

1. Overview

At Deloitte, we can develop the processes, tools, and governance to help effectively harness and manage enterprise data assets to deliver operational excellence, new products and services, competitive agility, and growth.

For Daikobi Industries, analyzing offline telemetry data is great, but having a real-time overview of processes and smart alerts when things break is even better. Therefore, the need for a real-time manufacturing status dashboard cannot be overemphasized. This would help the factories to detect bottlenecks much faster, leading to more productivity. This project aims to build a real-time operational status dashboard for live update about the health status of the machines at Daikibo Factories. The project encompasses hosting the dashboard on the client’s company’s private network making it only accessible with the company network. The dashboard will be; interactive, providing a level of view’s abstraction and will consist of only a single presentation page for current status of all monitored devices.

2. Scope

The project aims to improve productivity for Daikibo Industries, by helping detect and improve on device issues like bottleneck on the go. The dashboard provides a level of view’s abstraction that presents insights at a glance. The System will provide the following functionalities;

* One-page private Interactive Dashboard listing the current statuses of all monitored devices
  + Private Dashboard Level 1 - factories:
    - Presents collapsible/expandable view of the factories, and their downtimes,
    - Flags unhealthy devices at operations time in relative factories.
  + Private Dashboard Level 2 - devices:
    - Present collapsible/expandable view about all 9 machines in each of Daikibo's 4 factories and their health status for which they collect telemetry.
* Authentication and privacy
  + The Dashboard authentication is to be synced to Daikibo’s internal authentication server to provide access only within client's Intranet.
  + Allows for users to leverage their company-wide accounts to access the dashboard page

A wireframe image is provided on the next page for visual reference (Note: it is only a prototype use-case UI to present project functionalities).



3. Estimate

|  |  |  |  |
| --- | --- | --- | --- |
| Development (Design included) | Testing | Integration | Total Time |
| 160 | 80 | 50 | 290 |

\*Man-hours

An estimate total of 290-man hours would be required to complete the project.

**Team**

Software Engineer = 2

Data Engineer/ DevOps Engineer = 1

Designer = 1

Project Manager = 1

*\*A 5-person development team.*

The project will be requiring the assistance of a DevOps Engineer from Daikibo to integrate the product into Daikibo’s intranet network and to release authentication for Daikibi servers ( and telemetry databases) to the developers – Using Agile Development Model (Client Participation)

4. Timeline

1. [23rd November, 2022] - **Design starts**
2. [1st December, 2022] - Design sent to Daikibo for Feedback (Agile – Client is involved throughout the project development)
3. [4th December, 2022] - **Design is validated**
4. **[5th December, 2022] - Development starts**
5. [23rd December, 2022] - **Development in progress and Testing starts (first release is demonstrated to Daikibo for user-validation)**
6. [3rd January, 2023] – Testing continues
7. [10th January, 2023] – Testing completed. **Development is verified and validated. Integration begins**
8. [20th of January, 2023] - Integration is completed. Project Deployed

***\*working 40 hours per week, and break from 24th December, 2022 to 2nd January, 2023.***

***\*total of 50 working days, 10 holidays and 300 working hours (including miscellaneous)***

5. Support

[*Describe our ability to* *continuously support the product built in this project*]

The objective of the project is to build a real-time manufacturing status dashboard, to help Daikibo improve productivity, and therefore after the project integration and deployment into Daikibo’s infrastructure, Deloitte will continue to provides advisory and support services. A support service can easily be made through the internal system support provide in the system.

Deliotte generally, is a leading global provider of audit and assurance, consulting, financial advisory, risk advisory, tax and related services, therefore, based on our service manifesto, continuously support will be provided for the product.

***Note: The estimate provided early does not cover management, updates and management costs.***