





sAlns.digital

Digitalizing the Laboratory, Bridging the Gap with IoT Integration

(Theme: Building Intelligent Products and Platforms)

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Problem Statement



- Laboratories play a vital role in research, but many are still reliant on manual data entry and outdated processes, hindering efficiency and collaboration
- Conventional laboratory instruments often lack connectivity, making data collection and analysis cumbersome and time-consuming

Solution Overview



 sAlns.digital is a breakthrough solution that enables any laboratory instrument, even conventional ones, to seamlessly transmit data via IoT. There will be at least one sAlns.digital controller with several sensor modules.

Value Proposition



- sAlns.digital will revolutionizes laboratory operations, improving data accuracy, and streamlining research processes
- Benefits:
 - More than 50% reduction in data entry errors
 - Accelerated research with real-time data access
 - Enhanced collaboration through shared data repositories

Feasibility & Uniqueness



Implementation:

- The sAlns.digital's plug-and-play IoT modules easily attach to lab instruments
- Seamless integration with cloud platforms for data storage and analysis

Differentiator:

- sAIns.digital is the first universal IoT solution for laboratories, bridging the gap between conventional and modern instrumentation
- Cost-effective and user-friendly, sAlns.digital sets a new industry standard

Unique Aspects:

- Universal compatibility with existing lab equipment
- Real-time data transfer to cloud-based platforms
- Integration with data analytics tools for instant insights

Impact & Sustainability



Impact:

- Significant reduction in paper usage and waste
- Accelerated research leads to faster discoveries
- Enhanced data-driven decision-making in laboratory operations

Sustainability:

- Reduced environmental impact through paperless data collection
- Ongoing data analysis leads to resource-efficient processes

Meet sAlns.digital team ...





Danny Ismarianto Ruhiyat

AloT Engineer

- The word science in Bahasa Indonesia is "sains". Yes, there is Al in sAlns; because sAlns.digital provide Artificial Intelligence based solutions, mostly using "Computer Vision" to replace the eye's function in seeing the instrument output.
- sAIns.digital can modernize laboratories by providing a feasible and unique solution that enhances efficiency, collaboration, and sustainability.
- Meet Danny Ismarianto Ruhiyat a.k.a danito the solo fighter in sAlns.digital team.