

1. Overview

This proposal outlines the development of an internal-use, web-based dashboard for Daikibo to monitor the real-time and historical health status of 36 machines (9 in each of 4 factories). The application will operate exclusively within Daikibo’s intranet and integrate with their existing internal authentication server, ensuring secure and centralized access for authorized employees.

The dashboard will enhance operational oversight and maintenance planning by providing clear, structured visibility into the performance and health of industrial equipment through a collapsible and intuitive interface.

2. Scope

The proposed system will include the following functionality:

* **Dashboard Overview Page**: A single-page web application that lists all machines grouped by their respective factories.
* **Collapsible Factory Panels**: Each factory section can be expanded/collapsed to show or hide the 9 machines it contains.
* **Collapsible Device Details**: Each machine listing includes a collapsible view to display its historical status data.
* **Authentication**: Users will authenticate via the company-wide internal authentication server (e.g., LDAP or SSO).
* **Intranet Access Only**: The dashboard will be hosted within the company’s private network with no external access.



3. Estimate

**Total Estimated Effort: 160 man-hours**

| **Activity** | **Estimated Hours** |
| --- | --- |
| Requirements Finalization | 10 |
| Frontend Development | 60 |
| Backend/API Development | 35 |
| Authentication Integration | 15 |
| Testing & Quality Assurance | 20 |
| Deployment & Integration | 10 |
| Buffer for Revisions | 10 |

4. Timeline

| **Milestone** | **Target Date** |
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| Design Starts | 1st September 2024 |

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| Authentication Integration Begins | 8th September 2024 |

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| Frontend Development | 10th–24th September 2024 |

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| Backend Development | 10th–24th September 2024 |

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| UI Testing & Bug Fixes | 25th–30th September 2024 |

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| Final Deployment | 1st October 2024 |

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| Client Review & Handover | 2nd–3rd October 2024 |



5. Support

We will provide continuous product support after deployment, which includes:

* **Bug Fixes**: Timely resolution of post-launch issues.
* **User Support**: Email or ticket-based support system for employee queries.
* **Future Enhancements**: Optional feature upgrades and improvements based on feedback.
* **Monitoring Assistance**: Help with performance monitoring of the dashboard if required.

Our team is committed to maintaining the system's reliability, security, and usability throughout its lifecycle.