

Preventive maintenance of manufacturing lines in a factory

A software product for preventive maintenance of production lines in a factory: register new machines; mark the operation points the scheduled interval for each; day-to-day calendar for the cleaning, inspection and lubrication activities; reports on successful / failed events.

Overview _

Client:

Dalli
Manufacturing company
< 2000 employees

Business case:

+ Digitize the equipment maintenance within a manufacturing plant

Industry _

+ Manufacturing

Services _

+ Custom software development

Project type _

+ SAP Fiori

Technology _

+ SAP HANA XSA
+ SAPUI5
+ HANA
+ Spring Boot
+ Java
+ OData v4

Description _

A software product for preventive maintenance of production lines in a factory. The application allows the engineers to register new machines, mark the points where the operations needs to take place and the scheduled interval for each point, then displays a day to day calendar for the cleaning, inspection and lubrication activities. It generates reports on successful / failed events.

Challenges _

Because final users are no software engineers, the product needs to be as straightforward as possible:

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- + Make it simple and easy to define checkpoints points on a machine, in an explicit visual manner.
- + Never miss a deadline for maintenance activities.
- + Provide real-time statistical reports about each machine's functional / technical parameters.

Solutions _

We met client's high expectations with a series of cross-technology solutions:

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- + Implement a mobile JavaScript application, that allows the engineer to take and import a machine's picture, then mark verification points directly on it.
- + Integrate a visual calendar that manages maintenance planning for each machine, over an extended period of time.
- + Integrate with existing recorded data, pulled from PLC devices, about machine's parameters.