Individual Weekly Report

Name: Abdiel Rivera
Team: Bray IIoT Smart Solutions
Date: 2/10/2025

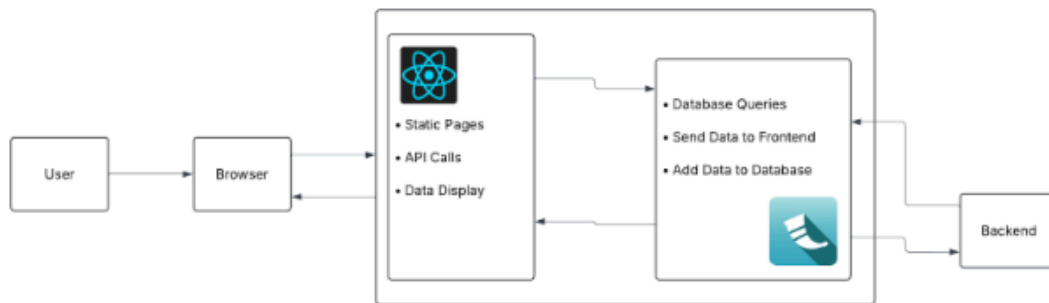## Current Status

1. What did you **personally** work on this past week?
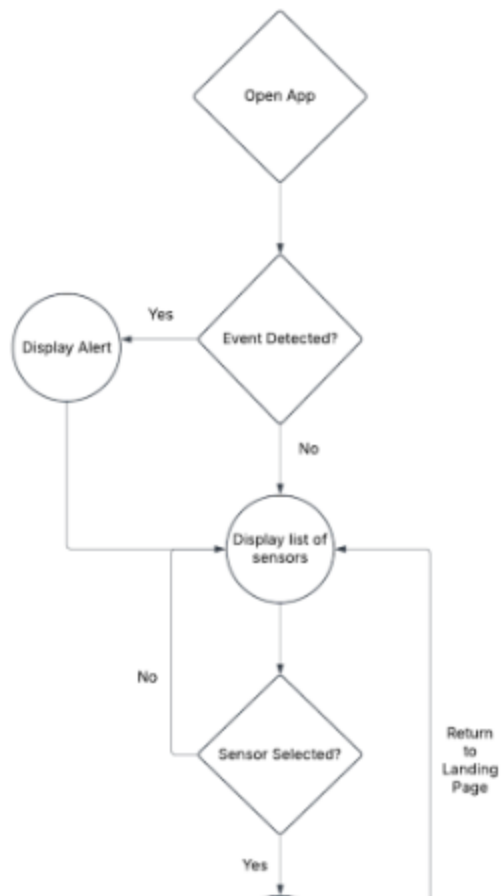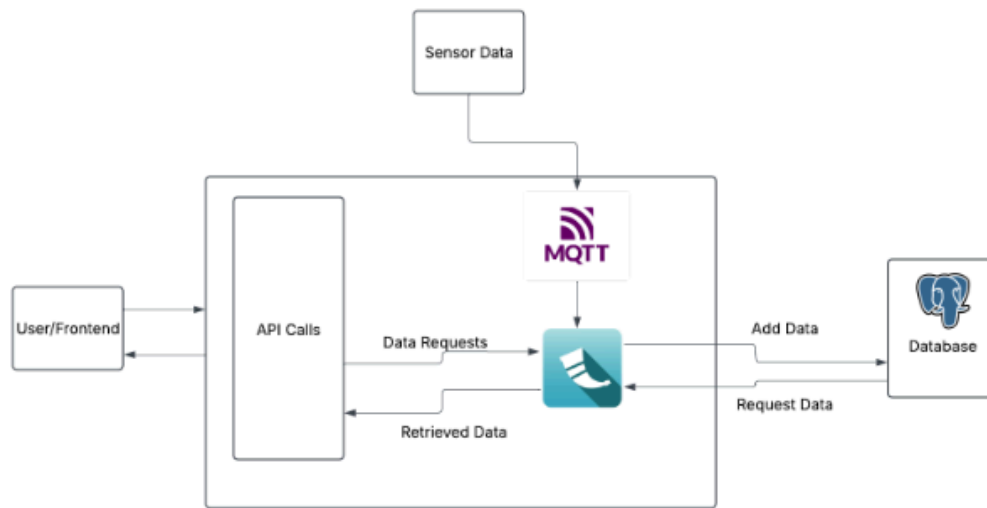
Task	Status	Time Spent
Leveled Diagrams	completed	1 hr
State Diagram	completed	1 hr

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

Fig 7. Level 0 Diagram

Sensor Data

```
Sensor Data
     │
     ▼
┌──────────────────────────────────────────┐
│  ┌──────────┐        MQTT                 │
│  │          │                             │
│  │          │         │                   │
│  │          │         ▼                   │
│  │          │  Data Requests  ┌────┐      │
│  │ API      │ ──────────────▶ │    │      │
│  │ Calls    │                 │    │──────┼──▶ Add Data ──▶ Database
│  │          │ ◀────────────── │    │ ◀────┼── Request Data
│  │          │  Retrieved Data └────┘      │
│  └──────────┘                             │
└──────────────────────────────────────────┘
```

User/Frontend ──▶ API Calls

Add Data ──▶ Database

Request Data

```
        ◆ Open App ◆
              │
              ▼
   Yes   ◆ Event Detected? ◆
  ◀────── 
Display Alert        │ No
   │                 ▼
   │          ○ Display list of
   │            sensors  ○ ◀──────┐
   │                 │            │
   └──────────▶      ▼            │ Return
          No  ◆ Sensor Selected? ◆│  to
   ◀──────────                    │ Landing
                     │ Yes        │  Page
                     ▼            │
```

2. What problems did you run into? What is your plan for them?

One problem I keep running into is just a lack of information. We only recently got in contact with Bray and while it cleared up a lot of misconceptions we had about the project, most of what we currently know about this project we've had to dig up from other sources

3. What is the current overall project status from your perspective?

So far not much progress has been made on our project, but once we sign Bray's NDA we will finally gain access to the hardware and software which will make progress much easier.

4. How is your team functioning from your perspective?

The team is working quite well together, despite the unfortunate circumstances, we have done our best to minimize the damages by planning as much as we can.

5. What new ideas did you have or skills did you develop this week?

After learning more about the scope of this project, it gave me more ideas about what the implementation of the final product would look like.

6. Who was your most awesome team member this week and why?

Matthew was the most awesome for taking the lead on the meeting with Bray and finally getting most of the information we desperately needed.

Plans for Next Week

What are you going to work on this next week?

I plan on continuing my work on the project report and setting up my environment to be able to work on the project itself.