

Sprint End Report

Sprint: S1

Sprint Dates: 29/09/2025 – 12/10/2025

Sprint Goal: : Define interface requirements, implement the first requirement — “display the machine’s operational status” — on the data layer, and initiate backend structure.

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	13/10/2025
Start Time	14:30
End Time	15:00
Duration	00:30
Location / Mode	In-person / Online
Participants	Team members

2. Sprint Review (Demonstration of Increment & Feedback)

Increment / Feature	Description	Demo Status (Done/Partial)	Stakeholder Feedback	Action Items /Owner
Feature 1 – Finding Relevant Day	First method implemented: selecting the day in the database with the highest number of records to represent activity. Second Implemented method: grouping all days by activity level (number of records) into 10 deciles, selecting one representative day per group.	Done	First approach is simple and functional but may not fully capture typical machine behavior. Second approach considered robust and representative.	
Feature 2– Machine Operational	Initial exploration of machine working/idle detection. Proposal	Partial	Promising results, but limited robustness, recommended to test	Develop and evaluate a new proposal in

State Detection (Data Layer)	tested using six key variables with a dynamic threshold (state = working if > 3 variables changed).		alternative methods with more variables and dynamic time windows.	Sprint 2. (Owner: Data team)
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3. Sprint Retrospective (Team Reflection & Improvements)

Category	Observations	What Went Well	What Can Be Improved	Action Items / Owner
Process	Focus on exploration data analysis.	Clear progress on first functional tests.	Start Working on backend and interface at the same time	Think about the structure of the interface (Owner: UI/UX team) Get a better understating of what is expected from the backend team (Owner: Backend team)
Communication	Good internal collaboration within the data subteam.	Frequent updates through WhatsApp group and informal meetings.	Limited cross-team sync (interface/backend/data).	Organize short check-in between the sprint (Owner: G. Muller)
Tools / Environment	Data extraction and cleaning environment functional.	Efficient workflow.	Need better tracking of intermediate results.	Centralize test outputs in shared repository. (Owner: Data team)

4. Summary & Next Steps

- **Key Takeaways:**

- First detection logic and day-selection methods were successfully explored.
- Both features provided useful insights but require further refinement.
- Backend structure initialization postponed until the data layer stabilizes.

- **Improvements for Next Sprint:**

- Implement and test new methods for machine state.
- Develop a new method for representative days.
- Start integrating outputs with the backend for visualization.

- **Additional Notes / Decisions:**

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