

1. Overview

Based on the data we collected before, the prominent problem of the machines is that the factory (Seiko) that is facing most downtimes has problem with just one type of machine ( LaserWelder). Therefore, this proposal is drafted to provide a real-time manufacturing status dashboard as a scope to offer smart alerts if breakdown happens.

This dashboard would contain the fundamental function of displaying and monitoring the health status of the 9 machines in each of Daikibo’s 4 factories to continually collect telemetry data, while for the sake of cyber security, it could only be accessed by client’s Intanet. Furthermore, the authentication would be synced to internal authentication server.

2. Scope

The functionality of the project is basically listed as follows:

1. The dashboard would display and monitor the health status of the 9 machines in 4 factories
2. Access to the page happens only within client's Intranet.
3. Authentication is synced to internal authentication server
4. The dashboard consists of a single page, listing the current statuses of all monitored devices.
5. The view is collapsible/expandable



3. Estimate

Development : 2 weeks

Testing: 3 days

Integration : 1 day

4. Timeline

1. [2022/02/17] **Design starts**
2. [2022/02/18 – 2022/02/28] **Development starts**
3. [2022/03/1] **Testing on prototype starts**
4. [2022/03/4] **Integration to Intranet**

5. Support

The group of our engineers would offer an overall support system on this dashboard, including bug fixing, support tickets, as well as the update on new functionality. Besides, a group focused on this project will be sent to our client’s place to gather first-hand data and provide professional advice.