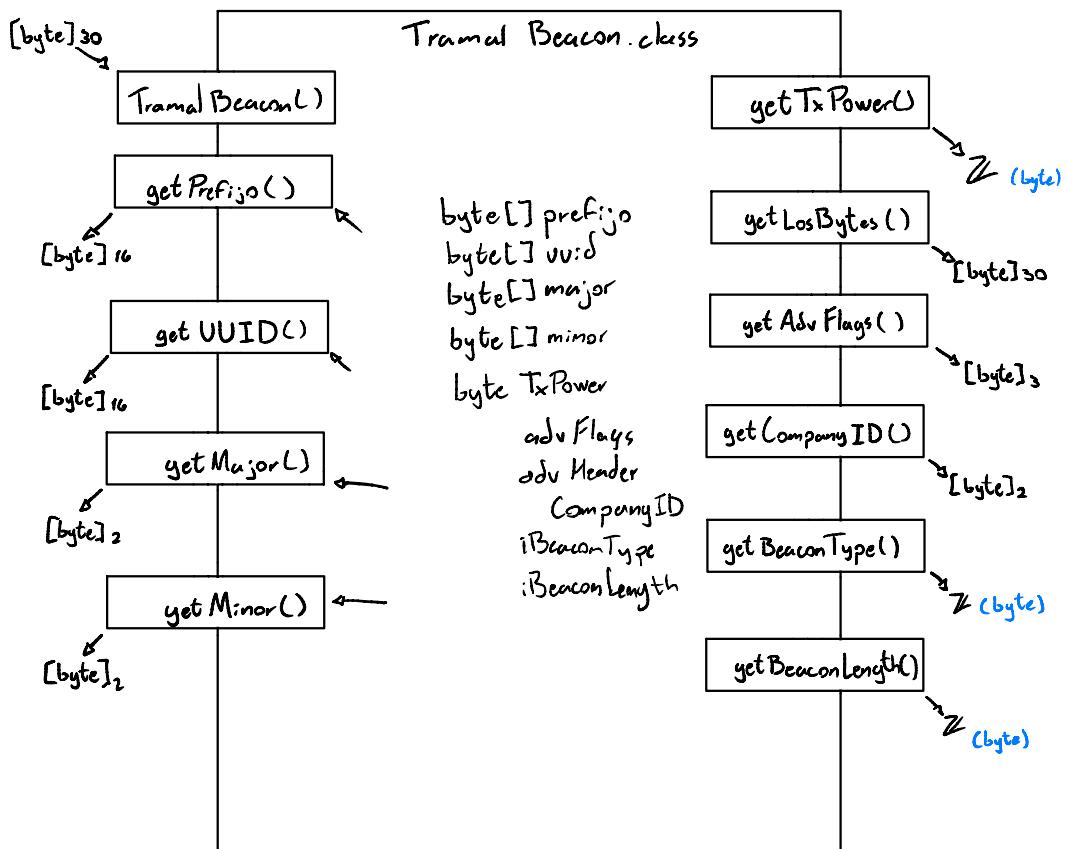


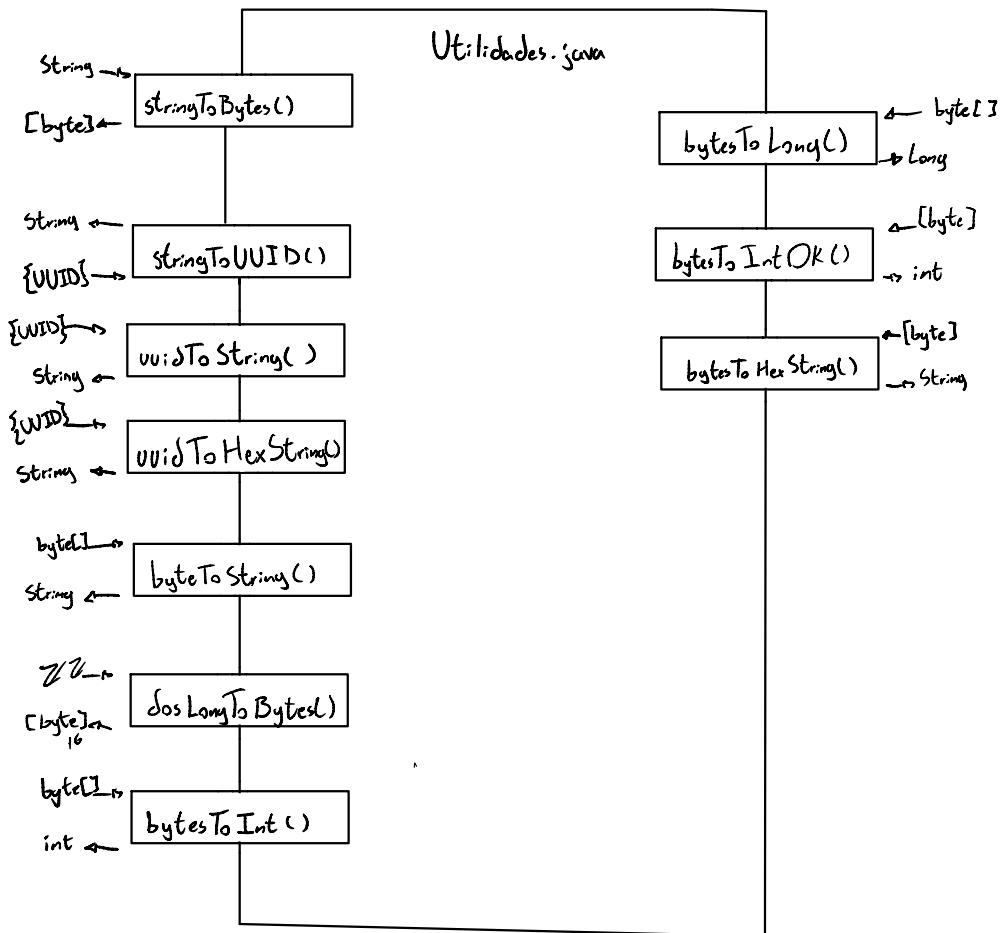
## Código Android

- Clases Java
  - Main Activity
  - Trama Beacon
  - Utilidades
- Trama Beacon, Representa una trama Beacon a partir de un array de bytes. El Beacon envia su informacion en una trama asi:

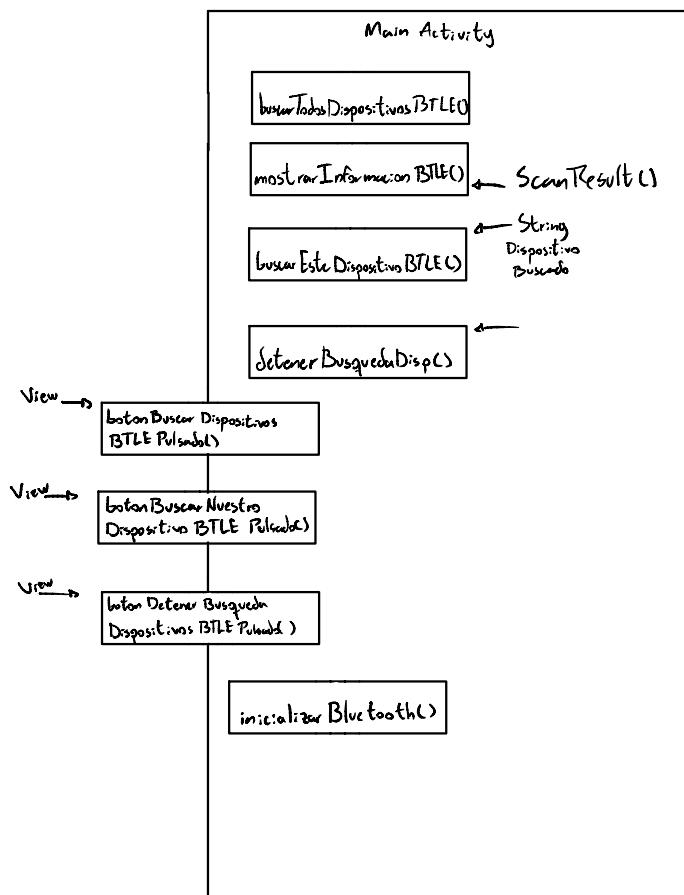
[Prefijo (9 bytes) | UUID (16 bytes) | Major (2 bytes) | Minor (2 bytes) | TxPower (1 byte)]



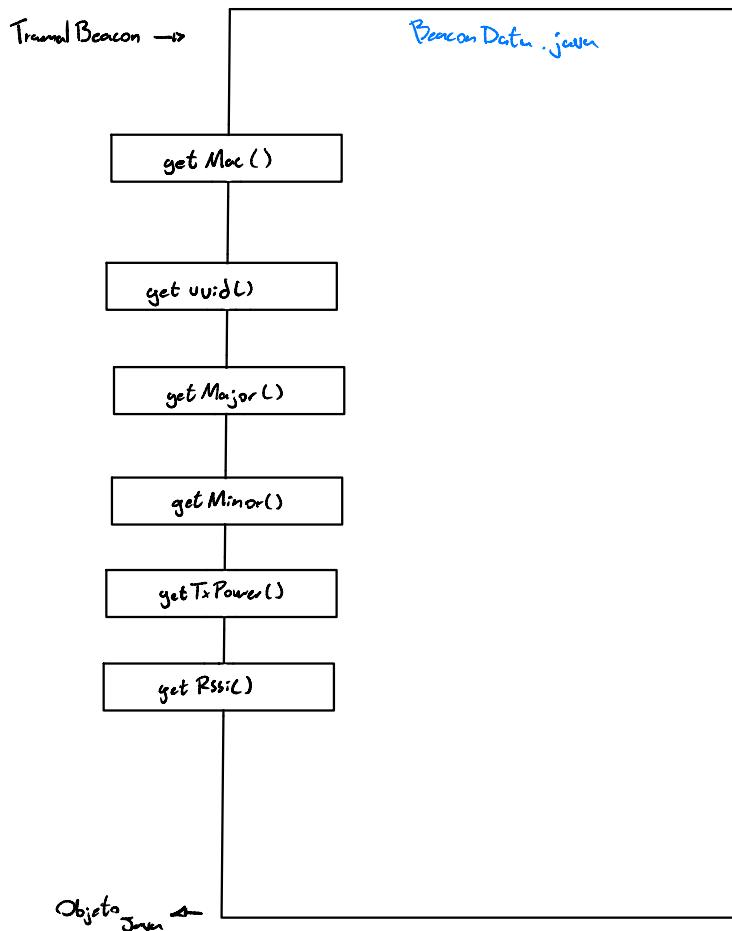
## Utilidades



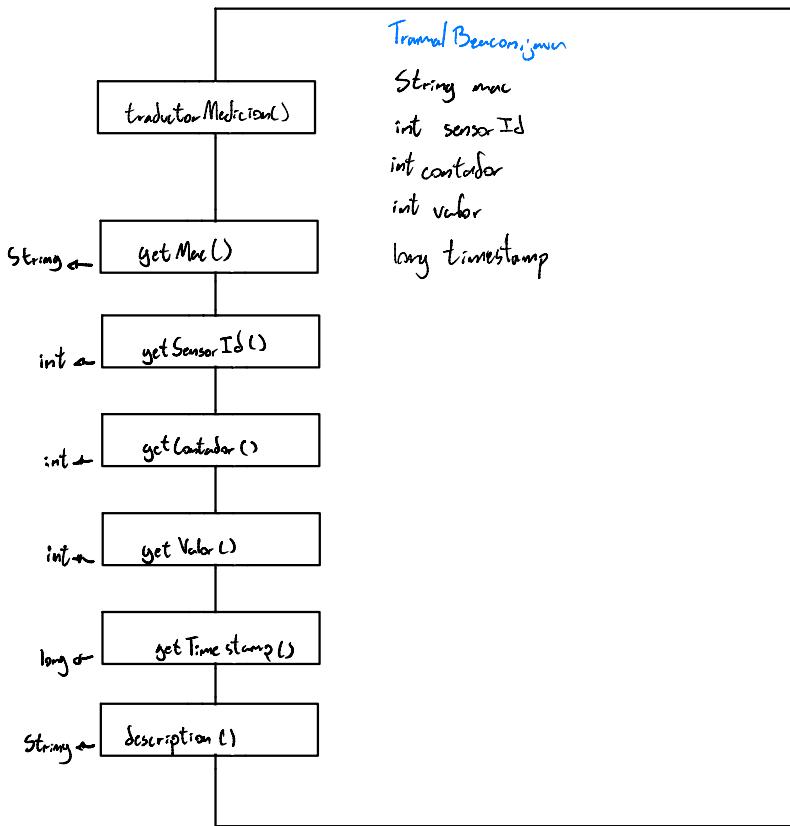
## Main Activity



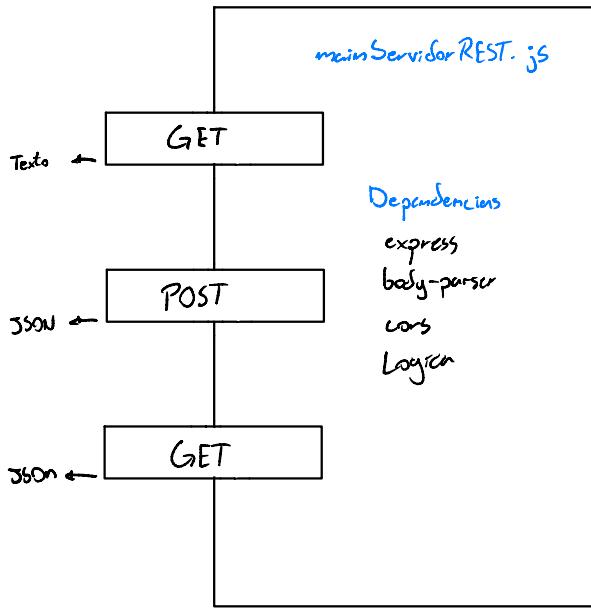
## Beacon Data



## Traductor Medicion

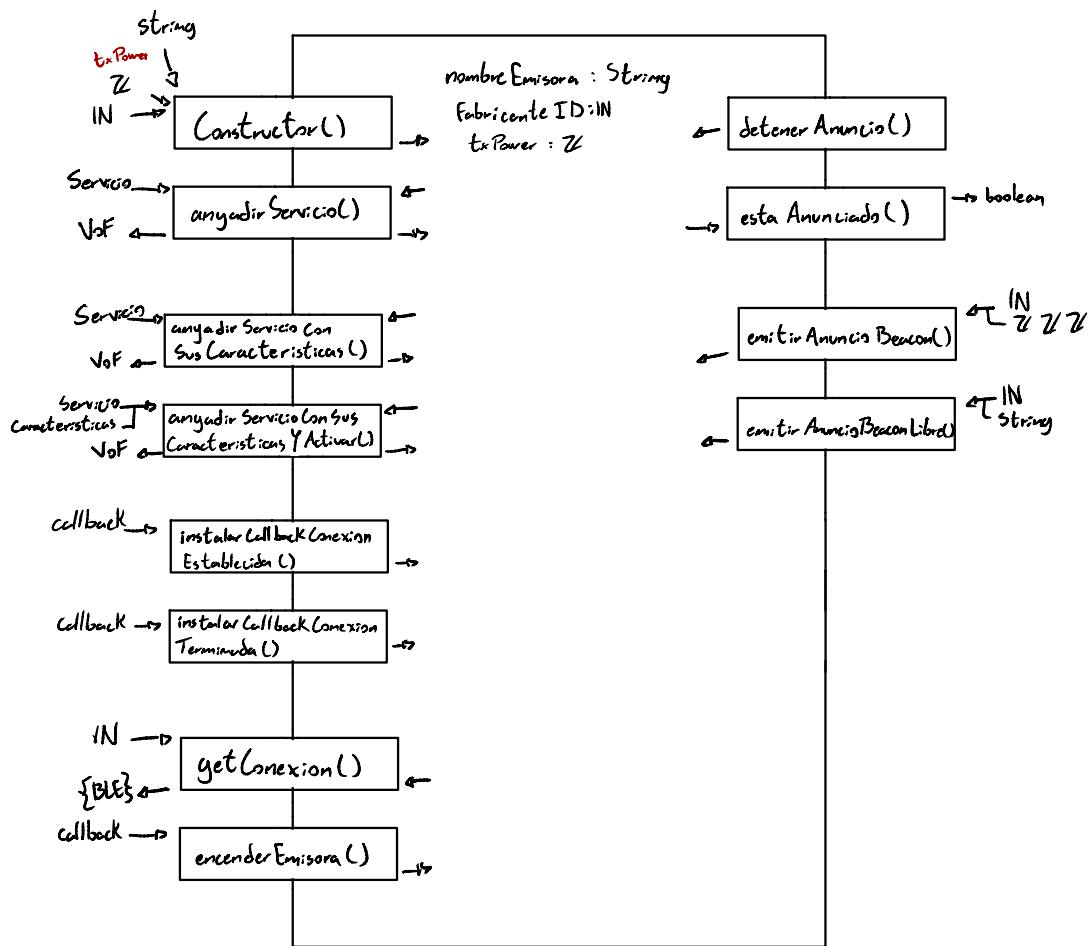


## Servidor Rest

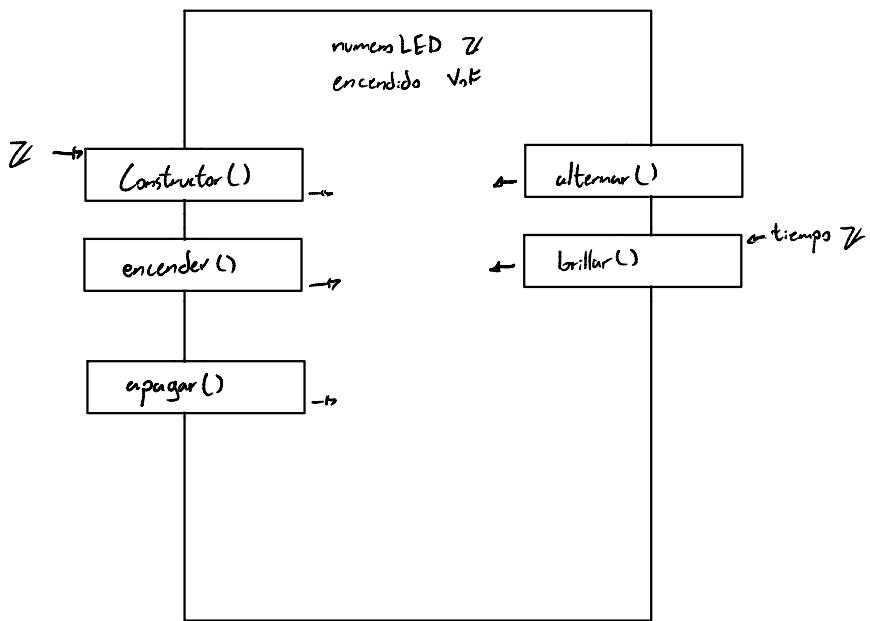


# Arduino

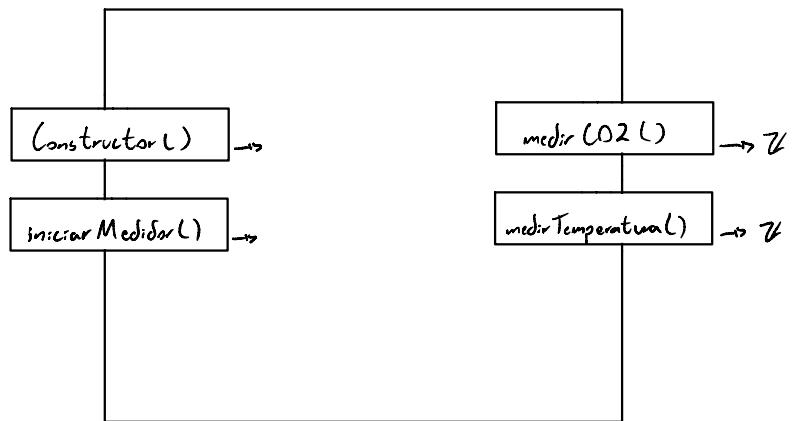
## Emisora BLE



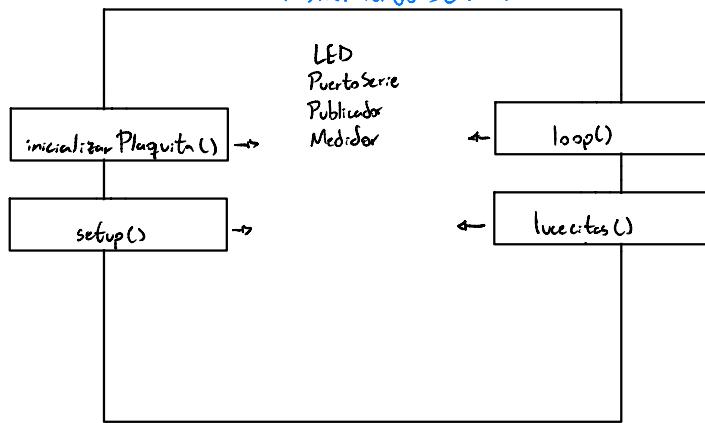
# LED



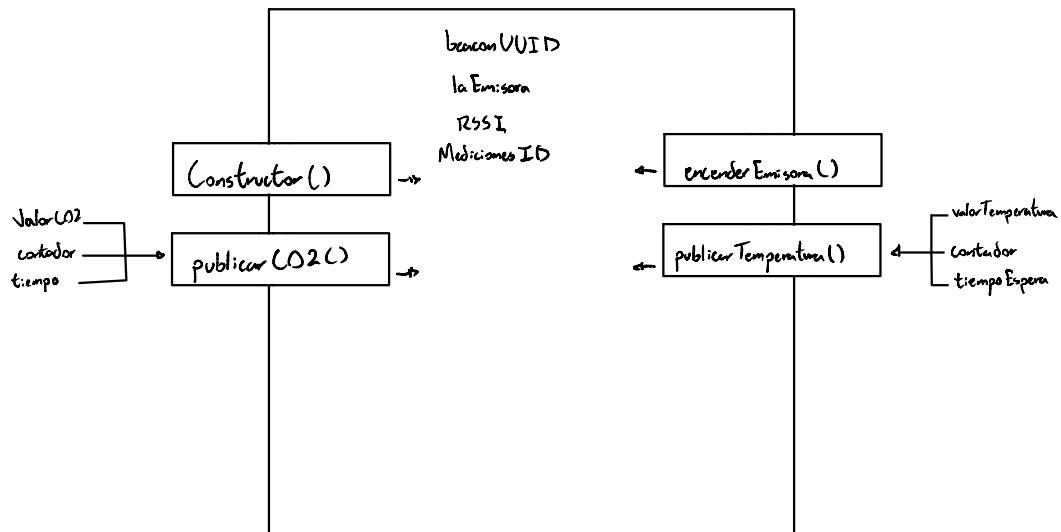
## Medidor



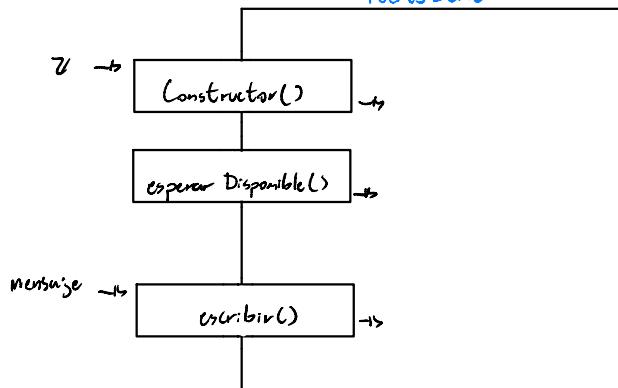
## Hola Mundo Beacon

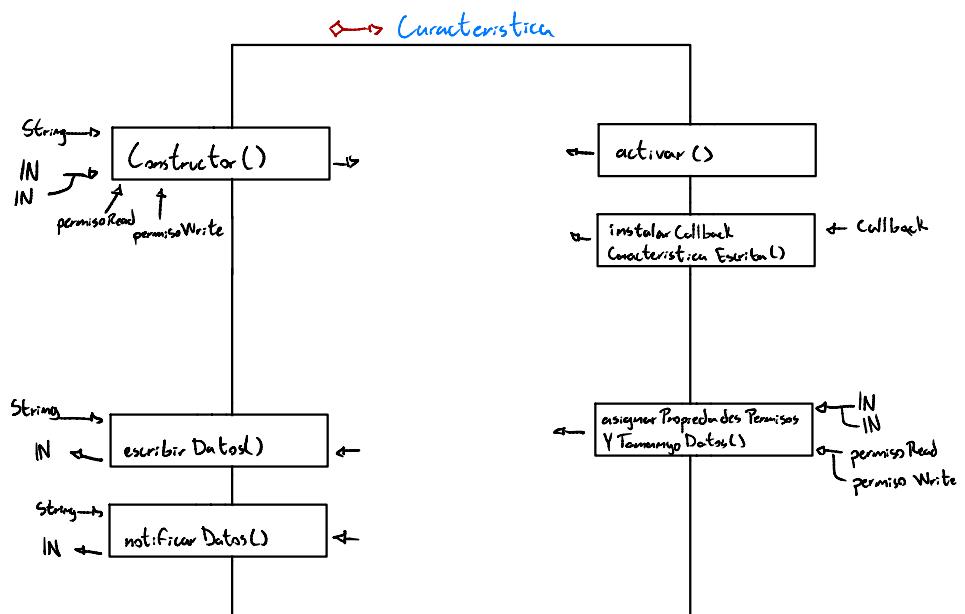
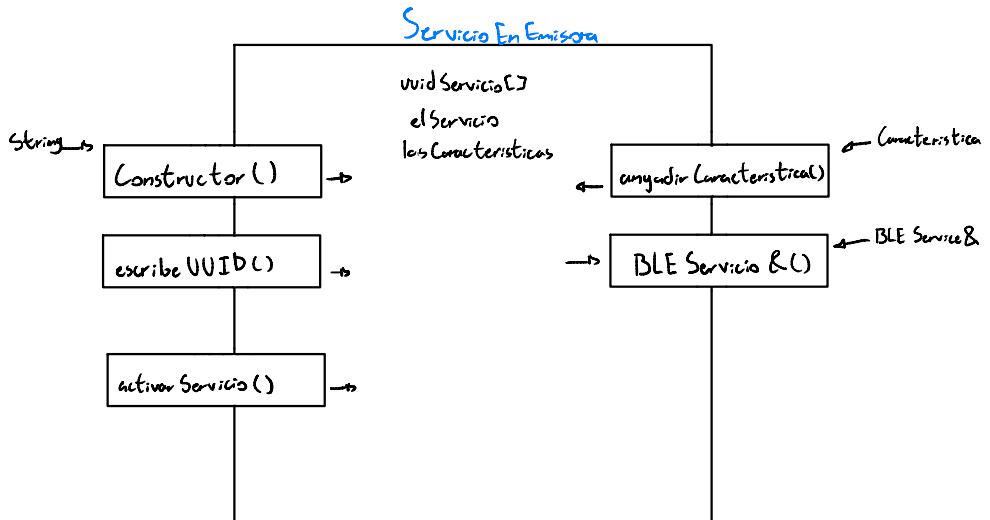


## Publicador

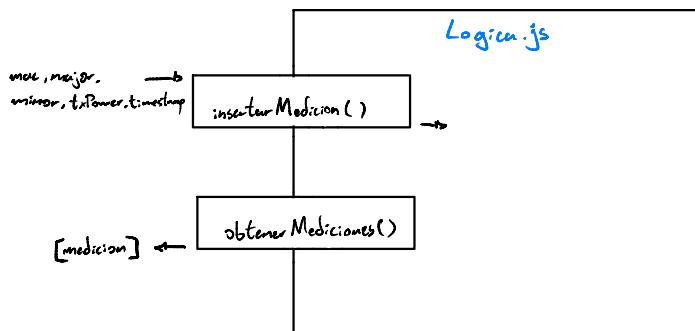


## Puerto Serie





# Lógica



## Base de Datos

### Tabla mediciones

Campo	Tipo	Descripción
id	INT AUTO_INCREMENT	Identificador único
mac	VARCHAR(50)	Dirección MAC del beacon
major	INT	Identificador mayor (tipo de sensor)
minor	INT	Valor del sensor
txPower	INT	Potencia de emisión
timestamp	DATE TIME	Marcador temporal

### Ejemplo de fila

id	mac	major	minor	tx Power	timestamp
1	AA:BB:CC:11:22:33	11	420	-60	2023-10-13

Diagrama lógico del negocio del back end

