Exult – Preventive Maintenance

Consulting Service Name: Preventive Maintenance (PM) - 5 Weeks Implementation
Tools Used: Power apps- Canvas APP (for general application) , Model Driven App (for admin application) Dataverse- as database Power Automate - To schedule the Preventive Maintenance (PM) activities and to automate different tasks associated with it. SQL Server - To archive the data from Dataverse.

Overview

The objective of the Preventive Maintenance App is to manage and schedule preventive maintenance (PM) for a fleet of machines. The PMs are categorized as MPM (monthly), QPM (quarterly), and YPM (yearly). This system will act as the communication point between the Fleet/Shop team and the Operations team.

Value Addition:

PM Scheduling and Tracking:

- The application provides an intuitive interface to track and display upcoming preventive maintenance tasks for Machines. The system handles 3 types of PM activities:
    - MPM (Basic Preventive Maintenance): Conducted monthly.
    - QPM (Comprehensive Preventive Maintenance): Conducted quarterly.
    - YPM (Detailed Preventive Maintenance): Conducted annually.
- The application will create the Preventive Maintenance Schedules for machines using a power automate flow on first of every month.

End-to End visibility of PM Workflow:

- The application shows all PMs that are due within the current month and the status of the PM if it is completed. This allows the Mechanic Team to stay on top of scheduled maintenance activities and avoid any delays.
- Maintenance Submission:
- After completing a PM, mechanics can submit details of the maintenance performed directly through the application. This ensures accurate and timely reporting.

Platform for Seamless Communication:

The application facilitates seamless communication between the operations and maintenance department, allowing for real-time updates.

- The maintenance department can request a machine from the operations team for doing the preventive maintenance from the application, the operations team can identify those machines requested by the maintenance department and can send the machine accordingly.
- Operations can also track the progress of PM task and once the PM is completed, the machine is sent back to the operations team.

Implementation Plan & Deliverables:

WEEK 1: DISCOVERY & ASSESSMENT

· Overview of our Power Platform capabilities, including governance and solution frameworks we offer.

· Detailed analysis of the preventive maintenance activities carried out at customer's end - which includes: processes, stakeholders involved and their responsibilities, maintenance schedules, systems and level/state of automation.

· Determining how solution can be customized to best fit to solve the problem in hand.

· A walk through of the complete proposal with the scope of work.

· Customer's sign off

WEEK 2-4: DESIGN & MVP

· Identify the stakeholders for the pilot.

· A technical design and architecture clearly outlined

· Implementation of the MVP to streamline the hiring process.

WEEK 5: User Acceptance and Go Live

DELIVERABLES:

· Technical Design document

· Architecture diagram

· Our recommendations for the future.

· App Inventory

Assumption: Relevant Licenses are available with partner. Otherwise, license cost will be factored/mutually agreed between both parties before start of the consulting engagement.

At a Glance

Preventive Maintenance Overview Deck: Link to **Preventive Maintenance** _Overview Deck

Screen Shot 1: Link to Folder with Image

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Screen Shot 2: Link to Folder with Image
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