

1. Overview

Deloitte is pleased to submit a comprehensive development proposal for an innovative private dashboard designed to enhance Daikibo's manufacturing operations. This sophisticated dashboard will facilitate real-time monitoring of machinery health across all four of Daikibo's strategically located factories.

Engineered to operate within the secure confines of the client's Intranet, the dashboard promises unparalleled data confidentiality and robust security. Integration with Daikibo's internal authentication server ensures that access is streamlined and secure, allowing employees to utilize their existing company-wide credentials.

This initiative is set to significantly enhance operational transparency and efficiency, underscoring Daikibo's commitment to technological advancement and superior operational integrity.

2. Scope

This project involves the development of an advanced private dashboard tailored to enhance the operational oversight of Daikibo’s manufacturing processes across its four global factories: Meiyo, Seiko, Berlin, and Shenzhen. The dashboard will deliver comprehensive capabilities as outlined below:

* **Factory Monitoring:** Engineered to seamlessly integrate with all four Daikibo factories, the dashboard will provide exhaustive monitoring capabilities, ensuring every aspect of the operations is continuously under surveillance. This will enable real-time operational insights and prompt detection of anomalies.
* **Machine Categories:** The dashboard will support a diverse array of machine types crucial to Daikibo’s production lines, including CNC machines, Laser Cutters, Heavy-Duty Drills, Spot and Laser Welders, Metal Presses, Furnaces, Conveyor Belts, and Air Wrenches. This feature ensures that all critical equipment is included, enhancing the dashboard's utility and relevance.
* **Single-Page Overview:** At login, users will be presented with a streamlined, single-page interface displaying the current health statuses of all monitored devices. This design ensures that key data are immediately accessible, facilitating quick decision-making and efficient operational management.
* **Collapsible/Expandable View:** The user interface will include collapsible and expandable sections, providing a customizable experience that allows users to focus on specific areas of interest without the clutter of unnecessary information. This adaptability makes it easier for users to manage and navigate large amounts of data effectively.
* **Historical Data Analysis:** Extending beyond mere real-time monitoring, the dashboard will offer access to historical data, enabling users to review past performance metrics and status changes. This functionality is crucial for conducting trend analysis, identifying recurring patterns, and supporting strategic decision-making based on historical insights.

For a detailed visual representation of the proposed dashboard’s layout, including its user-friendly interface and the advanced functionality of its collapsible/expandable sections, please refer to the wireframes included in the subsequent section of this document. These illustrations will provide a clear understanding of the dashboard's design and operational flow, ensuring alignment with Daikibo’s strategic objectives.



3. Estimate

The development of the Daikibo dashboard is a comprehensive project that requires meticulous planning, execution, and integration. The following is a detailed estimate of the man-hours needed for each phase of the project:

* **Development:** 280 man-hours
  + **Factory Monitoring Implementation:** 50 hours
    - Development of real-time monitoring features for each of the four factories.
  + **Machine Categories Integration:** 80 hours
    - Integration of various machine types and ensuring their statuses are accurately represented.
  + **Health Status Display:** 70 hours
    - Programming of dynamic health status indicators for real-time updates.
  + **Single-page Overview Design:** 80 hours
    - Design and implementation of a user-friendly, single-page interface that accommodates all functionalities.
* **Testing:** 120 man-hours
  + Comprehensive testing to ensure accuracy, functionality, and user interface usability.
* **Integration:** 60 man-hours
  + Seamless integration of the dashboard into the client’s existing Intranet environment, ensuring compatibility and secure authentication.
* **Total Estimate:** 460 man-hours

4. Timeline

1. **Initial Planning and Design Phase:**
   * 1. September 1, 2021: Project Kick-Off and Initial Design
     2. September 20, 2021: Detailed Design Approval
2. **Development Phases:**
   * 1. October 1, 2021: Factory Monitoring Development Begins
     2. October 15, 2021: Machine Categories Integration
     3. November 1, 2021: Health Status Display Implementation
     4. November 15, 2021: Single-Page Overview Design and Implementation
3. **Testing and Refinement Phase:**
   * 1. December 1, 2021: System Integration Testing Starts
     2. December 15, 2021: User Acceptance Testing (UAT) and Feedback
4. **Final Integration and Deployment:**
   * 1. December 22, 2021: Final Integration Adjustments
     2. December 29, 2021: Dashboard Go-Live
5. **Post-Deployment Support and Iteration:**
   * 1. January 10, 2022: Post-Deployment Review and Iterative Improvement

5. Support

Deloitte is committed to providing enduring support following the successful deployment of the Daikibo dashboard. Our support framework is meticulously designed to ensure the dashboard not only meets initial operational expectations but also continues to evolve in alignment with Daikibo's future needs.

* **Bug Fixes:** Our technical support team will provide swift identification and resolution of any software issues, ensuring an uninterrupted and seamless user experience. Proactive monitoring tools will be utilized to anticipate potential disruptions before they impact operations, thereby maintaining high availability and reliability.
* **User Assistance:** Deloitte will maintain a dedicated support team trained to address all user inquiries and issues with promptness and efficiency. This team will be accessible via multiple channels, including a prioritized ticketing system, to ensure responsive support. Regular training sessions will also be conducted to empower users with the knowledge and skills to utilize the dashboard effectively.
* **Enhancements and Upgrades:** Understanding that business needs evolve, we commit to a program of continuous improvement for the dashboard. This includes regular updates to introduce new functionalities and enhance existing features. Our development team will work closely with Daikibo to gather feedback and identify opportunities for innovation, ensuring the dashboard remains a dynamic tool tailored to the complexities of modern manufacturing.
* **Strategic Review Meetings:** Scheduled quarterly, these meetings will involve stakeholders from both Deloitte and Daikibo. The goal is to review the dashboard’s performance, discuss new requirements, and plan further enhancements in line with emerging technological trends and organizational changes.

Our robust support plan ensures that the dashboard will not only serve as a critical tool in Daikibo's operational landscape upon deployment but will also continue to grow in capability and relevance, thereby significantly enhancing overall efficiency and productivity. This enduring support underscores our commitment to not just meeting but exceeding Daikibo's operational needs