Eden Neave** 48:16  
Yeah, I'll just say future goal have documentation for developers.

 **Mikyle Fourie** 48:18  
Umm.

 **Eden Neave** 48:24  
Care. Yeah.

 **Mikyle Fourie** 48:24  
Yeah, actually that's that's great because we don't actually have to do that one right, so.

 **Ivy Chepkwony** 48:29  
No.

 **Eden Neave** 48:29  
Yeah.

 **Ivy Chepkwony** 48:29  
We don't have to do it, but just I think we should mention it some way in our documentation.

 **Eden Neave** 48:32  
Yeah, that's great. Yeah.  
Umm, OK cool.

 **Ivy Chepkwony** 48:36  
That it's a future thing.

 **Mikyle Fourie** 48:36  
Actually, no.  
It's just to ask the customer and he said he's willing to answer emails all this week, so.

 **Eden Neave** 48:45  
OK, cool.  
So then for the future improvements I just said, obviously we can have enhanced cause futures like have customizable quizzes, leaderboard multiplayer mode.

 **Mikyle Fourie** 48:47  
I will email him.

 **Eden Neave** 48:59  
But I don't know now like all those extra features or are we gonna actually be doing those?

 **Ivy Chepkwony** 49:06  
What are you doing?

 **Mikyle Fourie** 49:08  
Umm.  
Say again which things?

 **Eden Neave** 49:10  
The action so like customizable.  
OK, for multiplayer, you said it's actually a requirement, right?

 **Jacques Coetzee** 49:17  
Yeah.

 **Eden Neave** 49:17  
So I so I'll just say my.

 **Mikyle Fourie** 49:18  
The multiplayer is definitely requirement.

 **Eden Neave** 49:22  
Customizable UM profile picture for example.  
Whatever.  
OK. Umm.  
OK.  
Then obviously develop a road map for implementing these feature features, prioritizing based on user feedback and project goals.  
Social login integration research and select social login providers.  
So like you know, if you if you log into Instagram you can say like link log in through Facebook, log in through Google, Log in through Twitter.  
You know, like so that's that's what I'm saying.

 **Ivy Chepkwony** 49:58  
Yeah.

 **Mikyle Fourie** 49:59  
Yeah.

 **Eden Neave** 50:01  
Yeah. Umm.  
OK.  
And this is just how we would do it, but it's a future goal, so it doesn't even matter.

 **Jacques Coetzee** 50:05  
Yeah.

 **Eden Neave** 50:09  
Ohh it's.

 **Jacques Coetzee** 50:09  
Well, all of those are all like at least the Google One is already a present goal.  
Hey, yeah.

 **Eden Neave** 50:15  
No, sorry about my dog.

 **Ivy Chepkwony** 50:15  
Yeah.

 **Eden Neave** 50:17  
Say they were just running on the floor.

 **Jacques Coetzee** 50:19  
Google I in fact actually all also like implements Facebook and Apple and Twitter and everything the same way it does Google.

 **Eden Neave** 50:20  
If you had.

 **Jacques Coetzee** 50:26  
So if we can manage to do Google, then maybe the other, the rest of them would be easy to add also.

 **Eden Neave** 50:33  
OK, cool.

 **Ivy Chepkwony** 50:33  
Yeah.

 **Mikyle Fourie** 50:33  
Yeah, in theory.

 **Eden Neave** 50:34  
Well, I just put it as a future will cause I wasn't sure if we were gonna be doing it or not, so.

 **Jacques Coetzee** 50:39  
Yeah.

 **Mikyle Fourie** 50:40  
Yeah.

 **Eden Neave** 50:40  
Yeah, but we can ship.  
Sorry, they're walking.  
OK.  
So then mobile app again, we said that can be a future goal.  
It just explains how we would do that.  
Umm, you know?  
Like if we wanted to, but it's obviously we're not gonna.  
So yeah, and then real time communication.

 **Mikyle Fourie** 51:05  
Yeah.

 **Eden Neave** 51:07  
That was a hitting before, but now we changed it to a future goal.  
So again, it's implemented real time updates for the quiz.  
Umm.  
Synchronization of quiz states across all connected users handle disconnection and reconnection gracefully.  
So that was the whole hitting that was there before.  
So I didn't change anything about that.

 **Ivy Chepkwony** 51:29  
OK, cool. Yeah.

 **Mikyle Fourie** 51:30  
Yep.  
Sorry, I'm just typing.

 **Eden Neave** 51:37  
This type.

 **Mikyle Fourie** 51:38  
Yeah, I'm saying good day customer.  
Uh hope all is well.  
Our team wanted to ask for clarification regarding the user manual.

 **Eden Neave** 51:46  
The.

 **Mikyle Fourie** 51:49  
Should there be a section for users?  
Uh admin as well as possible future developers.  
I await your.

 **Jacques Coetzee** 52:02  
I didn't know we were a Silicon Valley startup.

 **Mikyle Fourie** 52:06  
I'm I wait your timeously response?

 **Ivy Chepkwony** 52:13  
If.

 **Mikyle Fourie** 52:13  
Uh, should it be individual sections?  
Cool.  
So even we don't have much more time with you.  
You wanna call dibs on any tasks?

 **Eden Neave** 52:28  
I'm I I think I don't think I would be good at the HTML part, so I'm just gonna be honest.  
Like like I said, like we haven't done that.

 **Mikyle Fourie** 52:37  
Let's go.

 **Eden Neave** 52:39  
I haven't even started when I was meant to do for JavaScript already, so I haven't done that, so I don't think it would be really good at that.

 **Mikyle Fourie** 52:40  
Yeah.  
Yeah.

 **Eden Neave** 52:48  
Umm, I don't.  
I think for me the what I'm leaning towards is more like the the quiz logic kind of thing.  
The what?

 **Mikyle Fourie** 52:59  
Yeah.

 **Eden Neave** 53:00  
Like those section added was quiz logic.  
So I think basically that kind of setting up the questions, validating them, that kind of thing.

 **Mikyle Fourie** 53:10  
Yeah.

 **Eden Neave** 53:12  
So it's like, yeah.

 **Mikyle Fourie** 53:12  
When you.  
When you say you're comfortable making up that logic, are you happy to do that, both in a like design system relation kind of way as well as a code implementation?  
Kind of way.

 **Eden Neave** 53:30  
Yeah, I wouldn't mind that.  
Umm.

 **Mikyle Fourie** 53:32  
Yeah.

 **Eden Neave** 53:32  
Like when you say the design when you say the design, what do you mean by that?

 **Mikyle Fourie** 53:33  
So my.

 **Eden Neave** 53:37  
Specifically like as in the the more of like the the visual design of it or what do you mean?

 **Mikyle Fourie** 53:38  
So like.  
Well, well, for this, this election is more like the back end design.  
So the idea you don't have to do the detail in terms of the actual code for when you need to.  
You would have to think about like, OK, we OK, so we pull data from a table and this data we're going to need this bits of information about it.

 **Eden Neave** 54:00  
Yeah.

 **Mikyle Fourie** 54:04  
And this is how I would randomize it.

 **Eden Neave** 54:05  
Yes.

 **Mikyle Fourie** 54:08  
This is how I would validate it by just comparing but like the the broad strokes, the logic of it because I have a feeling that the front end, back end and database and networking is all going to be very close together like it's going to be very difficult to extrude it into four different people's things.

 **Eden Neave** 54:14  
Yes.  
It will, yeah.  
And this guy.  
Yes. Yeah.

 **Mikyle Fourie** 54:30  
Umm, in terms of the coding aspect of it in terms of the planning aspect of it, the database front end and back end logic and like overall designs can be separated like we can get somebody to think out the wireframe we can get somebody to think about how we can want to scramble the logic for the quiz and we can get somebody to take that quiz logic and then break it down into what necessary data and columns do we need in our database.

 **Eden Neave** 54:43  
Umm.  
Yeah.

 **Mikyle Fourie** 54:57  
Those can all be separated pretty easily, but the actual implementation in code I think it's gonna be quite difficult to separate.

 **Eden Neave** 55:06  
Yeah.  
So how would you wanna?  
What do you wanna do then?  
What you want me to do?

 **Mikyle Fourie** 55:10  
I feel like, umm, if you're happy to to think out the logic I'm I'm cool with that.

 **Eden Neave** 55:18  
OK.

 **Mikyle Fourie** 55:18  
And then like if you can just do like like a really like loose kind of like systems diagram type thing.  
Obviously you don't have to now I'm just saying like for future.

 **Eden Neave** 55:29  
Yeah, yeah, yeah.

 **Mikyle Fourie** 55:31  
Yeah.

 **Eden Neave** 55:31  
OK, cool.  
That's that's I don't mind doing that.  
We can obviously like make it a bit more refined.

 **Mikyle Fourie** 55:35  
OK.

 **Eden Neave** 55:39  
Obviously when we get to those points of, if you say, for instance, you're doing the more of the coding part of it and you kinda need help with it and because I'm doing the logic, you could ask me for help instead of asking someone who's doing, say, the security part, if that makes sense.

 **Mikyle Fourie** 55:46  
Yeah.  
Exactly, yeah.

 **Eden Neave** 55:57  
OK, cool.  
And then I don't like.  
I don't know.  
I don't really want to do the security.  
And so I can also do like more of the.  
Not really.  
The HTML like that kind of thing, but designing the wire frames, designing the user flow like that kind of documentation that if you.

 **Mikyle Fourie** 56:16  
Yeah.  
I would love that if you could do that, cause I'm pretty terrible at coming up with the idea.

 **Eden Neave** 56:23  
But.

 **Mikyle Fourie** 56:25  
I'm pretty great at dividing it into the blocks.  
It needs to be so we can collaborate. Umm.

 **Eden Neave** 56:29  
OK. OK, cool.  
Here, let me help them.  
OK. Sorry.

 **Mikyle Fourie** 56:35  
Cool.

 **Eden Neave** 56:37  
So I'm doing.

 **Mikyle Fourie** 56:37  
No, it's perfectly fine.

 **Eden Neave** 56:41  
So I'll do the quiz logic basically, and then what did you say?  
I'm just draw like do a kind of a.  
What did you say?

 **Mikyle Fourie** 56:49  
Basically first one or two drafts of the frame is what?

 **Eden Neave** 56:50  
A structure does and what did you say?

 **Mikyle Fourie** 56:54  
So why A-frame ohm?

 **Eden Neave** 56:56  
I know.  
But you said I'm just do like a structured diagram for the quiz logic.

 **Mikyle Fourie** 57:00  
Uh, yeah, yeah.  
Yeah, like it's systems diagram.

 **Ivy Chepkwony** 57:01  
Umm.

 **Eden Neave** 57:03  
Our system.  
Sorry, wrong S word.

 **Mikyle Fourie** 57:06  
That's.

 **Eden Neave** 57:09  
And then like all the wireframes like fonts, all of that like kind of stuff, the visual design.

 **Mikyle Fourie** 57:15  
Yeah.  
Yeah.

 **Eden Neave** 57:19  
OK, cool.  
And in yeah, OK.

 **Mikyle Fourie** 57:22  
And then I'll like get one frame from you and I'll try to translate it into a more rigid HTML structure and ask you for clarification.

 **Eden Neave** 57:26  
And yeah.

 **Mikyle Fourie** 57:32  
Umm, cool.

 **Eden Neave** 57:33  
OK.  
Is there anything else you guys want to do?

 **Mikyle Fourie** 57:36  
OK.  
We might wanna split the final documentation, so remember there's part of the splitting.

 **Ivy Chepkwony** 57:40  
I think that's fine.

 **Eden Neave** 57:44  
Correct. Yeah.

 **Mikyle Fourie** 57:46  
Here is 4.  
It's just for us to write down on the document we were submitting on Monday. Right?

 **Eden Neave** 57:52  
Yes, umm.

 **Mikyle Fourie** 57:55  
They they there is no real sort of pressure for us to actually stick to it 100%, especially the pots that are going to happen for the final final submission, which isn't gonna happen right in terms of like at the end of the day, we still need to submit the documentation that the technical manual and the user manual.

 **Eden Neave** 58:01  
Correct.  
Yeah.  
Yeah.  
Yeah.  
Yeah, so, so I'll do that well for the.

 **Mikyle Fourie** 58:20  
Something that.

 **Eden Neave** 58:22  
Yeah.  
Sorry, sorry to interrupt.  
I didn't mean to.

 **Mikyle Fourie** 58:26  
That's alright.  
I'm just trying to think about like how is best to split up that sort of documentation.  
Would probably be, yeah, hard to gauge.

 **Eden Neave** 58:38  
Well, you guys, maybe we can decide then on what our future goals are for the final thing.  
And then one like for Jack and RV and you, what do you guys want to do for the long term goals?  
Because we need, obviously an individual documentation now for for, for Monday, which highlights individual things.

 **Mikyle Fourie** 58:55  
Yeah.

 **Ivy Chepkwony** 58:56  
Yeah.

 **Eden Neave** 58:57  
So that can just be for now.  
What?  
Well, like obviously you guys must choose what you want to do.  
Umm, but.

 **Mikyle Fourie** 59:05  
Yeah.

 **Eden Neave** 59:07  
Yeah.  
So then we can decide that and then after we've decided that we can decide for the project plan and the technique.

 **Mikyle Fourie** 59:08  
Umm.

 **Eden Neave** 59:15  
Uh, the requirement doc what each of us can do for that, like the specific fittings?

 **Mikyle Fourie** 59:21  
Submitting on Monday the 22nd right.

 **Eden Neave** 59:24  
Yes.

 **Ivy Chepkwony** 59:24  
This Monday, this coming Monday, the next Monday? Yeah.

 **Mikyle Fourie** 59:27  
Yeah.

 **Eden Neave** 59:27  
Yes.

 **Mikyle Fourie** 59:28  
Yeah.  
So that the 22nd when is prototype.

 **Eden Neave** 59:32  
Ohh tomorrow.

 **Mikyle Fourie** 59:32  
Being submitted.

 **Ivy Chepkwony** 59:34  
17.

 **Mikyle Fourie** 59:36  
No for tomorrow, huh?

 **Ivy Chepkwony** 59:36  
Of men.  
No, no, no, no, no, no.

 **Eden Neave** 59:38  
I'm sorry.  
The game doesn't.

 **Ivy Chepkwony** 59:39  
17th of May.

 **Eden Neave** 59:41  
Whenever you say prototype, I'm like, oh, that's that's getting this one.

 **Ivy Chepkwony** 59:46  
Is due on the 17th of of May.

 **Mikyle Fourie** 59:46  
No.

 **Eden Neave** 59:47  
Not bad.

 **Mikyle Fourie** 59:49  
17th of May is a Friday, so from next week Monday we have 1/2.

 **Ivy Chepkwony** 59:52  
Yeah.

 **Mikyle Fourie** 59:56  
3-4 weeks.  
OK.

 **Ivy Chepkwony** 59:58  
Oh.

 **Mikyle Fourie** 1:00:00  
Just thinking about like, how detailed do we want to get in terms of this document that was writing on Monday in terms of the, the time, the time breakdown you know?

 **Eden Neave** 1:00:01  
We can do it.  
This.

 **Ivy Chepkwony** 1:00:13  
Umm, because I I'm I was gonna ask about that.

 **Mikyle Fourie** 1:00:15  
Like how?  
Like how detail do we think we need to do?  
Like can we just put the whole last week?  
Is documentation for all four people you know, because by the time he gets to the documentation we stage, it's gonna be all over the place.

 **Jacques Coetzee** 1:00:26  
Hmm.

 **Ivy Chepkwony** 1:00:27  
I think.

 **Mikyle Fourie** 1:00:30  
Everybody's gonna have done different parts and we're all going to have to weigh in on that document, you know?

 **Ivy Chepkwony** 1:00:37  
I think what they want to see in the in like the schedule, timetable, whatever thing is just like individual.

 **Mikyle Fourie** 1:00:43  
Umm.

 **Eden Neave** 1:00:46  
General idea.

 **Ivy Chepkwony** 1:00:48  
Milestones, if I can call it that.

 **Mikyle Fourie** 1:00:52  
Yeah, I like that idea.

 **Ivy Chepkwony** 1:00:52  
And also like fruits, mild milestones.

 **Eden Neave** 1:00:52  
Umm.

 **Mikyle Fourie** 1:00:55  
Yeah.

 **Ivy Chepkwony** 1:00:55  
So like like how we've put, you know that for example, understanding the wireframes takes one day, then we will say bye you, you're right on like the calendar Friday the what's the same Friday, 19th of April?

 **Eden Neave** 1:01:04  
Yeah.

 **Ivy Chepkwony** 1:01:14  
Why iframes understood or wireframes are complete on the 24th of April of April.  
Whatever, you know, things like that, I think that's what they want us to sort of put.

 **Mikyle Fourie** 1:01:23  
Yeah.

 **Eden Neave** 1:01:29  
So can we make our own like personal like calendar or do we?

 **Mikyle Fourie** 1:01:29  
Yeah.  
OK, I like that.

 **Ivy Chepkwony** 1:01:33  
Yes, well.

 **Eden Neave** 1:01:34  
OK OK.

 **Mikyle Fourie** 1:01:34  
In terms of that that the detail detail calendar, we can figure that out as we go pretty much.

 **Ivy Chepkwony** 1:01:41  
Yeah, but we need like a general.

 **Mikyle Fourie** 1:01:41  
But the the milestones we gotta put on the document for Monday so.

 **Ivy Chepkwony** 1:01:46  
Yeah.  
And I think we also need to have like a general sort of flow with our work.  
So let's say how many hours do we need to work for a day again or per week?

 **Mikyle Fourie** 1:01:58  
Per day because like 1020.

 **Ivy Chepkwony** 1:02:02  
Yeah.  
So then we just need to like put down that at least umm, let's say Eden on Thursdays and Tuesdays.  
You can split that up into three hours and three hours.  
So you make sure that you're like getting into a flow that every Tuesday for three hours.

 **Eden Neave** 1:02:16  
And.

 **Ivy Chepkwony** 1:02:21  
You are doing this or you're working on this sort of thing.

 **Eden Neave** 1:02:23  
Yeah, it.  
Yeah, that makes sense.

 **Jacques Coetzee** 1:02:25  
And maybe we should, rather than saying something should be due on a specific day, we just take it to four weeks and we say at the end of every week, all of this stuff has to be done.

 **Ivy Chepkwony** 1:02:26  
Does that make sense?

 **Eden Neave** 1:02:36  
That's two weeks because we did sprints for two weeks, remember?

 **Jacques Coetzee** 1:02:39  
Yeah, but splitting everything up into close parents sounds a bit.  
It's not enough.

 **Ivy Chepkwony** 1:02:47  
No, we have to do it in. In.

 **Jacques Coetzee** 1:02:47  
It's split up, you know.

 **Ivy Chepkwony** 1:02:48  
Yeah, we have to do it each week.

 **Jacques Coetzee** 1:02:50  
Be it should do one week sprints.

 **Eden Neave** 1:02:51  
OK.

 **Ivy Chepkwony** 1:02:53  
Yeah.  
Yeah, but what I'm saying, shock is not just the stuff that we have to have done by the end of the week, but sort of, you know, like how on our timetable.  
We have lectures every Monday from 11:50 sort of thing like designating times in the week where we will be working on XYZ is what I mean.

 **Mikyle Fourie** 1:03:09  
Yeah.  
In the week.

 **Jacques Coetzee** 1:03:15  
For sure.

 **Mikyle Fourie** 1:03:18  
Do you think we have to communicate that the nevan? Yeah.

 **Eden Neave** 1:03:19  
For your personal.

 **Ivy Chepkwony** 1:03:22  
Well, yeah.  
For for the personal one.  
But also like we can include that on the group calendar.  
So we're also holding each other accountable so that we know that this person will be working on this during these out.

 **Mikyle Fourie** 1:03:29  
Higher.

 **Eden Neave** 1:03:31  
Oof.

 **Ivy Chepkwony** 1:03:36  
Well, it doesn't have to be like super detailed because obviously things happen and stuff.  
But as like a general thing.

 **Eden Neave** 1:03:42  
Well, what we could also do is once we fell down our personal like documents, we can share them with each other and then just have that idea of what everyone's doing.  
You know, so then it's not like everyone's things are all on one calendar, like at once.  
Maybe because then it's less work for us.  
And if you wanna check what everyone's doing, you have access to that.  
If you guys want, it's not.

 **Ivy Chepkwony** 1:04:08  
No.

 **Eden Neave** 1:04:08  
We don't have to.

 **Ivy Chepkwony** 1:04:08  
Yeah. No.  
Yeah, I agree.  
Like we won't be detailing what everyone is doing on like the main calendar, but I just meant like the milestones and stuff and like just knowing that on Wednesdays, let's say for example, I will definitely be working on the project and I don't have to say exactly what I'm working on.

 **Eden Neave** 1:04:16  
Hmm.  
Yeah, that's.  
Umm.

 **Ivy Chepkwony** 1:04:29  
You can figure that out and what you're saying.  
And like the personal documents, but just so that we know everyone is putting in the hours.

 **Mikyle Fourie** 1:04:35  
Hmm.

 **Eden Neave** 1:04:37  
Yeah.  
And then you have give you.  
Yeah, it's a good idea, because then also we'll have to, like, communicate with each other.  
We I mean, we're gonna have to communicate a lot with how far each of us are with our tasks, because some tasks rely on them being done for the next person to move on, for instance.

 **Mikyle Fourie** 1:04:54  
That's.

 **Eden Neave** 1:04:55  
So I think having that is a good idea because we'll we'll be forced to constantly communicate as well.

 **Ivy Chepkwony** 1:04:55  
Yeah.  
Yeah.

 **Mikyle Fourie** 1:05:05  
Yeah.

 **Eden Neave** 1:05:05  
OK, cool.

 **Mikyle Fourie** 1:05:10  
OK.

 **Eden Neave** 1:05:10  
So how do you go?  
How do you guys wanna do like for the section?

 **Mikyle Fourie** 1:05:13  
I'm just.  
Umm for the document section or what do you mean?

 **Eden Neave** 1:05:22  
Well, like you guys have.  
Well, I mean, I've decided we've all decided kind of what I'm doing for the future goals.  
I don't know if you guys wanna decide or just the general idea of what you guys are doing.  
And then the thought in the documents, if you guys want to go into the documents now, I mean does not mean I'm going.

 **Mikyle Fourie** 1:05:39  
I'm just thinking about like like on Monday we have to submit these documents and the main thing there is thinking about do we have stuff to write about in your in your individual detailed design document?

 **Eden Neave** 1:06:00  
Well, I've got.

 **Mikyle Fourie** 1:06:01  
Uh.

 **Eden Neave** 1:06:02  
I've got because I've you guys have said I'm doing the quiz logic in the wireframes design.

 **Mikyle Fourie** 1:06:03  
Yeah, yeah.

 **Eden Neave** 1:06:07  
So I mean I can like advance on that.  
So I don't know if you guys wanna.  
That's, that's what I mean.  
If you guys wanna decide on that now or not.

 **Mikyle Fourie** 1:06:13  
Yeah.  
Yeah, in that case, I'm.  
I'm happy to do it now.  
I'm happy to do the that front end implementation from the wireframes and I'll speak on the the model view, a template stuff.

 **Eden Neave** 1:06:27  
Thank you.

 **Ivy Chepkwony** 1:06:35  
OK, cool.

 **Eden Neave** 1:06:35  
OK.

 **Ivy Chepkwony** 1:06:36  
Umm well, since I've done the database stuff.  
Ohh, I'll just continue with that.

 **Mikyle Fourie** 1:06:41  
And.

 **Ivy Chepkwony** 1:06:42  
I'll handle that.

 **Eden Neave** 1:06:44  
So like now with the database stuff, because mine's the logic.

 **Mikyle Fourie** 1:06:44  
All right.

 **Eden Neave** 1:06:49  
Now, we'll, Ava and Abbie, the ones like doing the logic and the coding for that.  
Or like you know what I mean?

 **Ivy Chepkwony** 1:07:00  
I think we will.

 **Mikyle Fourie** 1:07:00  
So it would be like in you you figure out like what?  
What sort of data do you need to make the system you wanna build work?

 **Eden Neave** 1:07:04  
You know.

 **Mikyle Fourie** 1:07:07  
Communicate that with Ivy and then leave it to Ivy to figure out how she builds the database to accommodate that.

 **Eden Neave** 1:07:14  
OK, OK, cool.

 **Mikyle Fourie** 1:07:16  
That's that's.  
That's a different thing, right?

 **Eden Neave** 1:07:17  
So you.

 **Mikyle Fourie** 1:07:18  
Like, I mean, we'll figure out she'll figure out how to like, format the table and everything like that.

 **Ivy Chepkwony** 1:07:22  
Yeah.

 **Eden Neave** 1:07:23  
OK.  
And then obviously, if she's like obviously a bit over, if she gets to the point where it's overworked and she's the only one coding, we can all just help her with that because at this point I'm I don't what coding am I gonna be doing?

 **Ivy Chepkwony** 1:07:33  
Yeah.

 **Mikyle Fourie** 1:07:34  
Yeah.  
Maybe not.  
Maybe you get to write to all the documentation even.

 **Eden Neave** 1:07:45  
And I show him.  
That's terrible.  
I can't do that to you.  
There's no way.

 **Ivy Chepkwony** 1:07:50  
No, you you can like.

 **Mikyle Fourie** 1:07:50  
That's OK, I mean.

 **Ivy Chepkwony** 1:07:53  
I mean, you can like help out like like you said like if someone is overworked, you can step in and assist with like a particular aspect of the clothing.  
For example, like in the security, I know you said you didn't want to do like the security, but let's say there's a particular aspect and like the hash key functions or whatever the jock is struggling with.

 **Eden Neave** 1:08:13  
Yeah.

 **Ivy Chepkwony** 1:08:16  
Or he doesn't have the time to do you can step in and do that when he does everything else in the security thing.

 **Eden Neave** 1:08:21  
OK.  
Yeah.  
Or if, for instance, yeah, or if for instance like.

 **Ivy Chepkwony** 1:08:27  
That makes sense.

 **Mikyle Fourie** 1:08:29  
Yeah.

 **Eden Neave** 1:08:30  
I've got aware when you implement the logic of the quiz and like I feel like you and are probably going to have to work more hand in hand because it's relatable.

 **Ivy Chepkwony** 1:08:41  
Yeah, it's related.

 **Eden Neave** 1:08:43  
Yeah.  
Yeah. Sorry.  
So yeah, we'll just work together then.  
Cool.

 **Ivy Chepkwony** 1:08:50  
Yeah.

 **Eden Neave** 1:08:50  
Well, that OK, no shoes.

 **Jacques Coetzee** 1:08:54  
But I guess I'm doing security then.

 **Ivy Chepkwony** 1:08:54  
And.  
Sorry, sorry.  
Shock.

 **Eden Neave** 1:09:00  
We wanna do that.

 **Ivy Chepkwony** 1:09:00  
You don't have much of a choice.

 **Jacques Coetzee** 1:09:00  
Ohh no.

 **Eden Neave** 1:09:04  
I can help you with the security if you want because I'm really not gonna be doing like I'm.  
I mean, at this point I'm not doing any coding, so if you want me to help you with that.

 **Jacques Coetzee** 1:09:14  
But once you don't cause like isn't a quiz logic, the majority of all the coding.

 **Eden Neave** 1:09:22  
But apparently obvious doing the coding part.

 **Mikyle Fourie** 1:09:25  
Invest is design.  
Umm, a lot of the quiz logic will be implemented in the views, but the views need to yeah in the database and the views the databases are in the databases and the views are very much uh integrating directly to the templates to show us the front end.

 **Ivy Chepkwony** 1:09:27  
Yeah.

 **Eden Neave** 1:09:33  
Or in the databases as well.  
Umm.

 **Mikyle Fourie** 1:09:50  
So it's a bit hard, you know, it's all crossing over.

 **Ivy Chepkwony** 1:09:50  
Yeah.

 **Jacques Coetzee** 1:09:52  
OK.

 **Ivy Chepkwony** 1:09:54  
But I think on, sorry, I think I understand what jock means.  
Like for example implementing like the timer that's that's coding that's.

 **Eden Neave** 1:10:04  
Yeah.

 **Jacques Coetzee** 1:10:05  
Yeah, and all the like checking out answers and keeping school and ending the quiz, starting the quiz.

 **Mikyle Fourie** 1:10:06  
Yeah.

 **Jacques Coetzee** 1:10:14  
Who wins all that jazz?

 **Eden Neave** 1:10:17  
OK, so I'm adding nothing.

 **Mikyle Fourie** 1:10:18  
Yeah.

 **Ivy Chepkwony** 1:10:18  
Hmm.  
No, you.

 **Eden Neave** 1:10:21  
Oh, OK, OK.

 **Ivy Chepkwony** 1:10:21  
No, that's what we're saying that you you will be doing coding in the quiz logic.

 **Eden Neave** 1:10:25  
OK, I understand.  
Understand.  
Sorry, I thought like you were gonna be doing all of that.  
So but now I understand that.  
OK.  
Thanks.  
That makes more sense.

 **Ivy Chepkwony** 1:10:36  
OK.  
So Jackie, you find with the security stuff.

 **Jacques Coetzee** 1:10:39  
I think so.  
I think security is is chill.  
Uh, the deployment is is more of the scary one that I.

 **Mikyle Fourie** 1:10:47  
Yeah.

 **Ivy Chepkwony** 1:10:48  
Hey.

 **Jacques Coetzee** 1:10:49  
Right.  
What's the do that?

 **Ivy Chepkwony** 1:10:52  
I can.  
I can help out with that.  
Maybe.

 **Eden Neave** 1:10:58  
I guess when you get to those points, we'll just be like, please help me out.

 **Mikyle Fourie** 1:11:02  
Yeah, for now I think it's.

 **Eden Neave** 1:11:03  
You know, looking for your individual documents, don't put that in your thing.

 **Jacques Coetzee** 1:11:03  
Right, right.

 **Ivy Chepkwony** 1:11:04  
Yeah.

 **Eden Neave** 1:11:09  
You know, because I might be helping any of you, but we won't include that in our documents yet.

 **Ivy Chepkwony** 1:11:16  
Yeah.

 **Mikyle Fourie** 1:11:17  
The thing is like these are first first round documents.  
They they are subject to change over time, right?

 **Eden Neave** 1:11:21  
Yeah.

 **Mikyle Fourie** 1:11:22  
And so like you can put like this is how I anticipate the deployment to go.  
But in future maybe it changes.

 **Eden Neave** 1:11:29  
Yeah.

 **Mikyle Fourie** 1:11:30  
Maybe other members work with me.  
Who knows.

 **Ivy Chepkwony** 1:11:34  
Mm-hmm.

 **Eden Neave** 1:11:36  
Yeah, OK, cool.

 **Ivy Chepkwony** 1:11:38  
And then, Michael, what did she say you're doing again?

 **Mikyle Fourie** 1:11:38  
Cool.

 **Eden Neave** 1:11:38  
Cool, cool.

 **Mikyle Fourie** 1:11:42  
So I'm going to be pulling all that logic.  
Uh.  
From and that evens doing and then translating it into all the UI.

 **Ivy Chepkwony** 1:11:51  
What you said?  
OK.

 **Eden Neave** 1:11:56  
And then obviously.

 **Ivy Chepkwony** 1:11:56  
And then the testing.

 **Jacques Coetzee** 1:11:56  
My then also doing the authentication.

 **Mikyle Fourie** 1:11:57  
Yeah.

 **Ivy Chepkwony** 1:12:00  
Yeah, cause it's security and other dictation go together.

 **Mikyle Fourie** 1:12:01  
Say again?

 **Jacques Coetzee** 1:12:04  
Alright, alright, alright.

 **Eden Neave** 1:12:07  
I mean like if say for instance you get that done pretty like quickly say for instance because that shouldn't take Clark as long as doing the tables for the databases for instance.

 **Mikyle Fourie** 1:12:09  
Yeah.

 **Eden Neave** 1:12:21  
So if you do get that done and then you are available again, we can just ask for help.

 **Mikyle Fourie** 1:12:24  
To visualize, yeah.

 **Ivy Chepkwony** 1:12:29  
Yeah.

 **Jacques Coetzee** 1:12:29  
Ohh.

 **Mikyle Fourie** 1:12:30  
100 percent 100%.

 **Ivy Chepkwony** 1:12:31  
Hmm.

 **Eden Neave** 1:12:33  
OK, cool.

 **Ivy Chepkwony** 1:12:33  
Who's doing the testing?

 **Eden Neave** 1:12:37  
What do you mean testing?

 **Ivy Chepkwony** 1:12:38  
Or explaining the testing in the documentation.

 **Mikyle Fourie** 1:12:38  
Uh.  
Like in our individual documents.

 **Eden Neave** 1:12:42  
How I should we look at the documents now?

 **Ivy Chepkwony** 1:12:44  
Does it have to be?

 **Mikyle Fourie** 1:12:47  
I don't think we need to touch on testing in anyone's individual document, but we can talk about it in the main proposal document.

 **Eden Neave** 1:12:48  
Because I thought.

 **Ivy Chepkwony** 1:12:52  
OK.  
OK, OK.

 **Jacques Coetzee** 1:12:56  
Umm.

 **Ivy Chepkwony** 1:12:56  
So whoever is doing that in the main.

 **Mikyle Fourie** 1:12:57  
And we can kind of say like.  
Do you?  
Do you guys think we write our own unit test for our own sections?

 **Eden Neave** 1:13:03  
Thank right.

 **Mikyle Fourie** 1:13:08  
Umm.  
And my test our own sections individually when they are like pretty much done and then also do like pure review like through each other at certain milestones.

 **Jacques Coetzee** 1:13:09  
I think.  
I think that makes the most sense because like we understand our code better than other the like anyone else, right?

 **Ivy Chepkwony** 1:13:18  
Yeah.

 **Mikyle Fourie** 1:13:22  
Yeah.

 **Eden Neave** 1:13:23  
So.

 **Jacques Coetzee** 1:13:24  
So we know where the flows are almost and then someone can just double check each of us.

 **Mikyle Fourie** 1:13:25  
Yeah.

 **Ivy Chepkwony** 1:13:31  
Yeah, to make sure that the unit tests so.

 **Mikyle Fourie** 1:13:31  
Yeah.  
So maybe in the in the project plan, when we're talking about group management, we're talking about each person is kind of doing these sections, but then we have like a separate heading for testing.

 **Jacques Coetzee** 1:13:33  
Yeah.

 **Ivy Chepkwony** 1:13:38  
Yeah.

 **Mikyle Fourie** 1:13:43  
And then we say like testing is the responsibility of each individual and their section.  
However, maybe at the end of the two weeks and then the 4th week, we do like a cross check where each other Member checks each other Member's part just to get a fresh perspective.  
Maybe catch something we missed, you know.

 **Jacques Coetzee** 1:14:05  
I think the test the security we should run a hackathon and just let people break our sites.

 **Ivy Chepkwony** 1:14:05  
Yeah.

 **Mikyle Fourie** 1:14:11  
Uh.

 **Ivy Chepkwony** 1:14:13  
OK.

 **Jacques Coetzee** 1:14:14  
I I'm not kidding.

 **Ivy Chepkwony** 1:14:17  
I mean.  
How would we test this security actually aside from like?

 **Jacques Coetzee** 1:14:25  
That we could test like the inputs on the login screen and like data validate that, but I'm not really sure for the actual hashing and HTTPS.

 **Ivy Chepkwony** 1:14:25  
I don't know.

 **Mikyle Fourie** 1:14:29  
Yeah.

 **Ivy Chepkwony** 1:14:29  
No.  
Yeah, but like.  
How do you test that?

 **Jacques Coetzee** 1:14:35  
Uh.

 **Ivy Chepkwony** 1:14:36  
Now that you mentioned it.

 **Jacques Coetzee** 1:14:38  
I mean, if you if you if you open the website and there's a little lock icon at the top, then the HTTPS works.

 **Mikyle Fourie** 1:14:39  
I'll figure it out.

 **Ivy Chepkwony** 1:14:43  
It's.

 **Mikyle Fourie** 1:14:46  
That's that's not gonna say secure.  
That's my.  
That's my unit test.  
Is there an S in in your RL?

 **Jacques Coetzee** 1:14:50  
Yeah.  
Yeah, probe says it's good.

 **Ivy Chepkwony** 1:14:51  
The little locked on the side.

 **Jacques Coetzee** 1:14:53  
So I think it's good.

 **Ivy Chepkwony** 1:14:55  
OK.  
OK, cool.  
OK. Umm.

 **Eden Neave** 1:15:03  
So for the documents, are we just sticking to what we had before like in terms of I'm doing the risks and the financial plan?

 **Ivy Chepkwony** 1:15:12  
Should we go over that?  
I think it was fine, but if there was something that needed to change.  
I don't know.

 **Mikyle Fourie** 1:15:22  
Yeah, I'm.  
I'm going to add myself to time management with you, Ivy.

 **Ivy Chepkwony** 1:15:28  
OK.

 **Mikyle Fourie** 1:15:29  
Maybe we can collaborate, because I think the time management can be as complicated as we want it to be or as simple as we want it to be, you know.

 **Ivy Chepkwony** 1:15:36  
Yeah.  
Yeah.

 **Mikyle Fourie** 1:15:41  
We can.  
We can.  
We can help check each other.

 **Eden Neave** 1:15:43  
Umm.

 **Ivy Chepkwony** 1:15:45  
No, no.  
We can, yeah.

 **Jacques Coetzee** 1:15:48  
But for technologies used are we just gonna like, individually add stuff if we plan on using it and explain why?

 **Mikyle Fourie** 1:15:48  
OK. Yeah.  
So then.

 **Ivy Chepkwony** 1:15:56  
Yeah.

 **Mikyle Fourie** 1:15:57  
Yeah, that's why we're all assigned to that one.

 **Jacques Coetzee** 1:15:57  
Yeah.

 **Mikyle Fourie** 1:15:59  
So you'll see like in one of the under the sub task undertaken, analogies used as real time server action.  
I put that there and then I put a comment all the way at the end I said about a thing called web sockets.  
Umm Websockets is like a package that is built to do real time bidirectional communication for these types of projects.

 **Eden Neave** 1:16:14  
Umm.  
Yeah.

 **Mikyle Fourie** 1:16:20  
So I put it there because that's it.  
That's what that's a technology I think we're gonna end up using in, especially in the front end.

 **Jacques Coetzee** 1:16:27  
Are there?

 **Mikyle Fourie** 1:16:29  
So if you while you're figuring out your section and doing your individual document, if you catch something like, oh, we're gonna need this, mention it, you know.

 **Ivy Chepkwony** 1:16:40  
Hmm.

 **Jacques Coetzee** 1:16:41  
I would just like to say for the record that I think we're way ahead of the other group, even though it feels like we're pretty behind.

 **Ivy Chepkwony** 1:16:48  
Really.

 **Eden Neave** 1:16:49  
Yeah, it feels like you, baby.

 **Mikyle Fourie** 1:16:49  
That's what here.

 **Jacques Coetzee** 1:16:50  
Yeah, like, there's so they don't even have, like, take up or something.  
They're just, they're just like using a Google Doc to write everything down, and then they become.

 **Eden Neave** 1:17:01  
You know what we should probably do is have a latex document for all of us now to like link it all together.

 **Mikyle Fourie** 1:17:02  
Heavy.  
OK.

 **Ivy Chepkwony** 1:17:09  
Or latex. Gosh.

 **Jacques Coetzee** 1:17:09  
Yeah, yeah, that.

 **Mikyle Fourie** 1:17:10  
Yeah.

 **Eden Neave** 1:17:12  
That's for the documents.

 **Mikyle Fourie** 1:17:13  
Did it.

 **Eden Neave** 1:17:13  
You can have to.

 **Mikyle Fourie** 1:17:16  
Yeah.

 **Ivy Chepkwony** 1:17:17  
Yeah.  
No, you're right.

 **Jacques Coetzee** 1:17:18  
But I think it's it's wise to to type it in Word 1st and then while we sort out the the latex formatting.

 **Ivy Chepkwony** 1:17:23  
Just put the text. Mm-hmm.

 **Eden Neave** 1:17:24  
I know.  
I just agree.  
Rather, just go straight in.

 **Ivy Chepkwony** 1:17:28  
Really.

 **Jacques Coetzee** 1:17:29  
That's first.

 **Eden Neave** 1:17:30  
No, we have.

 **Ivy Chepkwony** 1:17:33  
You're braver than me.  
Sorry, I just I'd rather do.

 **Mikyle Fourie** 1:17:38  
No, I said that.

 **Eden Neave** 1:17:38  
We get along well.  
We can make this documents.

 **Ivy Chepkwony** 1:17:40  
I'd rather do it in Word and copy paste and then sort out the formatting that week, but.

 **Mikyle Fourie** 1:17:45  
Uh, yeah.

 **Ivy Chepkwony** 1:17:48  
But if you're ready to go straight into latex, that that's cool as well.

 **Eden Neave** 1:17:48  
Yeah.

 **Mikyle Fourie** 1:17:48  
100.

 **Eden Neave** 1:17:52  
I mean, well, we only need to bring personal things anyway.

 **Mikyle Fourie** 1:17:52  
I I tried that and I wanted to kill myself in terrible.

 **Jacques Coetzee** 1:17:53  
Uber.

 **Eden Neave** 1:17:58  
We are going to be doing personal like sections anyways, so it doesn't matter.

 **Ivy Chepkwony** 1:17:59  
What?

 **Eden Neave** 1:18:02  
Like if I starting at and you anything else.

 **Mikyle Fourie** 1:18:03  
Yeah, it'll end up a lot of copy and pasting anyway.

 **Ivy Chepkwony** 1:18:07  
Umm, also.

 **Eden Neave** 1:18:09  
So how?

 **Ivy Chepkwony** 1:18:11  
Sorry.

 **Eden Neave** 1:18:13  
Now you can go. Sorry.

 **Ivy Chepkwony** 1:18:15  
No, I just wanted to ask on the business.  
While the requirements stock just for the key stakeholders, now that we've discussed.

 **Mikyle Fourie** 1:18:21  
Umm.

 **Ivy Chepkwony** 1:18:26  
What everyone is doing now, do the roles still remain the same as what we had said last time or would I have to sort of word it differently, like the front end, back end databases, networking.

 **Eden Neave** 1:18:39  
Yeah, I think that.

 **Mikyle Fourie** 1:18:40  
Umm.  
I I now I think it's it's front end.

 **Jacques Coetzee** 1:18:51  
Mine would probably be networking and security.

 **Mikyle Fourie** 1:18:52  
Uh.  
Yeah, networking security framework and then I I I'm doing front end now.

 **Ivy Chepkwony** 1:18:55  
OK.

 **Mikyle Fourie** 1:19:00  
You're still doing databases in's doing back end and then with the stakeholders isn't just us either.  
Stakeholders is also the customer, the company, that kind of thing as well, yes.

 **Ivy Chepkwony** 1:19:08  
No.  
Yeah, no.  
Yeah, but I just mentioned terms of the team.

 **Mikyle Fourie** 1:19:14  
Yeah, that's us.

 **Ivy Chepkwony** 1:19:14  
Like when I'm when I'm like when I'm writing the roles and stopped.

 **Mikyle Fourie** 1:19:20  
Yeah.

 **Eden Neave** 1:19:21  
Yeah.

 **Ivy Chepkwony** 1:19:22  
We'd what is Eaton doing?

 **Jacques Coetzee** 1:19:25  
Back end.

 **Mikyle Fourie** 1:19:25  
Back in.

 **Eden Neave** 1:19:27  
Yeah, quiz logic kind of thing.

 **Ivy Chepkwony** 1:19:29  
OK. Yeah.

 **Mikyle Fourie** 1:19:32  
And then in like brackets in like 3 fun size smaller.  
Also wireframe designer.

 **Eden Neave** 1:19:40  
Yeah.

 **Mikyle Fourie** 1:19:42  
It's.  
OK.  
Even if we were 10 minutes past when you had mentioned you needed to go.

 **Eden Neave** 1:19:52  
Yeah, I know this is fun.  
No stress.

 **Jacques Coetzee** 1:19:53  
Eden's actually on her phone in the car already.

 **Eden Neave** 1:19:57  
Yeah, I've got my love.

 **Mikyle Fourie** 1:19:58  
Oh wow.

 **Eden Neave** 1:19:59  
Yeah, you know.

 **Jacques Coetzee** 1:20:01  
That.

 **Mikyle Fourie** 1:20:01  
You know, you know, I've done that before.  
I I regularly have like meetings for apps at like 5:30 to 7:30, but I have gymnastics at 7.

 **Eden Neave** 1:20:05  
That's good.  
I'm not worried.

 **Mikyle Fourie** 1:20:16  
So like said like, I'm often like I think.

 **Eden Neave** 1:20:17  
On the balls, they like watching the ohh.

 **Mikyle Fourie** 1:20:22  
One time I walked into the gym and I'm like sitting on like a mat while everybody else is warming up and I'm just like in the meeting in the meeting, in the meeting, God dammit, all of us.

 **Jacques Coetzee** 1:20:22  
But.

 **Eden Neave** 1:20:32  
My gosh.

 **Mikyle Fourie** 1:20:34  
Yeah, yeah.

 **Eden Neave** 1:20:34  
OK, cool.  
Anyways thanks guys, that was good.

 **Mikyle Fourie** 1:20:37  
Umm.  
Yeah, productive.  
I love that.  
Good luck for everybody.

 **Eden Neave** 1:20:43  
Yeah.

 **Mikyle Fourie** 1:20:43  
For prototype tomorrow games I'm prototype.

 **Jacques Coetzee** 1:20:45  
Yeah, this is gonna be a long night.

 **Eden Neave** 1:20:46  
Yeah.

 **Ivy Chepkwony** 1:20:48  
Oh, no, no.

 **Jacques Coetzee** 1:20:48  
I I have already officially cancelled all my classes tomorrow morning.

 **Mikyle Fourie** 1:20:48  
Yeah, me too.  
Myself as well.

 **Jacques Coetzee** 1:20:53  
A different treatment.

 **Ivy Chepkwony** 1:20:55  
That's what I did today.  
I I didn't go to IAM.

 **Eden Neave** 1:20:58  
Also didn't.

 **Jacques Coetzee** 1:20:58  
Oh yeah, it was actually a good lecture though, like one of the rare ones she told us JavaScript and you believe.

 **Mikyle Fourie** 1:21:02  
And.

 **Ivy Chepkwony** 1:21:03  
Hectic.

 **Eden Neave** 1:21:05  
Anybody I know?

 **Mikyle Fourie** 1:21:06  
Ohh my goodness, if I'm if I'm gay.

 **Ivy Chepkwony** 1:21:07  
Ohh well, I just decided I'd go through the videos.

 **Mikyle Fourie** 1:21:11  
Yeah.

 **Jacques Coetzee** 1:21:11  
Yeah.

 **Eden Neave** 1:21:12  
Yeah.

 **Mikyle Fourie** 1:21:12  
Did Andrew updating you guys this year?

 **Jacques Coetzee** 1:21:16  
Who?

 **Mikyle Fourie** 1:21:17  
Andre.

 **Jacques Coetzee** 1:21:19  
No, this is Hanley.

 **Mikyle Fourie** 1:21:21  
Nah, honey is like the is the the that causes main lady.  
But then last year there was also this guy named Andrew.  
He kind of looks like me.

 **Jacques Coetzee** 1:21:29  
Nicole, you know how our faculty got, like, 7000 budget cuts right now.

 **Mikyle Fourie** 1:21:32  
Yeah.  
Yeah, that's fair enough.

 **Jacques Coetzee** 1:21:34  
You want us to have more than one lecturer?

 **Mikyle Fourie** 1:21:34  
He seems like a guest guy.  
He was really chilled, OK?

 **Eden Neave** 1:21:38  
OK guys, I'm gonna go. Sorry.

 **Mikyle Fourie** 1:21:39  
As unfortunate, because he was really tired and he told really well, but anyway.

 **Ivy Chepkwony** 1:21:41  
OK.  
Bye Eden.

 **Jacques Coetzee** 1:21:42  
OK.

 **Eden Neave** 1:21:43  
Sorry.

 **Mikyle Fourie** 1:21:44  
Yeah.  
No, it's OK.

 **Jacques Coetzee** 1:21:45  
I of the are we done?

 **Ivy Chepkwony** 1:21:45  
No worries.

 **Mikyle Fourie** 1:21:45  
We should go this years.

 **Ivy Chepkwony** 1:21:46  
I I just wanna quickly ask for I am Jack because you said you were in the in the lecture.

 **Eden Neave** 1:21:47  
OK.

 **Mikyle Fourie** 1:21:47  
Enjoy battle.

 **Jacques Coetzee** 1:21:50  
Yeah.

 **Mikyle Fourie** 1:21:53  
Yeah.

 **Ivy Chepkwony** 1:21:53  
What the videos be sufficient?

 **Jacques Coetzee** 1:21:55  
I haven't watched the video, but it was basically she just showed us.

 **Ivy Chepkwony** 1:21:57  
Ah, OK.

 **Mikyle Fourie** 1:21:59  
I think the videos are by Andre.

 **Jacques Coetzee** 1:22:02  
No, the videos, Andre, it's it's it's a husband and lucky I don't think his name is Andre.

 **Ivy Chepkwony** 1:22:02  
Yeah, they are, aren't they?

 **Mikyle Fourie** 1:22:09  
Uh.

 **Jacques Coetzee** 1:22:11  
Unless there's video is Andre.

 **Mikyle Fourie** 1:22:11  
How crazy and it could be but.  
Damn you get to meet, quote unquote meat. Her husband.  
Very cool.

 **Jacques Coetzee** 1:22:22  
Yeah, he worked for Google anyway.  
Ivy, the lecture.

 **Ivy Chepkwony** 1:22:26  
Yeah.

 **Jacques Coetzee** 1:22:26  
She just showed us how to, you know, the NAV bar that we have on every page just to use JavaScript so that you like type it once and then it's on all the pages and it's like dynamic based on on which page it is.

 **Ivy Chepkwony** 1:22:30  
Yeah.  
OK.

 **Jacques Coetzee** 1:22:44  
So if that's in the video, then you'll sort it.  
If it's not, then I can show you.

 **Ivy Chepkwony** 1:22:46  
I'm sure it is, though I'm sure it was cause the videos were of like the lectures previous lectures from the previous years, so it's probably the same thing.

 **Jacques Coetzee** 1:22:54  
OK.  
Poo. Poo poo.

 **Ivy Chepkwony** 1:22:57  
I just wanted to know if it was like we were doing other stuff besides JavaScript.

 **Jacques Coetzee** 1:22:57  
Poo poo.

 **Mikyle Fourie** 1:22:58  
Umm.

 **Jacques Coetzee** 1:23:04  
Yeah.  
No, that's it.  
That's all we did.

 **Ivy Chepkwony** 1:23:05  
OK, cool.  
And then just Michael, can I still put you as the project manager in terms of, OK.

 **Mikyle Fourie** 1:23:09  
Umm.  
Yeah, I'm happy.  
You put like A and even the other roles.

 **Ivy Chepkwony** 1:23:17  
OK, cool.

 **Mikyle Fourie** 1:23:20  
You can put them instead of just saying like database designer, front end designer, put them as like lead that because that kind of opens up the possibility that other people help, yeah.

 **Ivy Chepkwony** 1:23:25  
Yeah.  
Yeah.

 **Jacques Coetzee** 1:23:32  
Yeah, we should also probably have someone that takes these transcripts and summarizes them.

 **Ivy Chepkwony** 1:23:40  
Like a meeting minutes.

 **Jacques Coetzee** 1:23:41  
And yeah, and give them that title from the start.

 **Mikyle Fourie** 1:23:41  
Yeah.  
I think you might do it in the medically.  
We'll see.

 **Ivy Chepkwony** 1:23:48  
Sorry.

 **Mikyle Fourie** 1:23:49  
I think it might do it automatically.  
We'll see.

 **Ivy Chepkwony** 1:23:52  
No, it does.  
But like we, we've got it like you know.

 **Jacques Coetzee** 1:23:56  
Corrected because I also when I said cool, cool, cool.  
It thought I said.  
Said coocoo.  
So we can't just put that directly.

 **Ivy Chepkwony** 1:24:01  
Yeah.

 **Mikyle Fourie** 1:24:02  
Uh.

 **Ivy Chepkwony** 1:24:04  
We have to like edit it and go through each transcript to make sure it's it's proper.

 **Jacques Coetzee** 1:24:10  
Yeah.

 **Mikyle Fourie** 1:24:11  
Yeah. OK.  
Well, let's break for today.  
That's a that's an off to tomorrow problem.

 **Jacques Coetzee** 1:24:18  
Right.

 **Ivy Chepkwony** 1:24:21  
Yeah, let's get the prototypes done for tomorrow, and then we'll if you'll think about everything else.

 **Mikyle Fourie** 1:24:25  
Yeah.  
Let me let me start.  
Let me start that.

 **Jacques Coetzee** 1:24:30  
Alright, good luck everybody.

 **Mikyle Fourie** 1:24:31  
Good luck to you.

 **Ivy Chepkwony** 1:24:32  
Yeah.  
Bye guys.

 **Mikyle Fourie** 1:24:35  
Just yes.

 **Jacques Coetzee** 1:24:35  
Bye.