Silver Touch TECHNOLOGIES





PLANNED AND MAINTENANCE

CASE STUDY

Project Information

Client Base
Indonesia

Industry Vertical
Manufacturing

Project Type
SAP B1 Add on

Technology
ASP.NET | .NET Framework 4.0 | MS SQL Server 2008 R 2

Tools
Microsoft Visual Studio

SAP Partner

Project Overview

Planned and Maintenance is web base application with following key features.

1. Master Management
2. Preventive and corrective maintenance Management
3. Auto Scheduling of maintenance
4. Automatic create Inventory Transfer Request, Inventory Transfer & Good Issue.
5. Customize Reports



Problem

Requires making additional applications for input Planned Maintenance data (scheduled maintenance), or maintenance that is accidental & records maintenance history data.PT SPS, requires making additional applications for input Planned Maintenance data (scheduled maintenance), or maintenance that is accidental & records maintenance history data.

Solution

- User has to create 'General Equipment Register' (master equipment with the mapping).

  Mapping for: Plant - Area – Equipment – Part – Spare part

  Mapping for: Part – Task list
- In General, Planned Maintenance divide into 2 main type :
  - **Preventive Maintenance:** Preventive Maintenance is a maintenance that will be done before breakdown / Machine broken happened, usually for this type maintenance, there's already a couple task list that has been set periodically for each part equipment, when the schedule time is met, then the system will automatically create 'work order' document to do the maintenance check.
  - **Corrective Maintenance:** Corrective Maintenance is a maintenance log that is carried out after found an event / malfunction, this corrective maintenance can arise from findings from daily check, or incidental checking found by the factory person during the shift.
- For Preventive maintenance (maintenance by schedule) the system will automatically create a 'work order' document when the trigger activity is set accordingly. This automatically created 'work order' will appear in the list, then a supervisor maintenance will schedule & assign PIC.
- For findings issue/breakage, at the time of daily check / shift, the user will manual input 'work order' the web screen menu. After the work order is created, the same as no.3, the 'work order' will be checked by the supervisor to assign PIC & make a maintenance schedule.
- After a schedule, the supervisor checks whether this maintenance repair, is it requires spare parts / no, if necessary spare parts, then press the 'request spare parts' button and will enter the 'Request Spare Parts' menu.
- When adding the 'Request Spare Parts' document, it will automatically check the budget per area per machine, if it is still in the budget, an Inventory Transfer Request document will automatically be formed from the 'Engineering' warehouse to the 'Workshop' warehouse. If there's no budget then cannot add request spare part, give warning.
- After approval, supervisor / branch manager print document 'request spare part' to give to admin 'technic warehouse' as a base document to issue an item.
- After that, admin 'technic warehouse' cek manually, is the item available / not in the warehouse, if not, then admin 'technic warehouse' will run 'Procedure Purchase Request to HO' this procedure they manually input PR in SAP Business One. If the spare parts available in 'technic warehouse', then admin, input manually in SAP Business One Menu 'Inventory Transfer' copy from 'Inventory Transfer Request' SAP Business One.
- After admin 'technic warehouse' do Inventory Transfer in SAP, then he will print out form 'Inventory Transfer' in SAP as evidence goods issue spare parts, this print out will be signed by supervisor / branch manager as a proof receipt.
- After spare parts ready in 'workshop warehouse' then supervisor / branch manager will input menu 'use spare part' as evidence to good issue spare part for the 'work order'. Then it will automatically crate 'good issue' when spare parts use,and automatically create 'Good Receipt' when spare part waste is back to the warehouse and automatically create 'Inventory Transfer' to Warehouse Repair, if the spare part can be repaired.
- After issuing needed spare part, then continue to input 'Work Order result' this form is an input form for maintenance person entry the result.
- There's approval before the work order can be closed, when 'work order result' created then need approval to 'requestor' of the work order to check the result is it already ok or not, if the task is generated by system, then the approval will be the supervisor.

Result

Login

Login with valid user name and password.

Master Forms

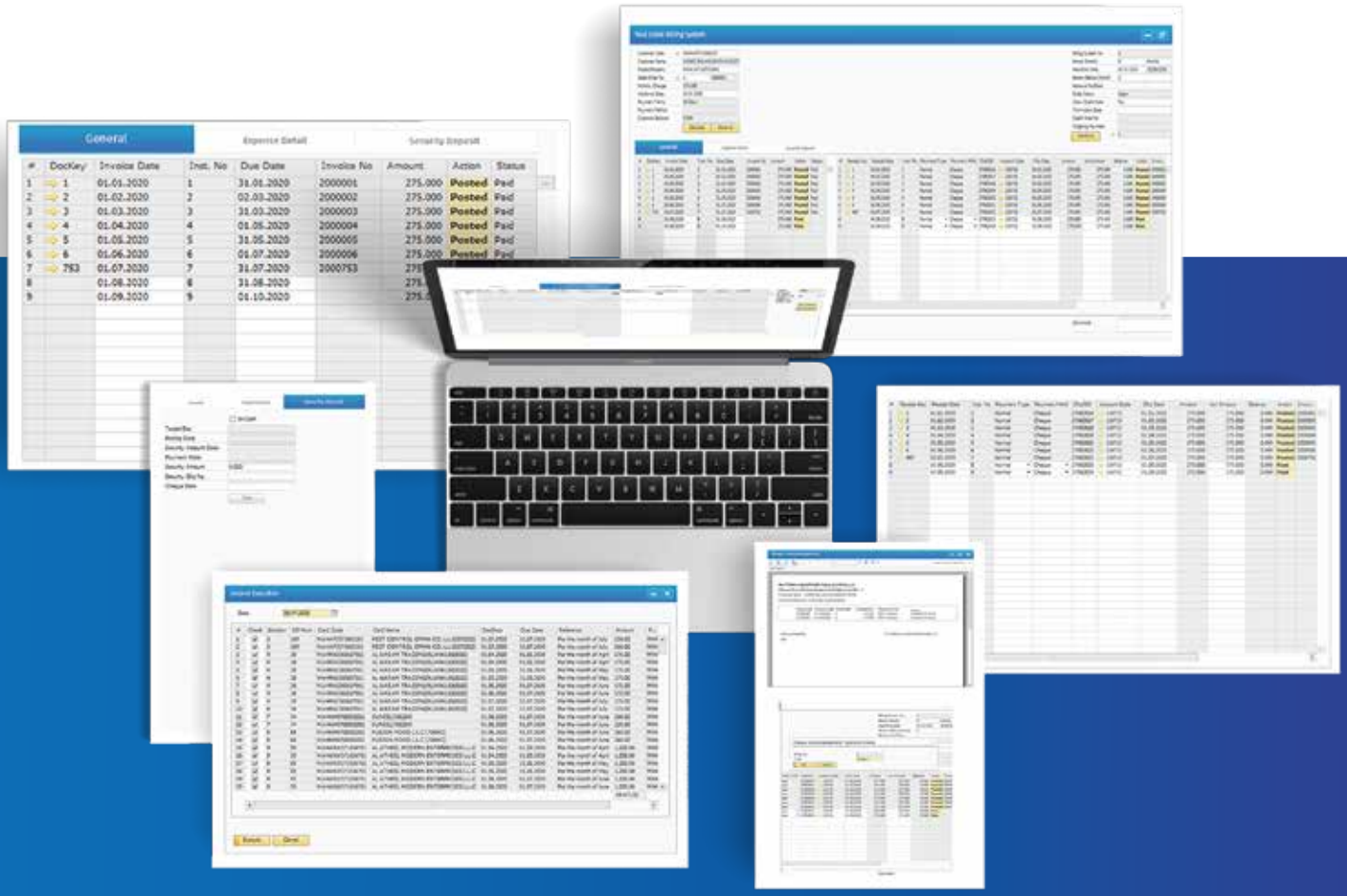
- **Plant Master**
  Add and Update master data of plant using Import excel or manually. Export the data from Grid to excel.
- **Area Master**
  Add and Update master data of Area using Import excel or manually. Export the data from Grid to excel.
- **Activity Master**
  Add and Update master data of activity using Import excel or manually. Export the data from Grid to excel.
- **Budget Master**
  Add and Update master data of budget using Import excel or manually. Export the data from Grid to excel.
- **GER List Master**
  Add and Update master data of GER using Import excel or manually. Export the data from Grid to excel. Go to mapping GER part form after click on part button.
- **Mapping GER & Parts**
  Add and Update master data of mapping GER& parts using Import excel or manually. Export the data from Grid to excel. Go to mapping partspareparts form after click on sparepart link. Go to mapping parts activity form after click on activity link. Delete functionality also be there.
- **Mapping parts spareparts**
  Add and Update master data of mapping parts sparepart using Import excel or manually. Export the data from Grid to excel. Go to mapping partspareparts form after click on sparepart link. Go to mapping parts activity form after click on activity link. Delete functionality also be there.
- **Mapping Sparepart Attachment**
  Add& delete attachment for sparepart and download it from here. It will be open from mapping parts sparepart form.
- **Mapping Parts Activity**
  Add and Update master data of mapping parts activity using Import excel or manually. Export the data from Grid to excel.
- **Clock In GER Running Hours**
  Add Date & running hours as per Plant, branch, area and equipment number for the activity.
- **Master User**
  Add and Update master data of users using Import excel or manually. Export the data from Grid to excel. Delete functionality also be there.
- **Master User Group**
  Add and Update master data of user group using Import excel or manually. Export the data from Grid to e xcel. Delete functionality also be there.
- **Master menu group**
  Display master menu list. Update and delete the menu list from here.
- **Master Child Menu**
  Add and update the menu group and also give the menu rights from here.

Transaction Forms

- **Work Order List**
  Display the work order list and apply to filter over here. Open the work order form for schedule & close the work order. Print the particular work order. Export the work order list from here.
- **Work Order**
  Create a new work order and add the attachment for particular work order. Print the work order functionality also to be here.
- **Schedule Screen of Work order**
  Update the schedule details for particular work order. PIC and Sparepart tab is enable to be here. User can also add PIC details and add the request sparepart from this form.
- **Result Screen of work order**
  Update result details from here and others are same as schedule screen.
- **Request Sparepart**
  Add request sparepart and click on execute than create Inventory request document in sap.
- **Use Sparepart**
  Add quantity for every sparepart and click on execute than this work order will go for approval.
- **Approval Request Sparepart List**
  If monthly budget is less than that Item price with quantity than that request will come in approval request sparepart list.
- **Approval Request Sparepart**
  Click on request number in approval request list form and open this form. When user will approval from here then create an Inventory transfer request document in sap.
- **Approval Work order List**
  Display the approval work order list to be here. When click on approval, go to approval work order form.
- **Approval Work order**
  Approve work order from here and create an Inventory transfer, Goods Issue and Goods receipt document in sap from. Recheck work order also apply from here.

Reports

- **Stock Sparepart**
  Download the report of stock sparepart in PDF and EXCEL format.
- **Daily Work Order Schedule**
  Download the report of work order schedule in PDF and EXCEL format.
- **Daily Work Order Result**
  Download the report of work order result in PDF and EXCEL format.
- **History per Equipment**
  Download the report of history per equipment in PDF and EXCEL format.
- **Report Down Time**
  Download the report of down time in work order in PDF and EXCEL format.



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- SAP Business One Support Service
- SAP Business One Implementation
- SAP Business One Custom Solution

Customer Across The Globe

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- Bangladesh
- Benelux Region
- Indonesia
- South Africa
- United Kingdom
- United States



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NSE | Listed Company

ISO 9001 | ISO 20000 | ISO 27001