System Quality Control by Conference (SQC)

This document describes a quality control system based on step-by-step validation and conference during the production process. The main objective is to ensure traceability, accountability, and process reliability across all production stages.

Project Overview

The SQC system is designed to control and validate production steps through serial number tracking, operator confirmation, and shift-based dashboards. Each step must be confirmed individually, ensuring process compliance and preventing progression with missing validations.

Main Features

- Step-by-step validation per serial number
- Shift-based production goals (targets)
- Automatic dashboard with completion percentage
- Visual status indicators (green, red, pending)
- User identification and confirmation traceability
- Historical reports per shift and per step

Gate Concept

The Gate interface acts as the final validation point, allowing authorized users to identify gaps in the process and confirm missing steps when necessary. All confirmations are logged with date, time, and operator ID.

Purpose of This Repository

This repository contains a simplified and demonstrative version of the system, intended as a technical reference and proof of concept for a larger industrial quality control solution.