

# ***IOT-BASED SMART LOCKER SYSTEM IN FITNESS CENTER*** **SISTEM SMART LOKER DI PUSAT KEBUGARAN BERBASIS IOT**

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## ***ABSTRACT***

*In today's digital era, the need for secure and efficient storage systems in public places such as fitness centers is increasing. This research will design and develop a smart locker system using a NodeMCU ESP8266, RFID sensors, and a web-based admin panel. Users can access and use their own lockers through registered RFID cards, while the admin can monitor usage in real time without manual recording. Tests conducted to determine the system's functionality indicate that it can perform well both in reading valid RFID cards and rejecting unregistered ones. The developed web panel is very useful for administration and monitoring processes. The limitations of this system are its web interface, which is currently not optimal for all devices, and it currently only runs on a WiFi network connection. This system offers an effective and efficient way to manage locker usage within fitness centers.*

***Keywords: IoT, monitoring, fitness center lockers, NodeMCU, RFID, Web.***