

Software Development **Proposal**

Deloitte.

Development Proposal for **Daikibo's Machine Health Dashboard**

1. Overview

We are excited to propose the development of a custom **Private Dashboard** for **Daikibo**. This dashboard will provide real-time health status updates for the machines in **Daikibo's four factories**. Each factory has nine machines, and the dashboard will compile and display telemetry data for all of them in an easy-to-use, **single-page interface**. Accessible only through **Daikibo's internal network**, the dashboard will ensure secure, convenient monitoring for authorized personnel. Authentication will be seamlessly integrated with **Daikibo's internal systems**, so users can log in with their existing company accounts. The dashboard will feature collapsible and expandable views for both factories and individual devices, complete with historical data for deeper insights.

2. Scope

Key Features:

1. User Authentication and Access Control:

- Syncs with **Daikibo's internal authentication server**.
- Access is restricted to users within **Daikibo's Intranet**, ensuring security.

2. Dashboard Interface:

- A **single-page application** listing the status of all monitored machines.
- Collapsible and expandable sections for each factory and each machine.
- Real-time status updates for every machine.
- Historical data views for each device, accessible upon expansion for detailed analysis.
















3. Data Management:

- a. Efficiently collects and processes telemetry data from all machines.
- b. Implements secure storage and retrieval systems to support real-time updates.

Visual Representation

We'll include mockups of the dashboard interface, illustrating the collapsible views for factories and devices, as well as the historical data section. These will help visualize the user experience and layout.

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✓  Daikibo Factory Meiyō	Last update: <1min ago ◀
✓  Daikibo Factory Seiko	Last update: <1min ago ◀
✓  Daikibo Berlin	Last update: <1min ago ◀
✗  Daikibo Shenzhen	Last update: <1min ago ▾
✗  CNC	Last update: 2min ago ▾
✗  Status: Unhealthy	2min ago
✓  Status: Healthy	12min ago
Load More	
✓  LaserCutter	Last update: <1min ago ◀
✓  HeavyDutyDrill	Last update: <1min ago ◀
✓  SpotWelder	Last update: <1min ago ◀
✓  LaserWelder	Last update: <1min ago ◀
✓  MetalPress	Last update: <1min ago ◀
✓  Furnace	Last update: <1min ago ◀
✓  ConveyorBelt	Last update: <1min ago ◀
✓  AirWrench	Last update: <1min ago ◀

3. Estimate

Task	Hours
Development	240
Frontend Development	100
Backend Development	80
Database Design & Integration	60
Testing	80
Unit Testing	40
Integration Testing	20
User Acceptance Testing	20
Integration	40
Authentication Server Integration	20

Intranet Deployment & Configuration	20
Total Man-Hours	360

4. Timeline

Our proposed timeline for the project is as follows:

<i>Phase</i>	<i>Tasks</i>	<i>Duration</i>
<i>Requirement Analysis</i>	Requirement Analysis and Finalization	Weeks 1-2
<i>Design Phase</i>	Creating UI/UX Designs Designing the Database Schema	Weeks 3-5
<i>Development Phase</i>	Building the Frontend Developing the Backend Setting Up the Database	Weeks 6-10
<i>Testing Phase</i>	Conducting Unit Tests Performing Integration Tests Running User Acceptance Tests	Weeks 11-12
<i>Integration and Deployment</i>	Integrating with the Authentication Server Deploying on the Intranet	Week 13

5. Support

We are committed to providing ongoing support after the dashboard goes live. Our support services include:

Table

SUPPORT SERVICE	DESCRIPTION
BUG FIXES	Prompt resolution of any issues that arise.
SUPPORT TICKETS	A dedicated system for reporting and tracking issues.

NEW FEATURES

Adding new functionality based on your evolving needs.

We look forward to partnering with **Daikibo** to develop this dashboard and ensure it meets all your monitoring needs. We're here to help make your operations more efficient and your data more accessible.