

# Individual Weekly Report

Name: Josh Werner

Team: Bray IIoT Smart Solutions

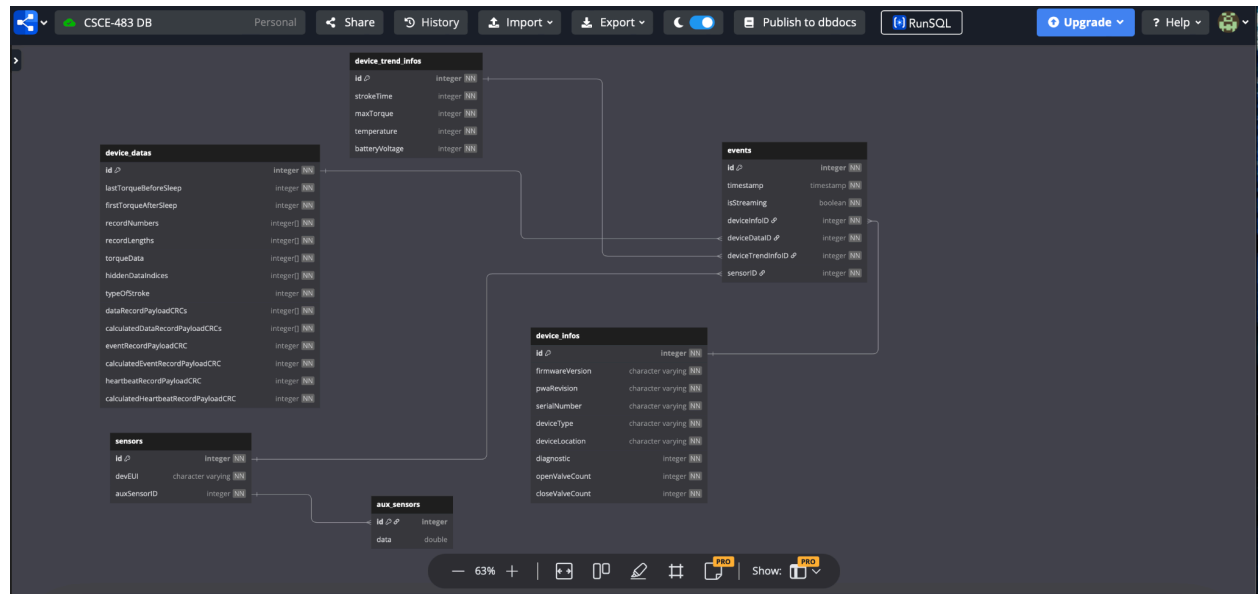
Date: 04/07/2025

## Current Status

1. What did you **personally** work on this past week?

Task	Status	Time Spent
Re-designing our backend (Again :))	Completed	1hr
Implementing our new backend models	Completed	1hr
Writing backend API calls	In Progress	2hr

Include **screenshots/graphics** to illustrate what you did this past week:



```

class AuxSensorData(Base):
    """
    Auxiliary sensor data entity containing datapoints.
    """

    __tablename__ = "aux_sensors_data"

    id: Mapped[int] = mapped_column(primary_key=True)

    data: Mapped[float] = mapped_column(Double, nullable=True)

    sensor: Mapped["Sensor"] = relationship(back_populates="aux_sensor_data")

```

2. What problems did you run into? What is your plan for them?  
Our conduit got factory reset as well as got turned back a version out of nowhere. This was a big setback after finally figuring out the connection to and from this device. Towards the end of last week we think we fixed the device but we have still yet to figure it out. This is an integral component of our project and it is something we are putting lots of effort into fixing.
3. What is the current overall project status from your perspective?  
The firmware is looking for the most part completed, just a bit of cleaning necessary. The web-app is coming along but we need to do integration testing as well as unit testing. Given this, the project is likely to be completed by the project deadlines. However, at the current moment we are not finished.
4. How is your team functioning from your perspective?  
As the time gets closer to the due date, the team is working harder and more effectively. We have made incredible progress due to the whole team taking initiative and working together.
5. What new ideas did you have or skills did you develop this week?  
I worked on improving my abilities within flask and writing backend models and API calls.
6. Who was your most awesome team member this week and why?  
Aysen De La Cruz, I think Aysen is committing a lot of effort to this project that makes him a standout member of this team. He has been consistently working outside of class hours and making significant contributions by being persistent.

### Plans for Next Week

What are you going to work on next week?

We need to ideally finish this project this week. This includes integration of MQTT and firmware as well as finalizing updating the frontend and backend.