

Intelligent Manufacturing System



Overview

Googoltech's IMS is a cloud intelligent manufacturing system. It is based on the connection of industrial Internet equipment and uses AI, big data and other technologies to realize multi-role real-time collaboration through task-driven. It also makes intelligent recommendations and comprehensive predictions for enterprise manufacturing.

Based on the digital twin technology, IMS collects the manufacturing execution process data comprehensively, designs and plans the digital factory, realizes the comprehensive application of industrial data in the manufacturing execution process, and enables the micro, small and medium-sized manufacturing enterprises to promote the industrial upgrading.

Googoltech's IMS can realize the digitization and intelligence of the production line, and provide real-time production information for the upper-layer application system, which can not only meet the operational needs of large and medium-sized enterprises, but also is the best solution for small and medium-sized enterprises.

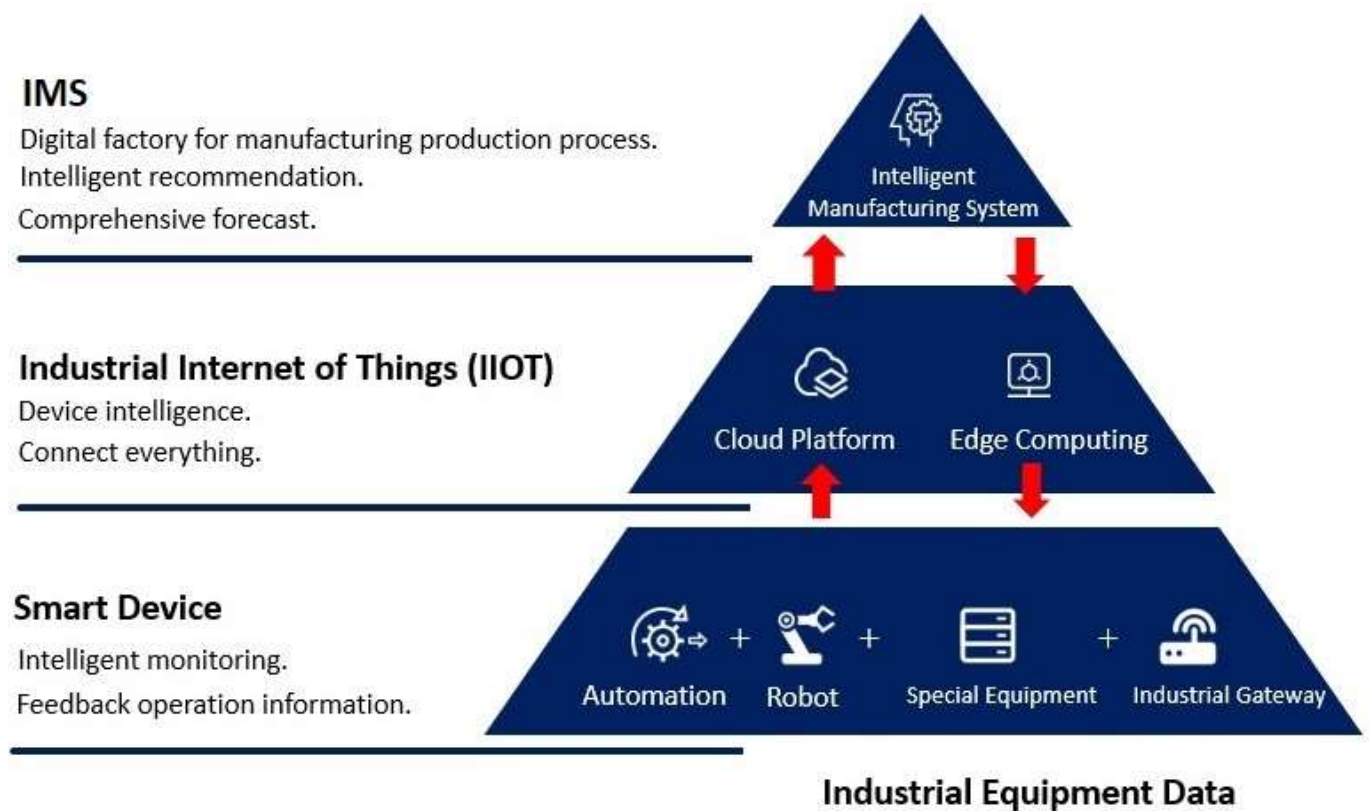
Main Features

- Industrial Internet: Based on industrial Internet technology, digital transformation of production equipment and data exchange are realized, and information islands between equipment, orders, quality, planning, production, and R&D are eliminated.
- SaaS cloud service: No deployment, no maintenance, and light implementation. Googoltech's IMS achieves bank-level access security.
- Digital twins: Dual digital twins, digital equipment and twin workshops.
- AI/BI Ready: Complete data annotation in the process of using the system, provide the basis for data mining and intelligent application, and design the production execution system by system thinking.
- Real-time progress tracking and forecasting: Based on the equipment IoT, real-time tracking and forecasting of production progress, and timely delivery reply.
- Real-time quality monitoring and abnormal records: Based on the equipment IoT and according to the process requirements, the production process is comprehensively monitored to find problems in a timely manner and improve product yield.

Main Features

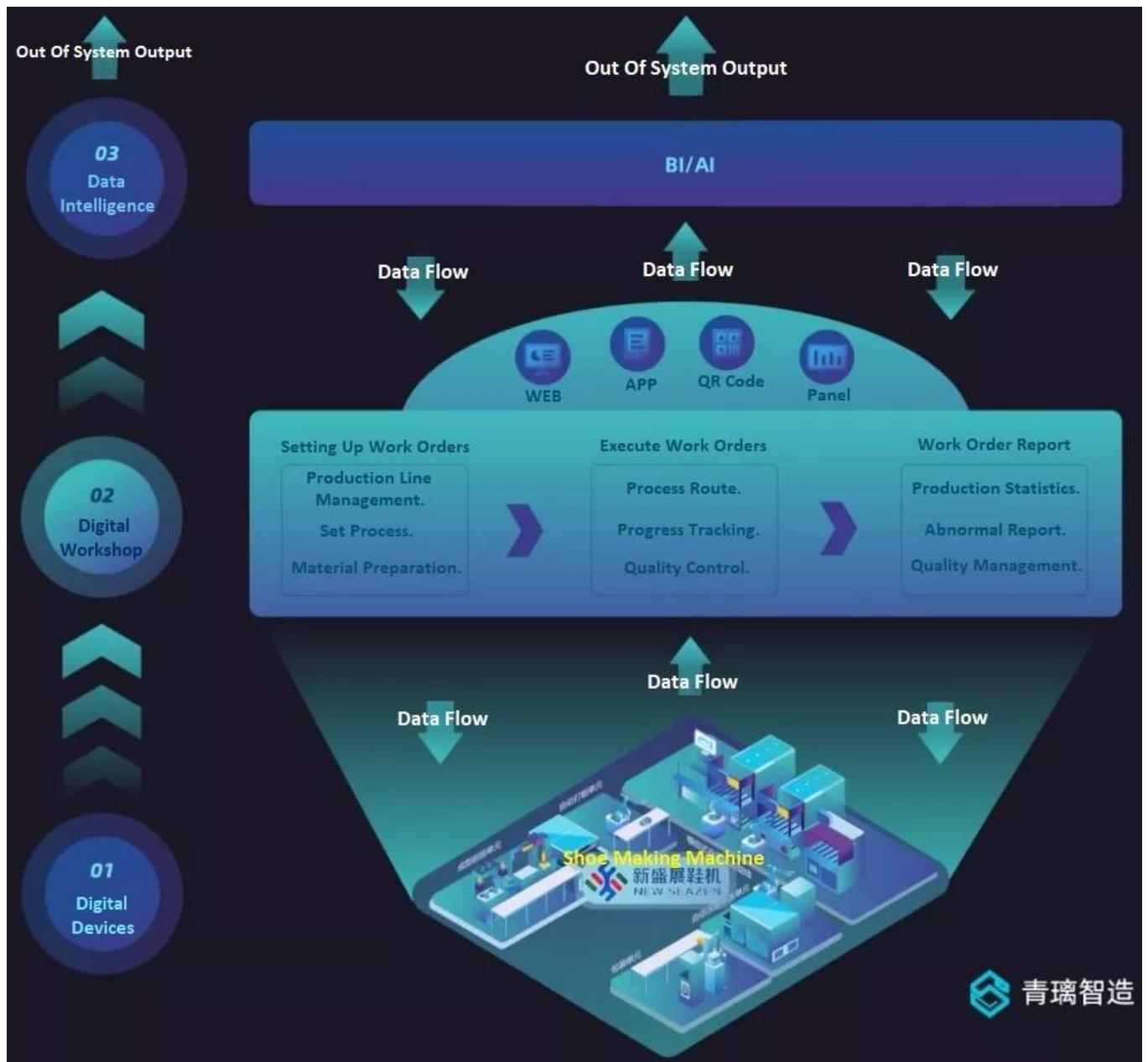
- Manufacturing execution closed loop: With production execution process control as the core, it can monitor to every process, improve the intelligence of the production line, achieve the purpose of self-diagnosis and high collaboration, and complete manufacturing execution closed loop.
- Flexible and fast multi-access interface: Mobile App, web, QR code, panel and other system access methods, which can be used flexibly, efficiently, and at low cost.

System Structure



Introduction

✧ IMS (Intelligent Manufacturing System) Digital Factory:



Driven by industrial Internet technology, the digital twin system is developed and designed through the two-way real mapping and real-time interaction between the physical workshop and the virtual workshop. Realize the closed loop production and manufacturing of the factory production process control. Provide intelligent recommendation and comprehensive prediction services for iterative optimization of the production process.



Introduction

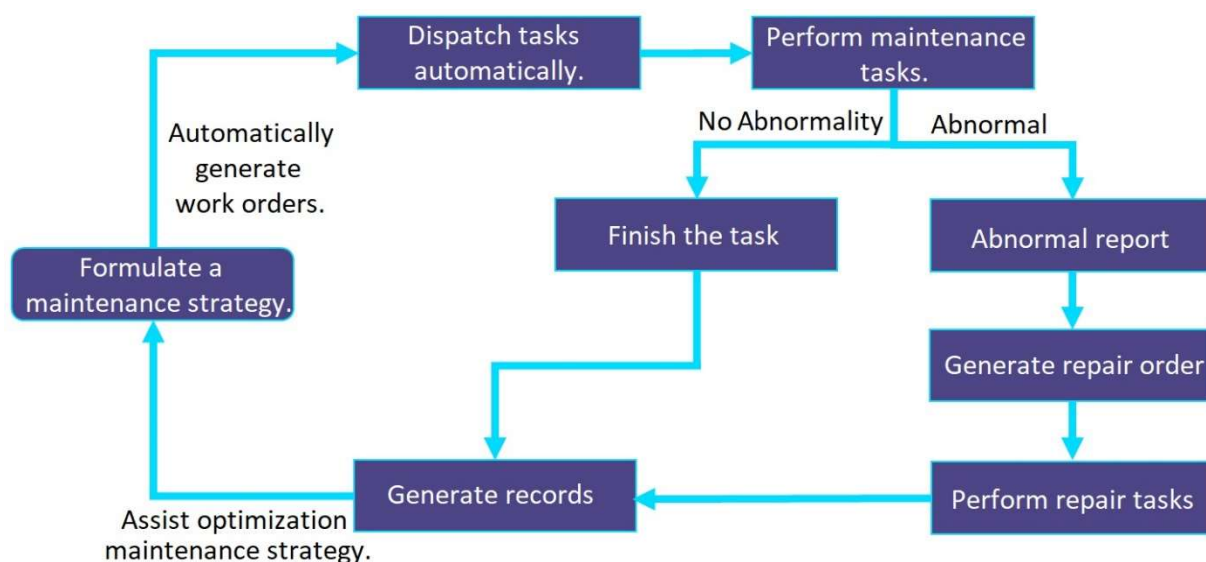
✧ System Functions:



✧ Equipment Operation and Maintenance Function Module:



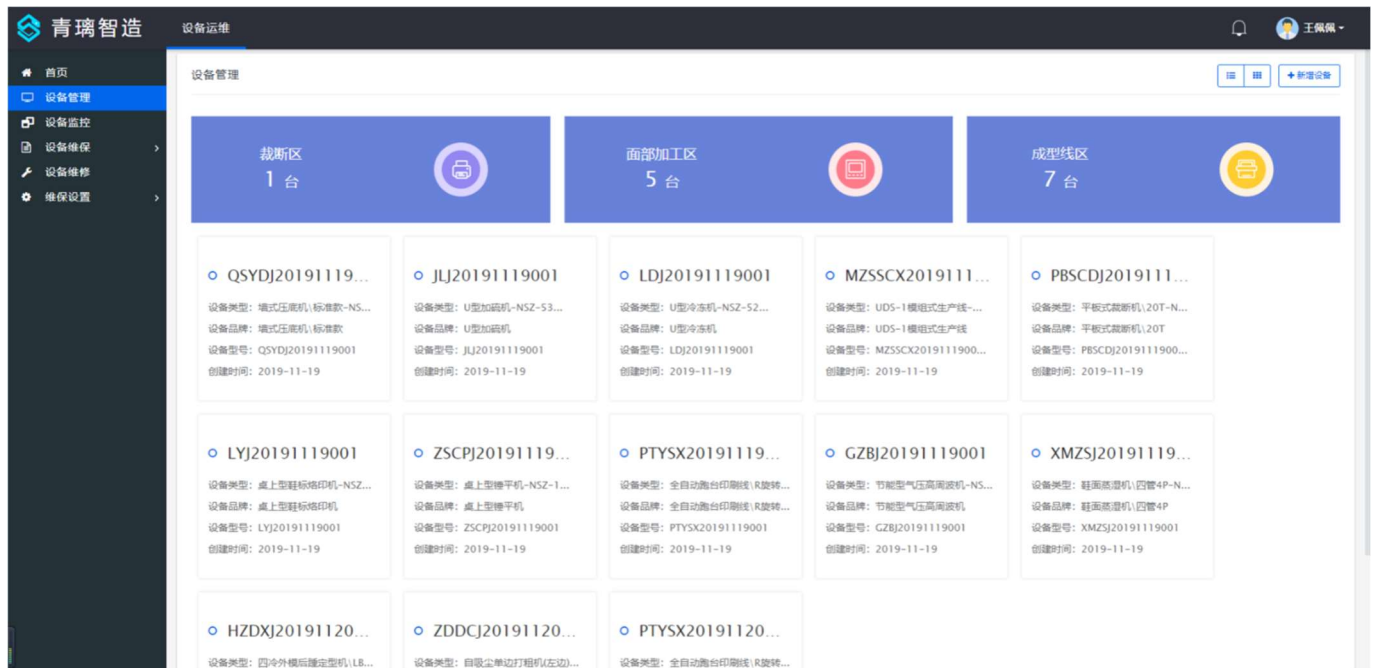
✧ Equipment Operation and Maintenance Management Process



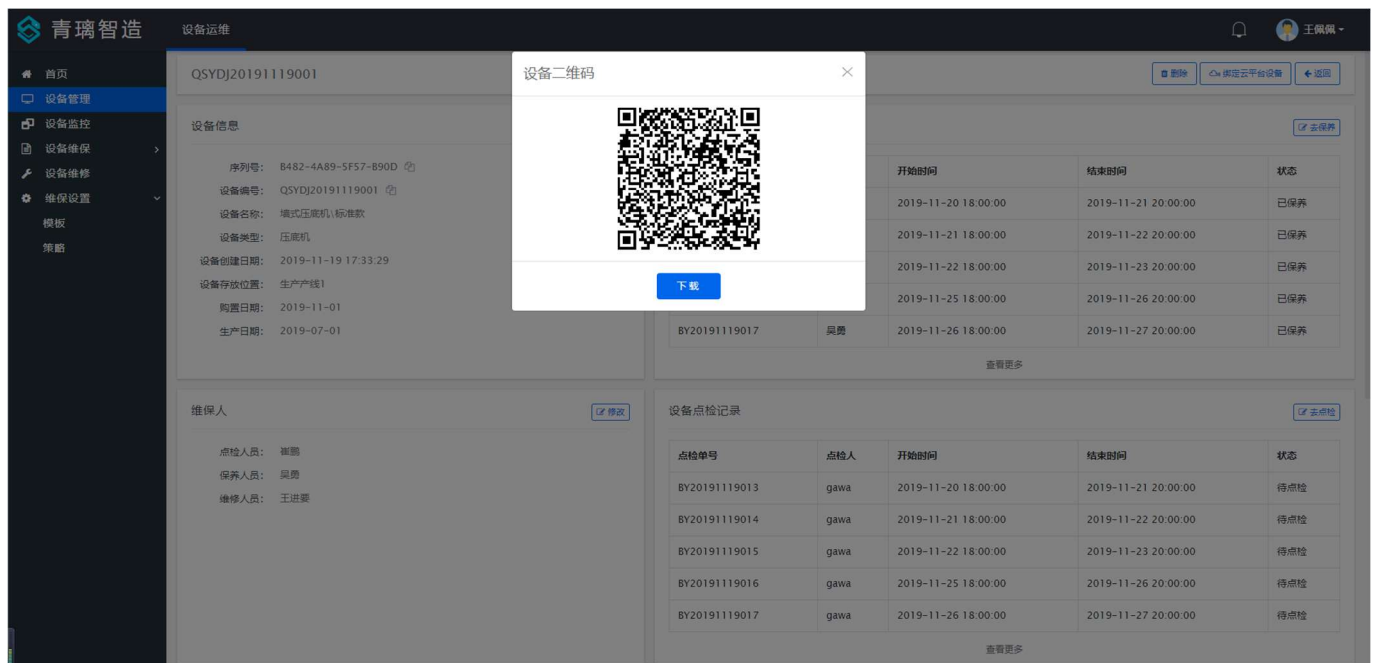
Introduction

✧ Equipment Operation and Maintenance Management Process

1. Manage equipment according to production line partitions, and quickly locate equipment location.



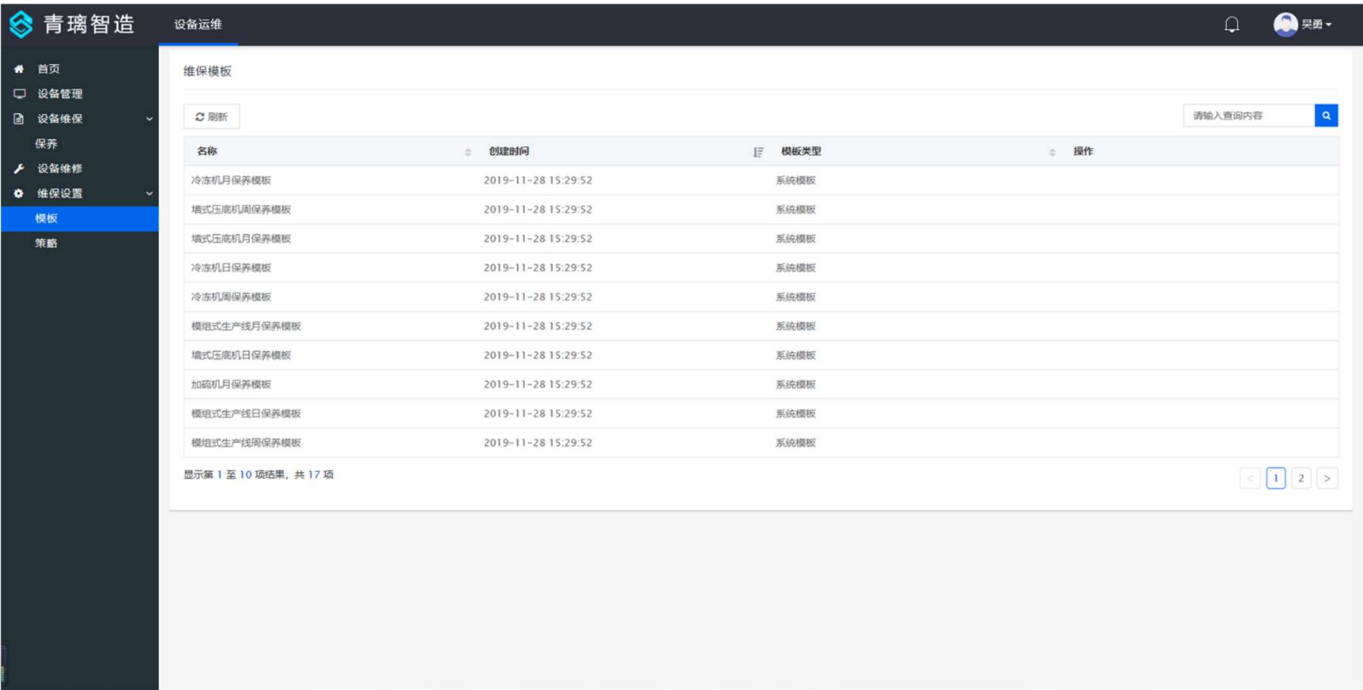
2. QR code management, convenient for each manager to view the equipment life cycle information.



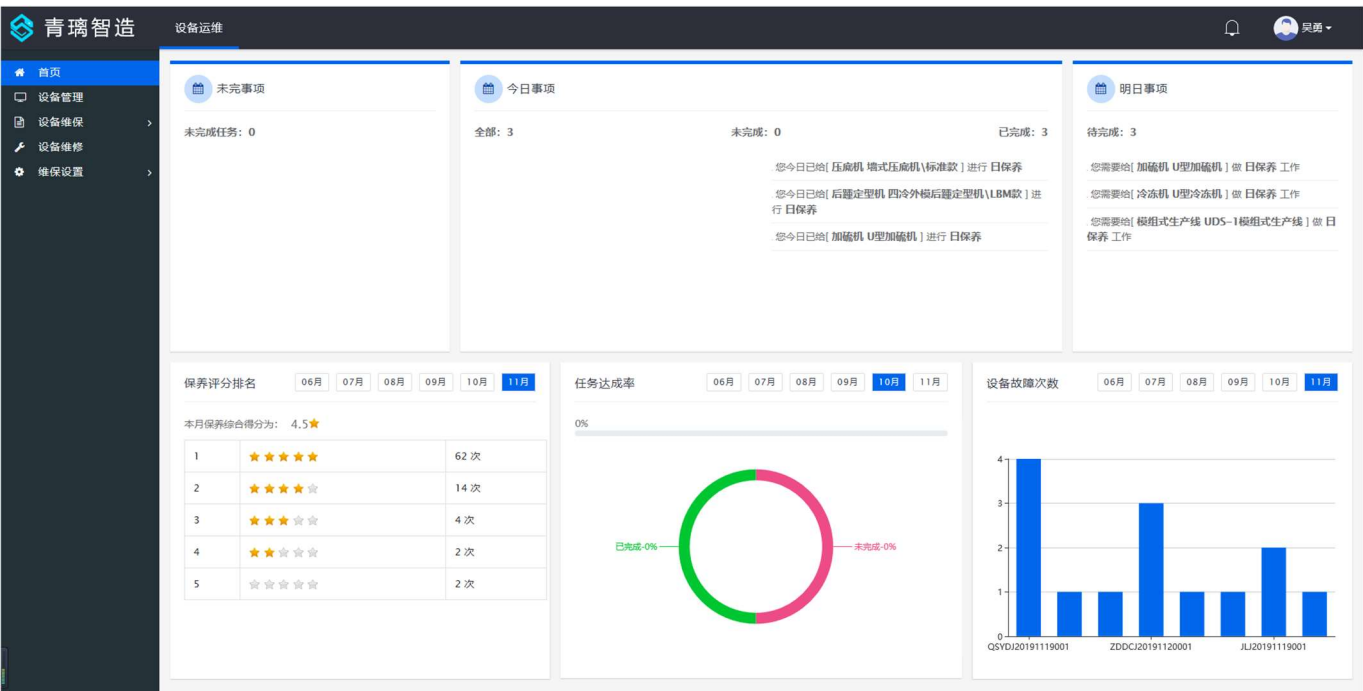
Introduction

✧ Equipment Operation and Maintenance Management Process

3. Professional equipment maintenance template, which can help small and medium-sized enterprises to solve the shortcomings of maintenance and quickly start equipment operation and maintenance.



4. Push personal tasks in real time to ensure timely execution of daily tasks.



Introduction

✧ Equipment Operation and Maintenance Management Process

5. Abnormality is found during maintenance, the App reports abnormal conditions immediately, generates repair work orders to form a closed loop.

青璃智造

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保养 — 加碱机日保养模板

返回 保存草稿 保养完成

加碱机日保养模板

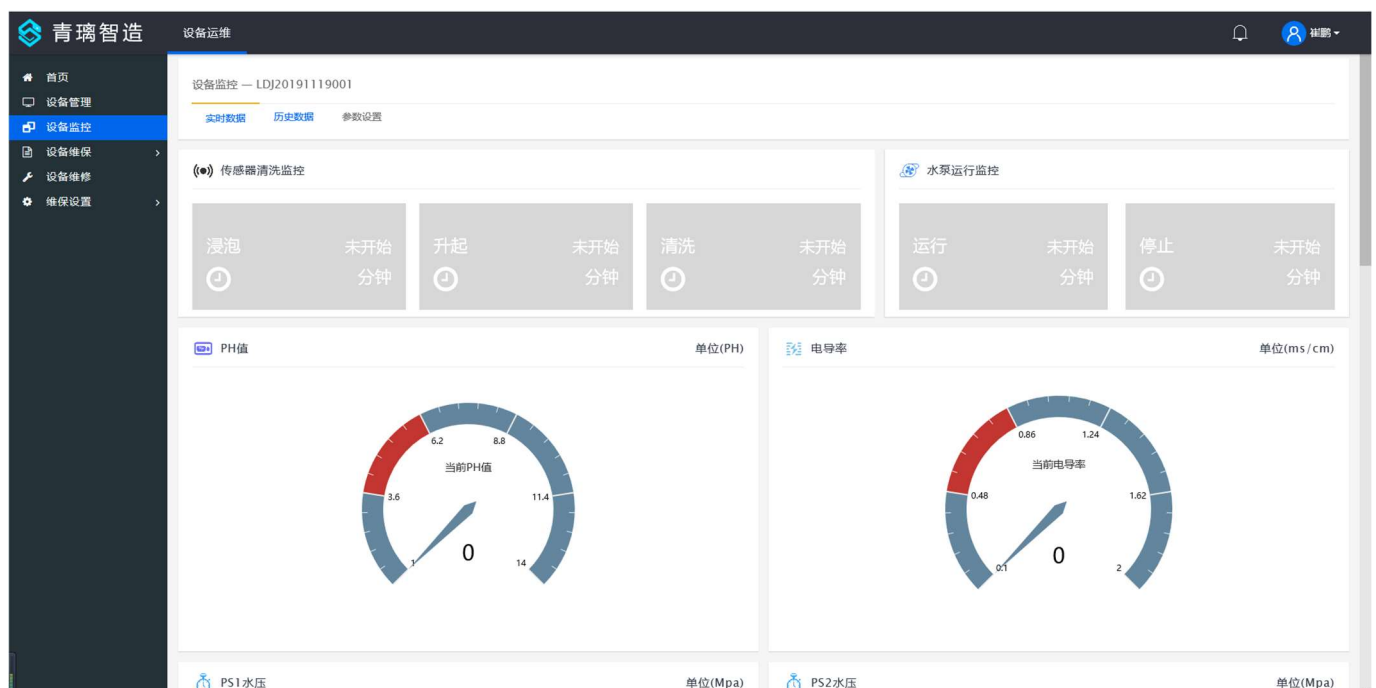
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保养设备: JJJ20191119001

序号	部位	附件	工作	SOP	工具仪器	保养标准	是否异常	是否完成	备注
1	机器外部、台面		清洁		软布		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="台面整洁"/>
2	不锈钢网带		清洁		软布		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text"/>
3	电箱表面		清洁		软布		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text"/>
4	部件连接		牢固性				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text"/>
5	水箱		检查足够水量				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text"/>
6	调压过滤器		排水				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text"/>

6. Managers can check the equipment status anytime and anywhere.

Real-time monitoring of equipment status, intelligent early warning, and predictive maintenance.



Application

- Intelligent Shoe Factory
- Intelligent Machining Production Line
- Intelligence Production Textile Industry
- Food Intelligent Packaging Industry



Intelligent Shoe Factory



**Intelligent Machining
Production Line**



**Intelligence Production
Textile Industry**



**Food Intelligent
Packaging Industry**



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