**Arrivals**

Tom Methven: On Time – 10:00

Cale Clark: On Time – 10:00

Jake Paterson: On Time – 10:00

Alexander Wickham: On Time – 10:00

Scott Valentine: On Time – 10:10

Kyle Dick: N/A

Andrew McBain: N/A

Meeting began at 10:15

**Apologies**

Andrew McBain: Other meeting

Kyle Dick: Ill

**Last Week Actions**

Confirm backend prisma database schema. **Scott**

Look to combining the backend account system (E1/E2) with kyles email dist System. **Kyle**

Discuss WhatsApp responses when they are sent back **Andrew**

Check if Prisma connection is serialised on generation, and how it can be set up in a way so that it won’t get pushed to GitLab by developers. **Cale**

Continue investigation into hosting options. **Cale**

Complete task specification A1. **Scott**

Start work on task specification B1. **Jake**

Start work on E1 (Creating login system). **Xander**

Start work on E2 (Creating account creating system). **Andrew**

Finalise database changes. **Xander**

Database has been checked and is ready for backend. Charger type changed to wattage in schema. Ask the sustainability team if there is anything else to add to the application. Main settings should be configurable from the administration portal. The sustainability team would be a good person to give administration access.

Nodemailer can be used to send emails from gmail. Still needs to be combined with backend system. Node packages exist that may already have JSON webtoken and sign in functionality, but general emails would still be required for the system (which need to have their own implementation, probably with nodemailer). There will be things that need to be dropped from requirements, but maybe talk to client before dropping security/privacy features such as hosting the email system on gmail.

We received 9 responses from the WhatsApp group. Some people only want fast chargers, but others are fine with slower chargers.

Make sure that https works because some browsers may not support http requests. Make sure that database password is not stored in plaintext. Most secure password systems are built for Kubernetes and Docker Swarm. Will be awkward to maintain, because the maintainer will have to enter passwords all of the time (whenever the system restarts or is migrated). This should be detailed in the user manual.

More work has been done on A1 and A2. For A2, the charger info menu has been created. Different parts of the UI are being designed to be reused. Progress has been made on the charger page. Scott showed UI demo of charger page. Colour scheme has been changed to blue. Tom suggested adding a secondary indicator to which chargers are available. ChartJS will be used to add donut chart to charger page. Some UI elements need to be adjusted for scalability. Front end is still using dummy data. Tom questioned whether it is important to have information on exactly how many chargers are available at each location. It may be better to move this information to the donut charts, we still need to decide on the exact design of that system.

Admin site is still a work in progress. It is in 3 parts: Adding/removing new chargers (this is implemented with dummy data), the dashboard which must be done last and the console which requires the backend to work. The dashboard requires the API to be at least partially implemented. Tom said it is important to discuss any backend tasks that are blocking frontend progress. Scott showed a quick demo of the admin portal. It has been left quite late to make the connection between the frontend and the backend, so we need to resolve it as soon as possible. We may need to move more people into the backend to make progress as soon as possible.

The D1 has not yet been moderated.

The database is complete enough to be used for initial backend development. We need to check with select commands that the Queue table compound key is formatted correctly. We also need to test that the database schema is compatible with the backend. There are a few things that we know might need to be changed (e.g. latitude and longitude stored as strings). Make sure to specify why decisions such as database datatypes were made in the final report. It may be best to change latitude and longitude from varchar to a decimal (5-6 decimal places).

**Next Week’s Actions**

Check February 21st minutes – Xander

Complete task specification A2 - Scott

Discuss with Andrew what is required to complete E1 and E2 - Xander

Get a link from frontend to backend working and tested (preferably in production) - Jake, Cale

Xander is doing minutes next week