



Proposal

MAINTENANCE MANAGEMENT SYSTEM

Introduction:

The purpose of a maintenance system is to ensure that equipment, facilities, or infrastructure are kept in good working condition and are operating efficiently. It involves the process of monitoring, maintaining, and repairing equipment to prevent breakdowns and failures. The maintenance system helps to prevent downtime, reduce repair costs, and prolong the life of equipment or infrastructure.

Some specific purposes of a maintenance system include:

- Increasing equipment reliability and availability: The maintenance system helps to ensure that equipment is available when it is needed and that it operates reliably to meet production or service requirements.
- Improving safety: The maintenance system helps to identify potential safety hazards and risks associated with equipment and facilities. By addressing these risks, the maintenance system can help prevent accidents and injuries.
- Reducing costs: By conducting regular maintenance and identifying problems early, the maintenance system can help prevent costly breakdowns and repairs.
- Prolonging the life of equipment: Regular maintenance can help to extend the life of equipment or infrastructure, reducing the need for costly replacements.
- Maintaining compliance: Certain regulations or standards may require equipment or facilities to be maintained and inspected regularly. A maintenance system can help to ensure that these requirements are met.

Overall, the purpose of a maintenance system is to ensure that equipment, facilities, or infrastructure are kept in good condition, operate reliably, and meet production or service requirements.

Problem Statement

A maintenance system is a software application designed to manage the maintenance of equipment, assets, or facilities. The problem statement for a maintenance system can be framed as follows:

Many organizations rely on equipment, assets, or facilities to carry out their daily operations. These assets require regular maintenance to ensure they are functioning optimally and to prevent breakdowns or downtime. However, managing maintenance schedules, work orders, and inventory can be a complex and time-consuming process, especially for large organizations with multiple sites and equipment.

The problem is that current maintenance practices are often manual, inefficient, and prone to errors, resulting in increased downtime, maintenance costs, and lost productivity. There is a need for a centralized maintenance system that can streamline maintenance processes, reduce downtime, and improve asset performance.

The goal of a maintenance system is to provide a comprehensive solution that automates maintenance processes, tracks maintenance history, manages work orders and inventory, schedules preventive maintenance, and provides real-time insights into asset performance. By implementing a maintenance system, organizations can improve equipment reliability, reduce maintenance costs, and optimize asset utilization.

Objective

The objective of a maintenance system is to provide a centralized solution for managing the maintenance of equipment, assets, or facilities. The system aims to streamline maintenance processes, reduce downtime, and improve asset performance by:

- Automating maintenance processes: A maintenance system automates the process of creating work orders, scheduling preventive maintenance, and tracking maintenance history. This reduces the time and effort required to manage maintenance tasks manually.
- Managing work orders and inventory: The system tracks work orders and inventory, ensuring that the right parts and tools are available for maintenance tasks.
- Scheduling preventive maintenance: The system schedules preventive maintenance based on equipment usage, maintenance history, and manufacturer recommendations. This helps prevent breakdowns and extend the life of equipment.
- Providing real-time insights into asset performance: The system monitors equipment performance in real-time, providing insights into potential issues before they become problems. This enables organizations to proactively address maintenance issues and optimize asset utilization.
- Reducing maintenance costs: By improving asset performance and reducing downtime, a maintenance system can help organizations save on maintenance costs. The system also helps organizations make informed decisions about equipment replacement and maintenance budgets.

Overall, the objective of a maintenance system is to improve equipment reliability, reduce maintenance costs, and optimize asset utilization, ultimately helping organizations achieve their business goals.

Language

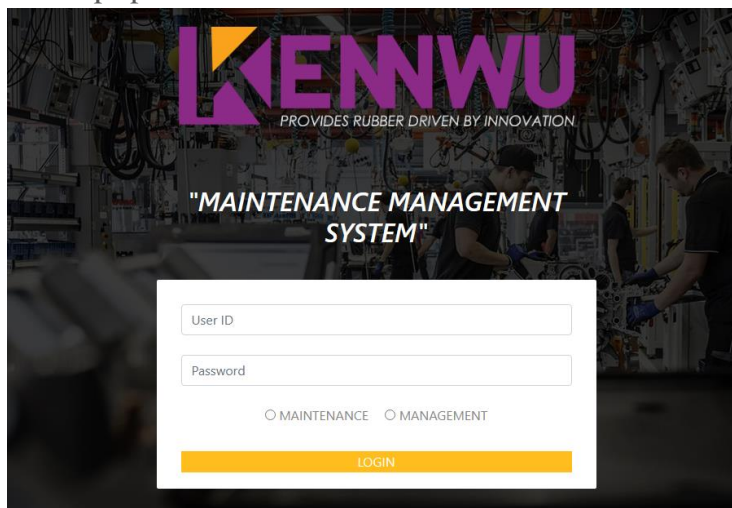
1. PHP
2. HTML
3. CSS
4. AJAX
5. MYSQL
6. BOOTSTRAP

Status

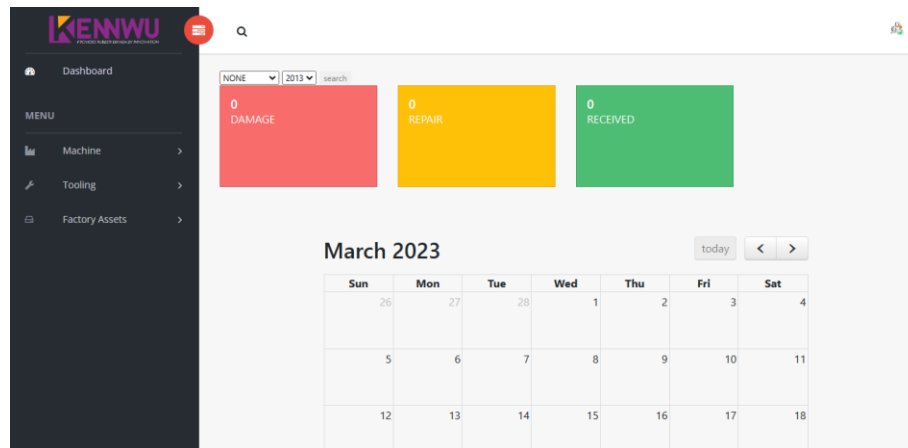
This project are still on-going, and will add some new features in the system.

Interface:

1. Index.php



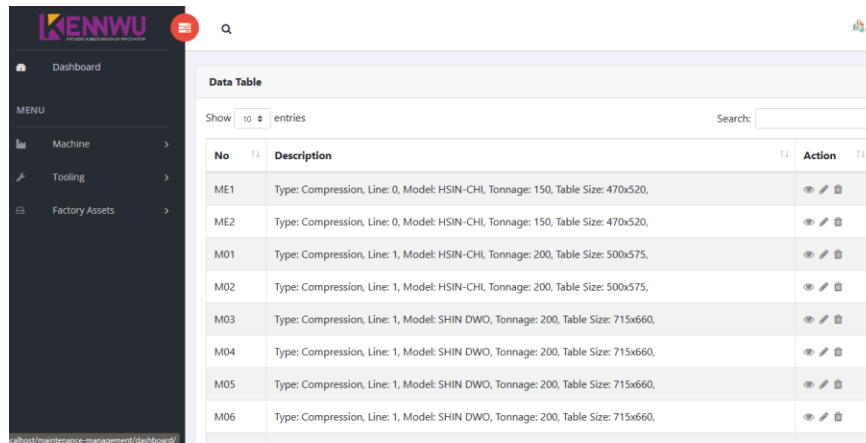
2. Dashboard:
 - a. Search: Tooling Status
 - b. Add Event Calendar



3. New Machine Registration

The screenshot shows the 'Register Machine' form in the KENWU dashboard. The form has two input fields: 'Machine No' with a placeholder 'machine no' and 'Description' with a placeholder 'Content...'. A green 'SUBMIT' button is at the bottom of the form.

4. List Of Machines



The screenshot shows a web application interface for KENWU. On the left is a dark sidebar with a 'MENU' section containing 'Machine', 'Tooling', and 'Factory Assets'. The main content area is titled 'Data Table' and features a search bar and a 'Show 10 entries' dropdown. Below this is a table with columns 'No', 'Description', and 'Action'. The table contains 6 rows of machine data, each with a unique ID (ME1, ME2, M01, M02, M03, M04, M05, M06) and a detailed description of its type, line, model, tonnage, and table size. Each row has an 'Action' column with icons for edit, delete, and view.

No	Description	Action
ME1	Type: Compression, Line: 0, Model: HSIN-CHI, Tonnage: 150, Table Size: 470x520,	
ME2	Type: Compression, Line: 0, Model: HSIN-CHI, Tonnage: 150, Table Size: 470x520,	
M01	Type: Compression, Line: 1, Model: HSIN-CHI, Tonnage: 200, Table Size: 500x575,	
M02	Type: Compression, Line: 1, Model: HSIN-CHI, Tonnage: 200, Table Size: 500x575,	
M03	Type: Compression, Line: 1, Model: SHIN DWO, Tonnage: 200, Table Size: 715x660,	
M04	Type: Compression, Line: 1, Model: SHIN DWO, Tonnage: 200, Table Size: 715x660,	
M05	Type: Compression, Line: 1, Model: SHIN DWO, Tonnage: 200, Table Size: 715x660,	
M06	Type: Compression, Line: 1, Model: SHIN DWO, Tonnage: 200, Table Size: 715x660,	

5. Preventive & Predive Maintenance. MTTR & MTBF

Preventive Maintenance Record Table

Duration: Preventive

Show 10 entries Search:

MC No.	Type	Date	Service by	Verified by	Action
No data available in table					

Showing 0 to 0 of 0 entries Previous Next

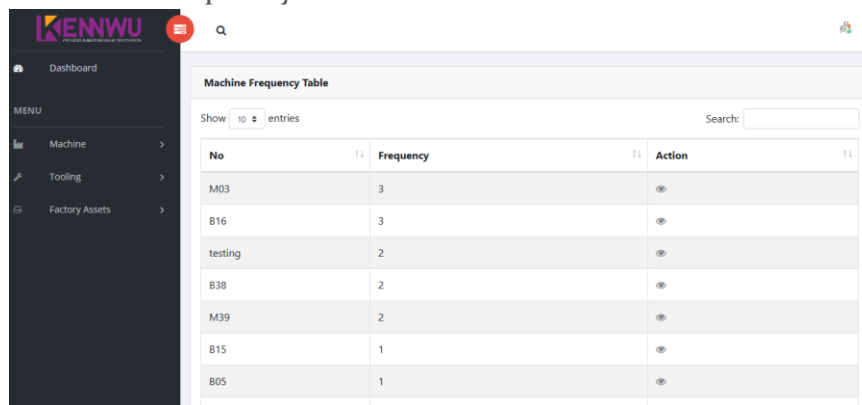
Predictive Maintenance Record Table

MTBF : 0 days MTTR : 0

Request Form

No.	Requested By	Date	Time	Status	Action
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6. Machines Frequency



The screenshot shows the same KENWU dashboard as before, but with the 'Machine Frequency' table selected. The table has columns 'No', 'Frequency', and 'Action'. It contains 7 rows of data, each with a machine ID (M03, B16, testing, B38, M39, B15, B05) and a frequency value (3, 3, 2, 2, 2, 1, 1). Each row has an 'Action' column with an edit icon.

No	Frequency	Action
M03	3	
B16	3	
testing	2	
B38	2	
M39	2	
B15	1	
B05	1	

7. Damage Form (Tooling)

Preventive Maintenance Record Table

Duration: Preventive

Show 10 entries Search:

Tool No.	Type	Date	Service by	Verified by	Action
No data available in table					

Showing 0 to 0 of 0 entries Previous Next

Damage And Repair Report Table

+ Damage Report

No.	Activity	Date	Status	Action	Repair By	Date Receive	Action
T001_T1	Repair	2021-09-07	✓		CKP	2021-09-07	
T001_T1	Additional Core Bar	0000-00-00	✓		CKP	2020-12-24	
T001_T1	Modify	0000-00-00	✓		CKP	2020-08-28	

8. Request Form for other Factory assets

KENWU PROVIDE A BETTER WORK EXPERIENCE

Dashboard

MENU

- Machine
- Tooling
- Factory Assets

Request Form

Status: RECEIVED DAMAGED REPAIR

From:

Date:

Time:

Category:

Activity:

Start: End:

Remarks: