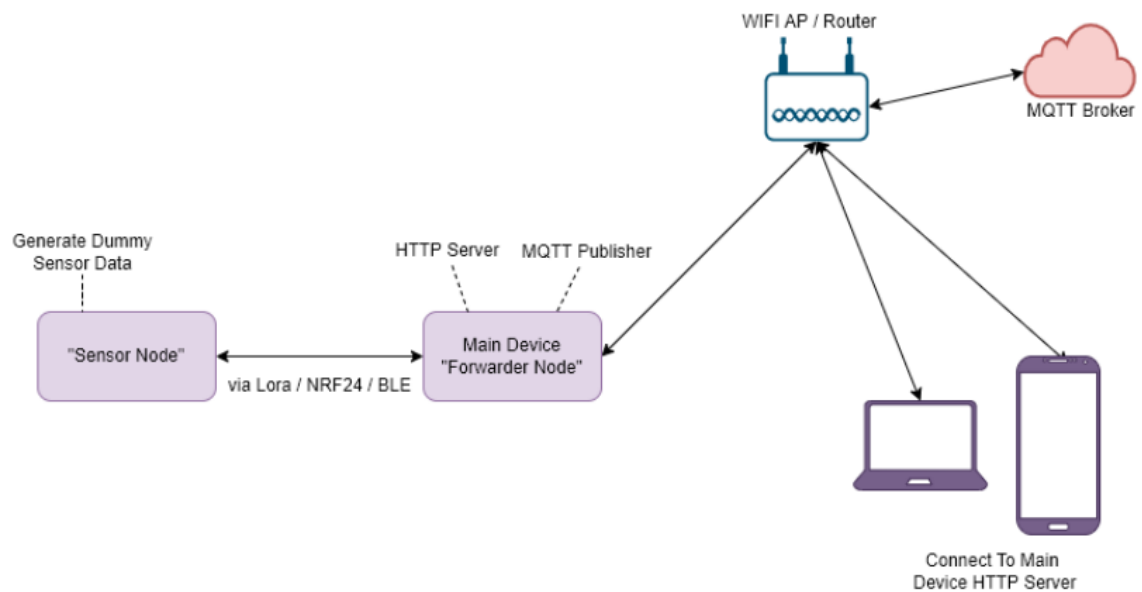


Firmware Engineer

- Story: Create a Forwarder Node that acts as an intermediary for offline Sensor Nodes, and the cloud. Communication between Forwarder Node and Sensor Nodes are via a wireless protocol.
- Diagram:



https://lh5.googleusercontent.com/IW8f7urBH8WiY2c5G8eB_-GrSoo5WSiQhJWKtmtF5q0bLytNDJp0x48nO5_iFvvlmXDGAXWmbAr5eEFhs3rvuxViiI2bzaKBs6kB_GLymeDxMNkwefaok7sSTbTOjhzUiNqQM-KTbFuWRnXPUuqAUw

- Designing set of MQTT topics to send data and receive commands to the MQTT broker
- Set up another node that acts as a Sensor Node, that will request its data to be pushed to the cloud via Forwarder Node. Communication between sensor node and forwarder node must use any means of wireless protocol other than WiFi (example: BLE, LoRa, NRF24, Bluetooth)

- Goals
 - Semua fungsi berfungsi dengan semestinya
 - Wajib dokumentasi endpoint dengan format OpenAPI/swagger (**API.yaml** / **API.md**)
 - Petunjuk penggunaan dan instalasi di [README.md](#) yang memudahkan
- Nice to have:
 - Async webserver
 - Forwarder Node acts as a local HTTP server, connected as a local WiFi client, enabling it to receive commands by presenting a simple web page (note: Forwarder Node is not a WiFi access point)
 - Creating a simple backend to save the data into a database (implement with your favorite tech stack)
 - Contoh: backend dibuat menggunakan Node-Red, database yang digunakan adalah influxdb; backend yang digunakan adalah Flask, database yang digunakan adalah mysql;
 - Using well established libraries for the wireless protocol
 - Pembagian Kode dan Modul (Struktur)
 - Commit History (<http://karma-runner.github.io/6.3/dev/git-commit-msg.html>)

Waktu pengerjaan 3 hari dari email dikirimkan dan dikonfirmasi balik oleh Anda dengan membalas emailnya. Hasil tugas **disimpan di Github private lalu kirimkan pranalanya** (termasuk deployed host apabila ada) melalui email ke ardi.dwi@efishery.com , royyan.dzakiy@efishery.com , @iqbal@efishery.com , mohamad.damba@efishery.com , agustio.sahela@efishery.com Bila ada pertanyaan atau diskusi bisa membalas email ini.