

1. Overview

The following proposal outlines a design and development for a secure, private web-based dashboard that focuses on providing Daikibo with real-time and historical visibility regarding the operational health of its industrial machinery. Telemetry data will be collected from a total of 36 machines, 9 each from Daikibo's, 4 factories-and this information will then be aggregated and provided in a clear, structured, and easily navigated interface.

The main focus of the project will be to provide an interface for all stakeholders, particularly operational managers, maintenance teams, and technical staff, to quickly check machine health, identify possible problems, and review the current status. This will be without access to the raw telemetry system. This dashboard helps centralise the status information of machines onto a single, unified view, allowing for faster decision-making and proactive maintenance planning to maintain improved operational reliability. Access to the application will be strictly limited to Daikibo's internal intranet, whereby critical operational data is not exposed outside of operations. Full user authentication will be integrated with Daikibo's internal authentication server, whereby employees can access using their existing company credentials without separate account management.

2. Scope

The project will deliver the following functionality:

* **Secure Access**: Intranet-only availability with authentication synchronised to Daikibo’s internal authentication server, allowing users to log in using company-wide accounts.
* **Single-Page Dashboard**: A unified view displaying the current health status of all monitored devices across all factories.
* **Hierarchical View**: Factories displayed at the top level, each containing 9 machines.
* **Collapsible/Expandable Interface**:
  + Factory-level expansion to view individual machines.
  + Device-level expansion to view historical status information derived from telemetry data.
* **Status Visualisation**: Clear visual indicators (as shown in the referenced template graphics) to communicate machine health at a glance.

The user interface and layout will follow the graphics and structural guidance provided in the proposal template to ensure alignment with client expectations.



3. Estimate

The estimated effort for this project is **160 man-hours**, broken down as follows:

* **Development**: 100 hours
  + Frontend dashboard implementation
  + Backend integration with telemetry data sources
  + Authentication and intranet configuration
* **Testing**: 35 hours
  + Unit and integration testing
  + Security and access validation
  + User acceptance testing support
* **Integration & Deployment**: 25 hours
  + Deployment within the client’s intranet environment
  + Authentication server synchronization
  + Final configuration and handover

4. Timeline

The project is expected to be completed within **6 weeks**, with the following milestones:

1. **Week 1** – Requirements confirmation and technical design
2. **Week 2–3** – Core dashboard development and UI implementation
3. **Week 4** – Authentication and telemetry integration
4. **Week 5** – Testing, validation, and refinements
5. **Week 6** – Deployment, documentation, and project handover

5. Support

Ongoing support will include:

* **Bug Fixes and Maintenance**: Identification and resolution of software defects discovered during day-to-day usage, as well as routine maintenance to ensure continued compatibility with internal systems and browsers.
* **Technical Support and Issue Resolution**: Access to a structured support process for logging, tracking, and resolving support tickets raised by authorized users or administrators.
* **Performance Monitoring and Reliability**: Assistance with monitoring dashboard performance, telemetry data updates, and authentication reliability to ensure consistent availability and accurate status reporting.
* **Security and Compliance Support**: Updates and adjustments related to authentication integration, access control, and intranet security requirements as Daikibo’s internal policies evolve.
* **Enhancements and New Functionality**: Optional support for future feature extensions, such as advanced analytics, alerting mechanisms, reporting exports, or support for additional factories and devices.
* **Documentation and Knowledge Transfer**: Provision of updated technical documentation and guidance to support internal IT teams in maintaining and extending the solution