

1. Overview

This proposal outlines the development of a secure, real-time **Machine Health Monitoring Dashboard** for Daikibo Corporation. The system will provide centralized visibility into the operational status of **36** **machines** (9 per factory) across Daikibo’s four manufacturing facilities.

Here are the key features of the proposal include :

* **Real-Time Machine Monitoring:** Live health status of 36 machines (9 per factory) displayed in a centralized dashboard with historical status tracking.
* **Secure Internal Access:** Dashboard is accessible only within the client’s intranet, with authentication synced to the company's internal user directory.
* **Intuitive UI with Expandable Views:** Collapsible interface allows users to navigate by factory and machine, simplifying oversight and quick issue identification.

By delivering instant into equipment health, this dashboard will empower maintenance teams to **proactively address issues, minimize downtime, and optimize production efficiency.**

2. Scope

The proposed dashboard will include the following core functionalities:

* **Secure Intranet Access:** Only accessible within Daikibo’s internal network.
* **Integrated Authentication:** Sync with the company’s internal authentication server to enable seamless login via existing company accounts.
* **Centralized Monitoring:** A single-page application displaying the real-time health status of all 36 monitored machines.
* **Collapsible Hierarchical View:** The user interface will support expandable/collapsible sections at the factory and machine levels.
* **Status History View:** Clicking on a machine reveals a brief history of status changes over time.

**Out-of-Scope :**

* External ticketing systems
* Predictive analytics/AI
* Offline functionally



3. Estimate

The project will require a total of **260 man-hours**, distributed as follows:

|  |  |  |
| --- | --- | --- |
| Phase | Hours | Description |
| Development | 170 | Backend API, authentication integration, frontend dashboard UI, and data visualization |
| Testing | 60 | Functional, security, and user acceptance testing |
| Integration & Deployment | 30 | Intranet deployment, configuration, and final validation |

4. Timeline

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| Milestone | Timeline |
| Project Kickoff & Requirements Finalization | Week 1 |
| UI Design & Authentication Setup | Week 2 |
| Dashboard Development | Weeks 3–4 |
| Testing & Internal Review | Week 5 |
| Deployment & User Training | Week 6 |

5. Support

Our team will provide ongoing **support post-deployment**, including:

* Bug fixes and performance optimization
* Ticket-based issue resolution
* Scheduled enhancements or feature upgrades

Support plans can be customized based on usage frequency and internal feedback.