

# Sprint End Report

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**Sprint:** S2

**Sprint Dates:** 13/10/2025 – 26/10/2025

**Sprint Goal:** Refine data analysis and machine state detection methods, document the interface requirement.

**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	26/10/2025
Start Time	16:45
End Time	17:00
Duration	00:15
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
<b>Feature 1 – Machine State Detection (Data Layer)</b>	Further development of the working/idle detection logic. Implemented a new proposal with 16 selected variables and creation of an activity_score metric. The Elbow method was applied to determine the optimal threshold.	Done	Good progress — method more stable and interpretable.	
<b>Feature 2 – Interface Requirements Documentation</b>	Created a detailed document defining all interface requirements,	Done	Some requirements might be too complicated/ambiguous to fulfill	Detail variables needed from the data layer and expected backend responses. <i>(Owner: All team, supervised by UI/UX team)</i>

### 3. Sprint Retrospective (Team Reflection & Improvements)

Category	Observations	What Went Well	What Can Be Improved	Action Items / Owner
<b>Process</b>	Clearer sprint scope and good task ownership.	Smoother coordination.	Interface mockups started late, limiting feedback.	Prepare visual prototypes earlier in Sprint 3. (Owner: UI/UX Team)
<b>Communication</b>	Cross-team communication improved compared to S1.	Regular syncs between subteams.	/	/
<b>Tools / Environment</b>	Shared repositories and documentation structured.	Git usage consistently and clear.	/	/

### 4. Summary & Next Steps

- Key Takeaways:**

- Data models for machine state detection and representative days are now nearly validated.
- Interface requirements are formally defined, starting to create alignment between teams.

- Improvements for Next Sprint:**

- Extend detection to 3 machine states (working / idle / intermediate).
- Start API development and connect backend to interface mockup.
- Begin alert generation and visualization logic.

- Additional Notes / Decisions:**