

FitSense: Smart Gym Management System

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Internet of Things



Use case:

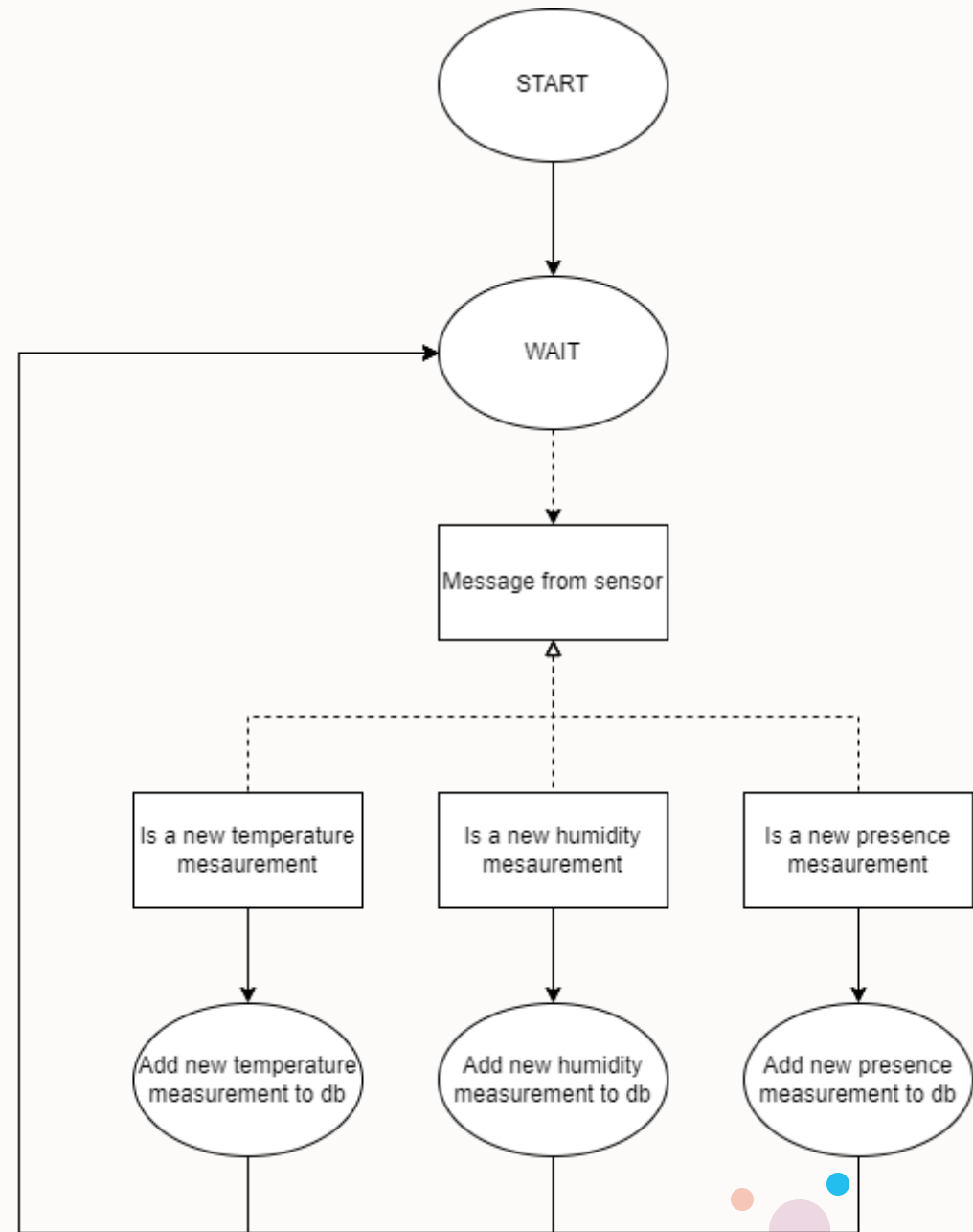


The project is about smart gym and is a system that allows people to monitor the status of gym rooms by automatically managing **air conditioner system**, **dehumidifier system** and **presence detection system**.

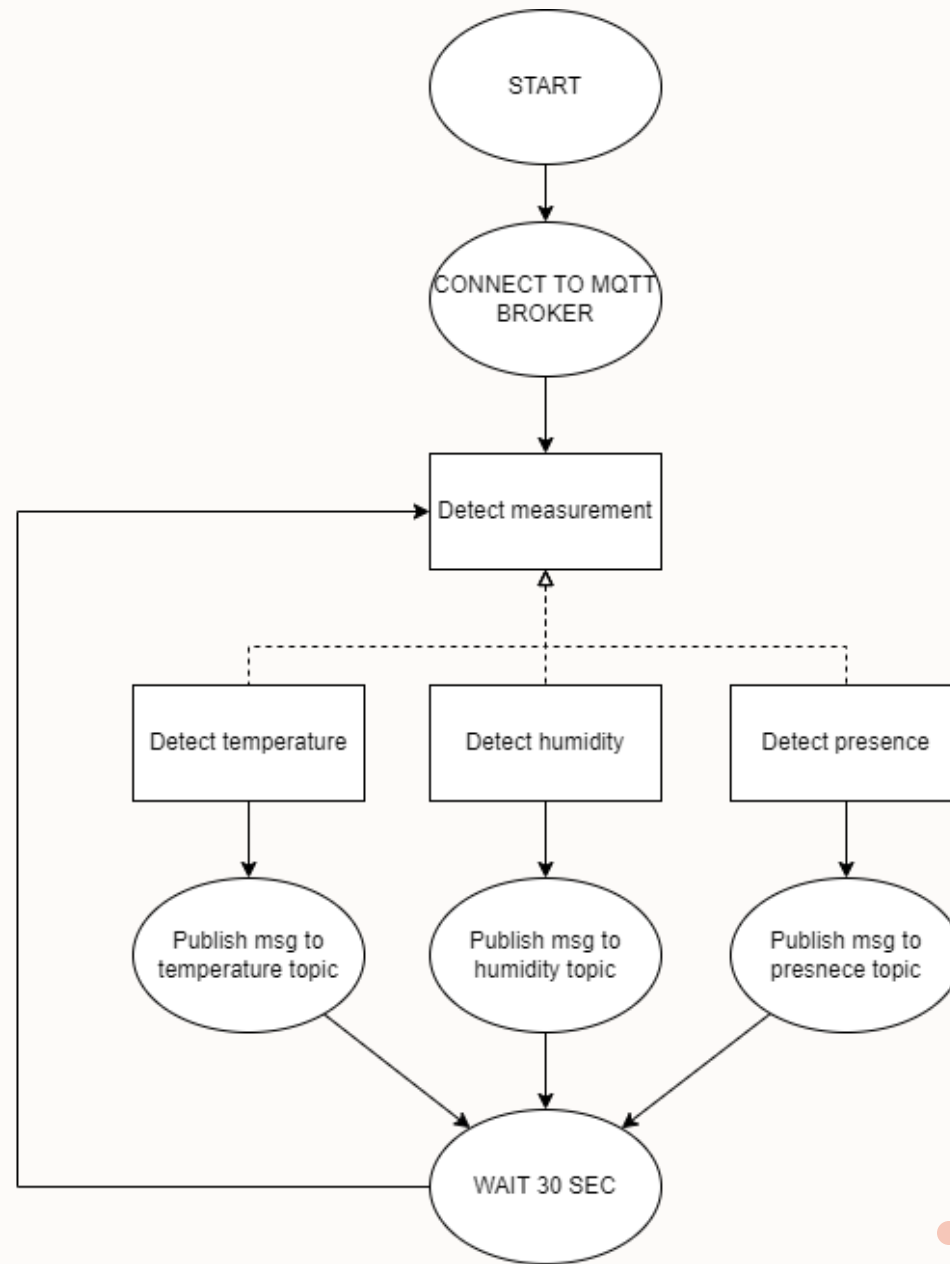


The network consists of a **border router**, an undefined number of scattered **nodes** throughout the gym areas and two applications which manage all nodes (**Cloud application** and **Remote control application**).

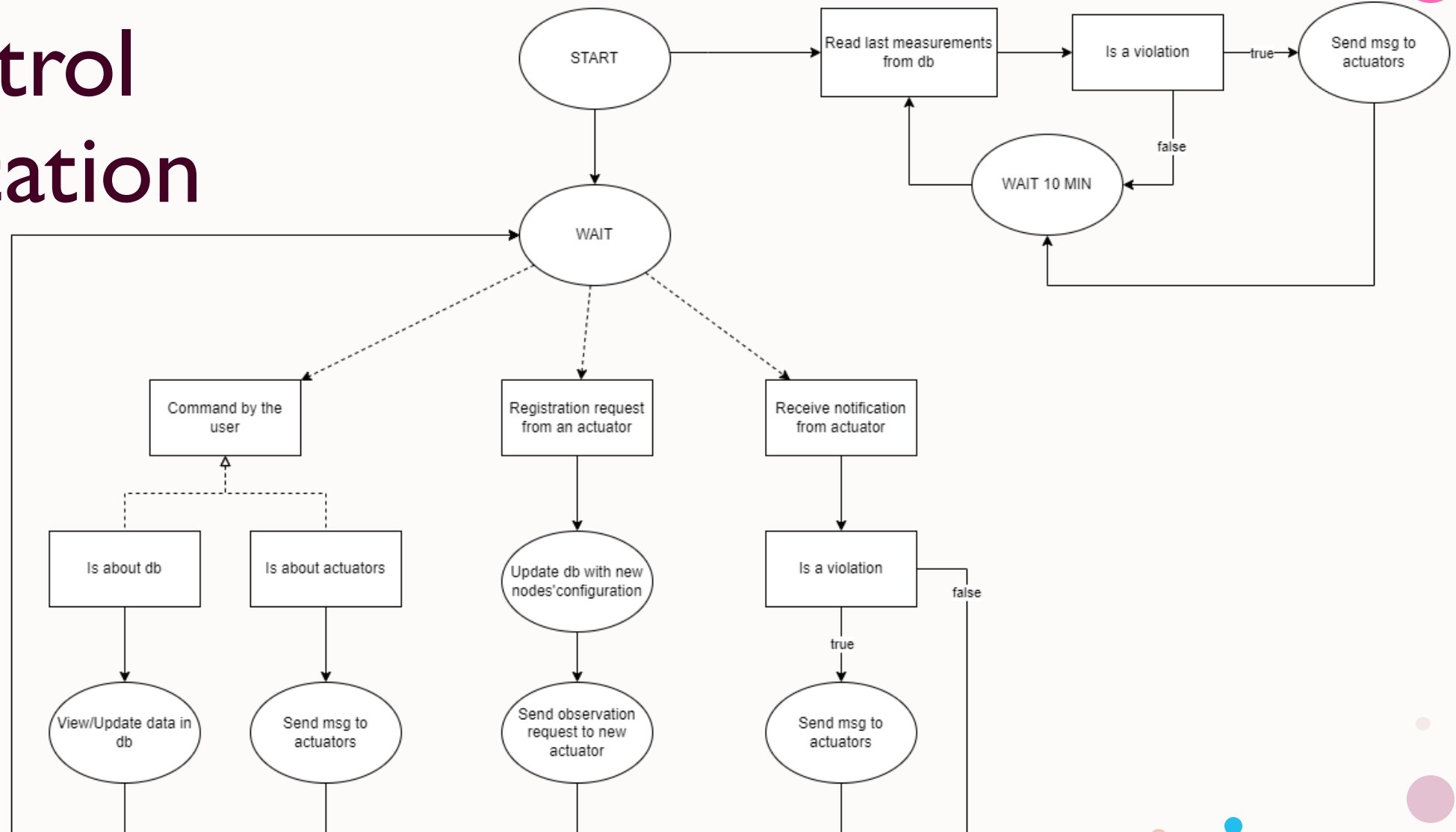
Cloud application



Sensors



Remote control application



Actuators

- Res_configuration
- Res_temperature
- Res_humidity
- Res_presence
- Res_air_conditioner
- Res_dehumidifier
- Res_semaphore

