

Sprint End Report

Sprint: S3

Sprint Dates: 27/10/2025 – 11/11/2025

Sprint Goal: Prototype the user interface and implement the first version of the backend to expose machine-state data.

Product Owner: Joaquin Ordieres

Scrum Master: G.Muller

Team Members: Sandini Suraweera, Léo Marquant, Auxence Letellier, Jairo Paez Leal, Lorenzo Niola, Hawazen Hawalah, Tim Haubner, Anna Gyllerup, Tora Fredheim, Gabrielle Muller

1. Sprint Review Meeting Details

Date of Meeting	11/11/2025
Start Time	14:30
End Time	15:00
Duration	00:30
Location / Mode	In-person / Online
Participants	All team members

2. Sprint Review (Demonstration of Increment & Feedback)

Increment / Feature	Description	Demo Status (Done/Partial)	Stakeholder Feedback	Action Items/Owner
Feature 1 – Interface mockup	Created a visual mockup, followed by a functional Streamlit prototype including multi-tab navigation, KPIs, charts, machine & date filters, and demo data.	Done	Clear and visual.	Connect the interface to the backend with real data. (Owner: UI/UX + backend Team)
Feature 2 – Backend structure + 1st requirement	Initial Python backend: PostgreSQL connection, first API route returning total hours in Operating / Intermediate / Idle states per machine in JSON format.	Partial	Data format is correct, but responses are too slow.	Add functionalities related to the other requirements, improve the speed/performance (Owner: backend team)

3. Sprint Retrospective (Team Reflection & Improvements)

Category	Observations	What Went Well	What Can Be Improved	Action Items / Owner
Process	Busy sprint, but objectives mostly achieved.	Results of this sprint will help us to structure the whole final tool.	Visual mockup arrived late → limited feedback before Streamlit development.	/
Communication	Noticeable improvement since previous sprints.	Good backend–frontend alignment.	/	/
Tools / Environment	Streamlit setup and Git repository well structured.	API/DB integration ready for next sprint.	/	/

4. Summary & Next Steps

- **Key Takeaways:**

- The mockup now provides a realistic interactive interface for end-users.
- The backend begins to satisfy the first requirement (state machine hours aggregation).

- **Improvements for Next Sprint:**

- Extend the backend.
- Connect Streamlit to the backend for real-time data display.
- Add endpoints for program execution, energy consumption and alerts.

- **Additional Notes / Decisions:**