

1. Overview

This proposal outlines the development of a secure, private machine health monitoring dashboard tailored specifically for Daikibo’s internal operations. The system will serve as a centralized platform that visualizes real-time and historical telemetry data from machinery across the company's four major factory locations. Each factory comprises nine machines equipped with sensors that continuously transmit performance and condition data. The objective is to provide operations and maintenance teams with a clear, accessible, and up-to-date view of machine status, supporting proactive maintenance and minimizing downtime.

The dashboard will be hosted entirely within Daikibo’s intranet to ensure data confidentiality and availability only to authorized personnel. All access to the platform will be gated through integration with Daikibo’s internal authentication system. This means employees will be able to log in using their company-wide credentials, avoiding the need for managing separate login systems. By synchronizing authentication with the organization’s identity provider, we ensure secure and seamless access aligned with company IT policies.

Functionally, the dashboard will consist of a single, responsive web page. This interface will present a high-level summary of the operational health of all 36 monitored machines (9 in each of the 4 factories). For clarity and ease of navigation, the dashboard will feature collapsible sections for each factory. Users can expand these sections to view machine-specific details, including their current operational status and a short history of recent performance metrics or issues.

Each machine will be represented with intuitive visual indicators such as colored status labels (e.g., green for healthy, yellow for warning, red for critical). Clicking on a machine will expand a panel displaying relevant telemetry trends, such as temperature fluctuations, operational duration, or error frequency over time. This design allows maintenance teams to assess the health of equipment at a glance and investigate deeper if needed.

In summary, this dashboard aims to provide Daikibo with a powerful internal tool to monitor and maintain factory equipment efficiently, thereby improving production uptime, safety, and overall asset longevity.

2. Scope

The system will consist of the following features:

- Authentication Integration: Seamless user login using the company’s internal authentication server. Only authorized personnel within the intranet can access the dashboard using their existing company credentials.

- Factory Overview: The main page displays a summary of all 4 factories, each with 9 monitored machines.

- Real-Time Machine Status: Each machine’s current health status will be indicated visually using color codes (e.g., green for healthy, yellow for warning, red for critical).

- Collapsible View: Users can expand/collapse views at the factory and machine levels to drill down into machine-specific health details and telemetry.

- Status History: For each machine, users can view a historical timeline of health statuses to support diagnosis and trend analysis.

- Responsive Design: The single-page dashboard will be optimized for desktop and tablet displays within the company intranet.



3. Estimate

Total Estimated Man-Hours: 120 hours

**|** Activity |Hours|  
**|**--------------------------------------------|--------|  
**|** UI/UX Design | 10 |  
**|** Front-End Development | 40 |  
**|** Back-End/API Integration | 30 |  
**|** Authentication Integration | 10 |  
**|** Testing & QA | 20 |  
**|**  Intranet Deployment & Integration | 10 |  
**|** Total | 120 |

4. Timeline

1st September 2024 – Project Design Starts  
7th September 2024 – UI/UX Wireframes Approved  
15th September 2024 – Authentication Integration Complete  
20th September 2024 – Core Development Completed  
25th September 2024 – Internal Testing and QA  
28th September 2024 – Deployment within Intranet  
30th September 2024 – Final Delivery and User Onboarding

5. Support

We offer continuous support after deployment to ensure the reliability and smooth operation of the dashboard system. Our support includes:

- Timely bug fixes and patches

- Access to a dedicated support channel for technical issues

- Opportunity for feature extensions based on future needs

- Regular maintenance updates upon request  
  
We are committed to being a reliable long-term partner in Daikibo's digital operations.