

1. Overview

Daikibo is seeking proposals for the design and development of a secure, internal-use dashboard to monitor the real-time health status of production machinery across its four manufacturing facilities. Each facility houses nine machines that generate telemetry data used for performance and health monitoring.

The objective is to create a web-based dashboard accessible within the company intranet, providing authenticated users with a centralized, intuitive interface to oversee device statuses and investigate historical records, when necessary, in a collapsible/expandable view at the factory and device levels.

2. Scope

The proposed system must fulfill the following functional and technical requirements:

Platform:

* Web-based application accessible exclusively within Daikibo's intranet.

Authentication:

* Must integrate with Daikibo’s internal authentication server to enable login with company-wide user credentials.

Dashboard View:

* A single-page application showing the real-time health status of all monitored machines.
* The dashboard must group machines by factory (4 total), with each group containing 9 machines.
* Collapsible/expandable sections for each factory and each machine to view additional details and historical status logs.
* Telemetry Integration: Consumption of existing telemetry data endpoints (details to be provided upon award).

Design & UX:

* Clean and responsive interface, compatible with both standard desktops and factory-floor terminals.
* UI must support fast rendering of status indicators and intuitive navigation between factory and machine views.
* Graphics design is provided below to illustrate the desired layout and user flow.



3. Estimate

The estimated effort required to complete this project is approximately 160 man-hours, below is the breakdown of each phase as follows:

|  |  |
| --- | --- |
| **Phase** | **Estimated Efforts (Hours)** |
| Frontend Development | 60 |
| Backend Development | 40 |
| Authentication Integration & Security Setup | 20 |
| Testing | 25 |
| Deployment and Configurations | 10 |
| Documentation | 5 |
| **Total Efforts** | **160** |

4. Timeline

The estimated timeline for project delivery is 5 weeks from project commencement. Key milestones include:

|  |  |
| --- | --- |
| **Week** | **Milestone** |
| Week 1 | Requirements finalization, architecture design |
| Week 2 | Backend and authentication integration, wireframe confirmation |
| Week 3 | Frontend dashboard development, factory/device grouping |
| Week 4 | Expandable views and history integration, interface refinement |
| Week 5 | Final testing, deployment, internal review, and handover |

5. Support

Post-deployment, our developers will be providing hyper care for 2 weeks and later hand over to support team where the responsibility will be including but not limited to the below mentioned points:

* Timely bug resolution and security patching
* Access to a support ticketing system like Service Now, Jira etc.
* Optional enhancements (e.g., email alerting features, analytics dashboards and automation if any)
* Periodic maintenance reviews or Enhancement (If opted, can be added to the regular support agreement)
* Best Practices and Lesson Learnt
* Documentation of each phase of product lifecycle3