

Software Development Proposal

Deloitte.

1. Overview

This project aims to develop a secure, real-time dashboard for Daikibo Industrials to monitor the health status of all IIoT-enabled machines deployed across their four factories. The system will allow internal users to view current operational statuses of all machines, access historical performance data, and quickly identify issues that may impact productivity. This tool is critical for proactive maintenance and continuous production efficiency.
















The dashboard will be accessible only within the company intranet and will integrate with Daikibo's internal authentication server to ensure secure access using company-wide credentials.

2. Scope

The proposed application will be a single-page dashboard with the following features:

- Internal-Only Access: Restricted to users within Daikibo's corporate network.
- SSO Authentication: Integrated with the company's internal authentication server (e.g., LDAP or Active Directory).
- Device Monitoring: Displays health status of 9 machines per factory across 4 factories (36 machines in total).
- Expandable Hierarchy:
 - Collapsible factory-level view (shows all factories).
 - Expandable machine-level view under each factory.
- Status History: Each machine panel displays recent status history (e.g., last 24–72 hours).
- Color Indicators: Visual indicators (e.g., green/yellow/red) show device status at-a-glance.
- Secure Architecture: Hosted on the internal network, protected with HTTPS and access control.

(Use the provided wireframe image on the next page for visual reference.)

✓  Daikibo Factory Meiyo	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

The project will require approximately 125 man-hours, broken down as follows:

- UI/UX Design: 20 hours
- Frontend Development: 40 hours
- Backend/API Development: 30 hours
- Authentication Integration: 10 hours
- Testing & QA: 15 hours
- Deployment & Integration: 10 hours

****Total: 125 hours****

4. Timeline

1. - **1st September 2025**: Design Phase Begins
 - **8th September 2025**: UI/UX Mockups Finalized
 - **9th September 2025**: Backend and Frontend Development Begins
 - **23rd September 2025**: Authentication Integration Completed
 - **27th September 2025**: Internal Testing and QA
 - **1st October 2025**: Dashboard Deployment
 - **2nd October 2025**: Final Review and Project Handover

2. ... [*Finish the timeline*]

5. Support

Following deployment, Deloitte will provide ongoing support for the system, including:

- Bug Fixes: Prompt resolution of technical issues reported by internal users.
- Support Tickets: A dedicated channel for logging and resolving user issues.
- Feature Enhancements: Ability to add new features (e.g., predictive alerts, advanced filtering).
- Maintenance: Codebase and security updates aligned with internal IT standards.

We are committed to ensuring smooth operation and long-term reliability of the dashboard.