IOT & WEB APPLICATION

Coretest

PLN Safety Garment Testing System - Real-time Resistance Measurement Web Application

PROJECT OVERVIEW

Coretest adalah sistem pengujian baju safety PLN berbasis web untuk menentukan kelayakan penggunaan baju pelindung berdasarkan nilai resistansi. Sistem ini mengintegrasikan hardware pengujian dengan platform web, memungkinkan pengukuran resistansi dilakukan secara real-time dan hasilnya langsung tersimpan di server. Baju safety PLN yang memiliki nilai resistansi sesuai standar akan dinyatakan layak pakai, sedangkan yang tidak memenuhi standar akan ditandai sebagai tidak layak.

KEY FEATURES

- **Real-time Measurement** — Pengukuran resistansi via MQTT
- **Data Storage** — Penyimpanan di MySQL server
- **Compliance Report** — Generate laporan kelayakan
- **Safety Standard** — Validasi standar PLN otomatis

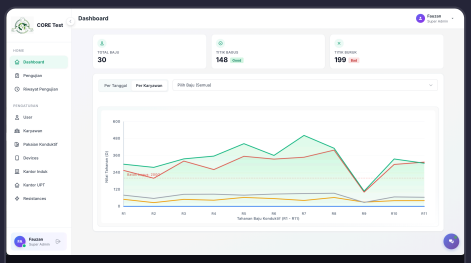
TECH STACK

ESP32 IoT · MQTT Protocol · Golang Backend · MySQL Database · Nuxt.js Frontend · Tailwind Styling · HTML Markup · CSS Styling · JavaScript Programming

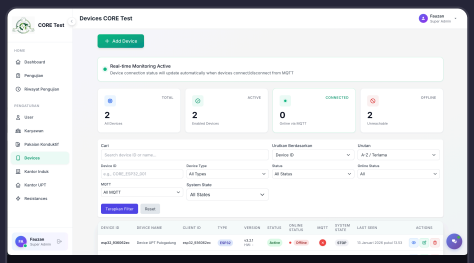
SYSTEM ARCHITECTURE

ESP32 Sensor → MQTT Broker → Golang Backend → MySQL Database → Nuxt.js Frontend

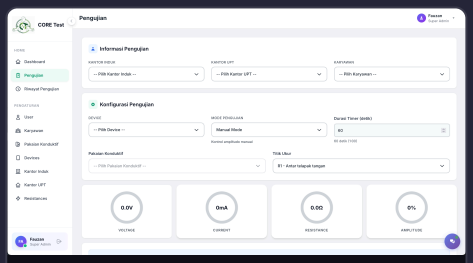
SCREENSHOTS



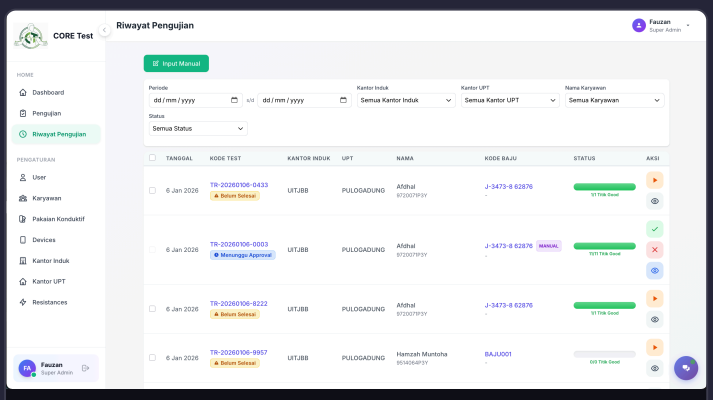
Dashboard Overview



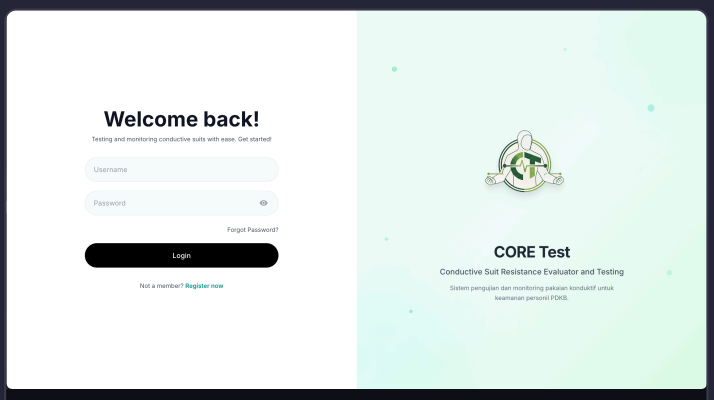
Measurement Interface



Report Generation



Data Management



System Config

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