

1. Overview

This proposal outlines the development of a private dashboard for Daikibo, designed to monitor the health status of machines across four factories. The dashboard will provide real-time telemetry data for nine types of machines located in Berlin, Meiyo, Seiko, and Shenzhen factories. This solution will be accessible exclusively through the client's Intranet, ensuring secure and efficient monitoring capabilities for Daikibo's operations team.



2. Scope

The proposed dashboard will include the following key functionalities:

* **Real-Time Monitoring:** A single-page application that displays the current health status of all machines across the four factories. This will allow Daikibo’s operations team to quickly identify and respond to any machine issues.
* **Factory-Level View:** The dashboard will be collapsible and expandable at the factory level, enabling users to view the overall health of machines in a specific location.
* **Device-Level View:** Each machine type (AirWrench, CNC, ConveyorBelt, Furnace, HeavyDutyDrill, LaserCutter, LaserWelder, MetalPress, SpotWelder) within the factories will have an expandable view that provides a history of statuses and detailed telemetry data.
* **User Authentication:** The dashboard will sync with Daikibo's internal authentication server, allowing users to log in using their company-wide accounts. This ensures a secure, streamlined login process and maintains the confidentiality of the data.



3. Estimate

The total estimated man-hours for the development of the dashboard are broken down as follows:

* **Development:** 200 hours
  + Frontend Development: 100 hours
  + Backend Development: 60 hours
  + Integration with Internal Authentication Server: 40 hours
* **Testing:** 60 hours
  + Unit Testing: 20 hours
  + Integration Testing: 20 hours
  + User Acceptance Testing (UAT): 20 hours
* **Integration:** 40 hours
  + Intranet Deployment: 20 hours
  + System Configuration and Optimization: 20 hours

4. Timeline

The project is projected to be completed in approximately **8 weeks**. The timeline is outlined below:

* **Week 1-2: Planning and Design**
  + Requirements gathering and finalizing specifications
  + UI/UX design for the dashboard
* **Week 3-5: Development**
  + Frontend and backend development
  + Integration with internal authentication server
* **Week 6: Testing**
  + Conduct unit and integration testing
  + Perform User Acceptance Testing (UAT)
* **Week 7: Integration**
  + Deploy on Daikibo's Intranet
  + Configure and optimize the system
* **Week 8: Review and Launch**
  + Final review with Daikibo’s team
  + Official launch of the dashboard

5. Support

Post-launch, we will provide ongoing support to ensure the smooth operation of the dashboard. This includes:

* **Bug Fixes:** Prompt resolution of any issues that arise.
* **Support Tickets:** Dedicated support to address any user inquiries or technical difficulties.
* **New Functionality:** Continuous development to enhance the dashboard based on user feedback and evolving needs.

We are committed to ensuring that Daikibo has a reliable and efficient solution for monitoring the health status of its machines, contributing to improved operational efficiency and reduced downtime.