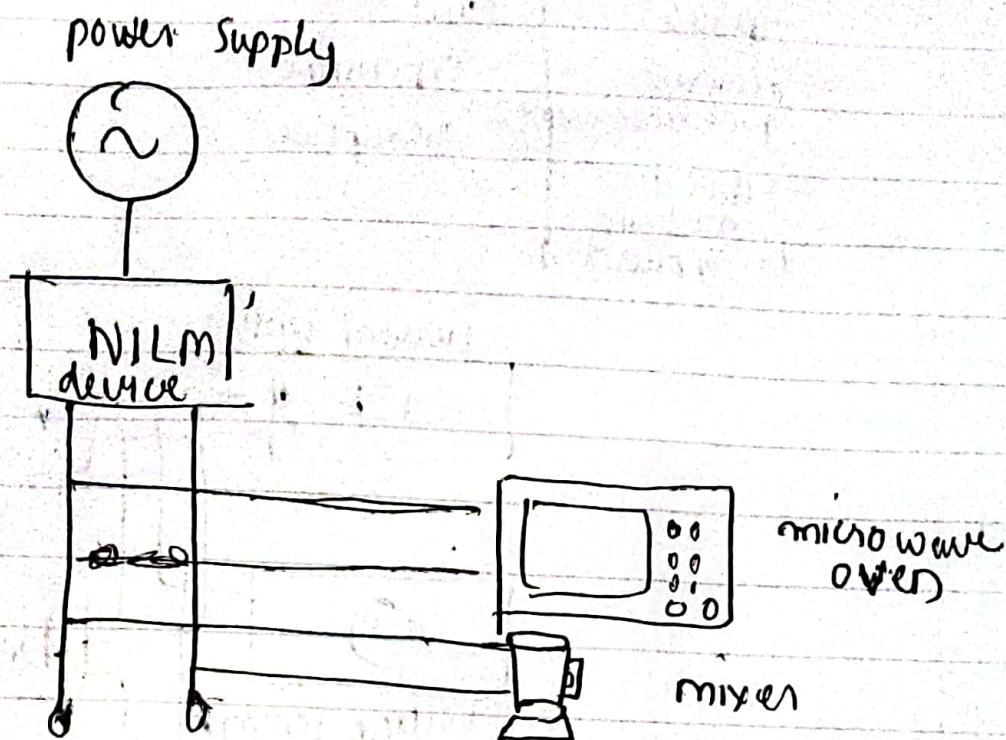


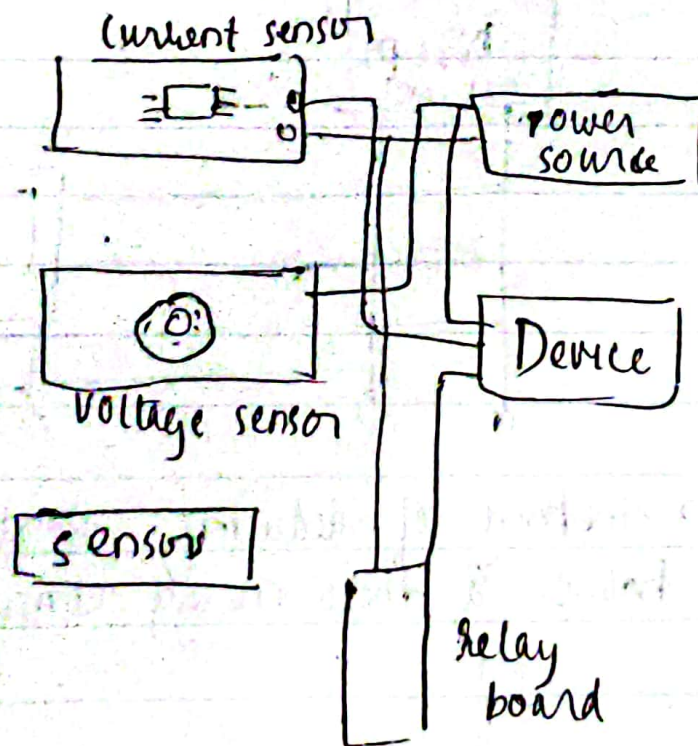
Overview of methods to disaggregate power
One method of disaggregating power:
NILM



NILM → method of deducing what application used in house & their energy consumption

smart plug sensors → another method of measuring power

- | pros | cons |
|---------------------------------------|-------------|
| - accurate
two measurement | - expensive |
| → direct
metering
to appliances | disruptive |

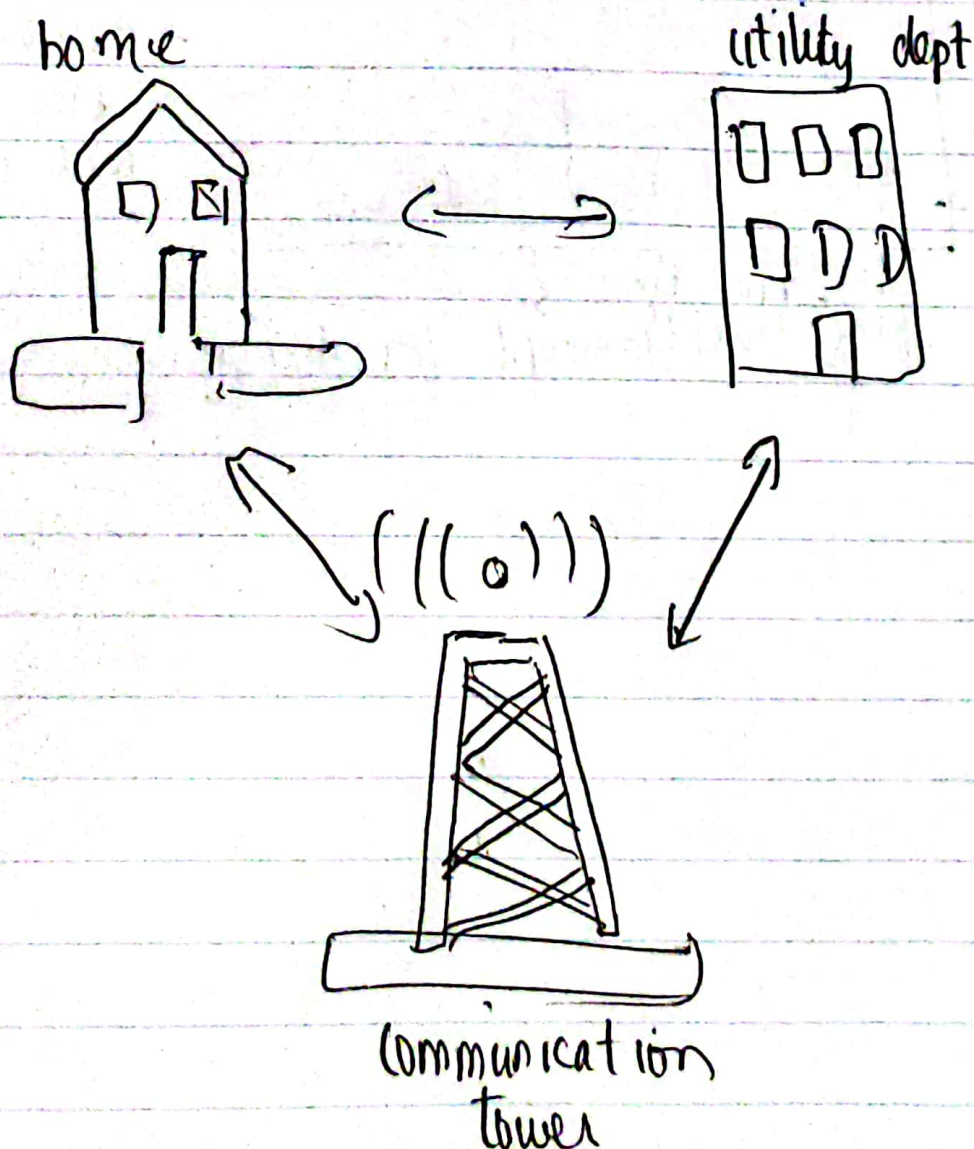


smart plug sensor hardware diagram
work in progress

advanced meter infrastructure → ~~an~~ another disaggregation method

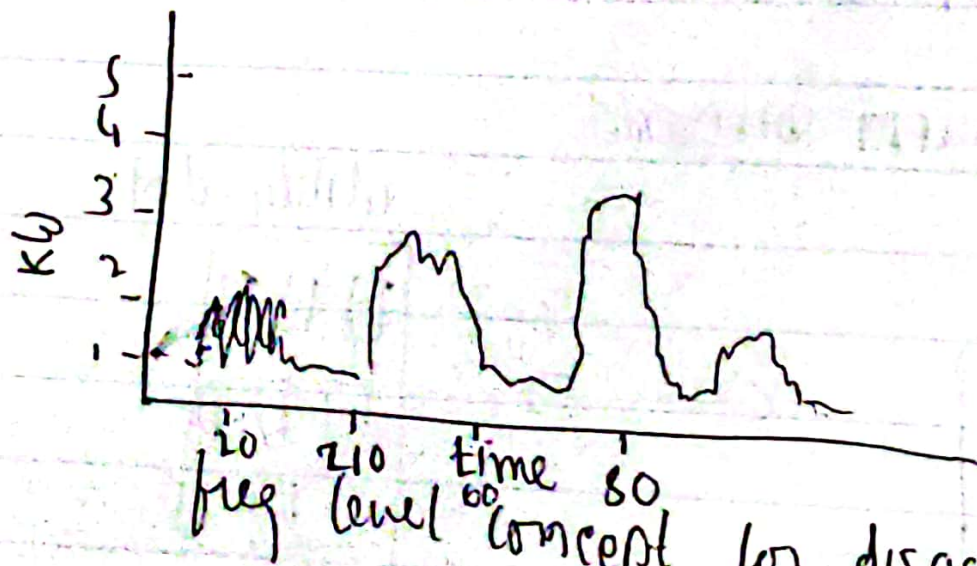
pros	cons
→ wide-spread adoption rate	→ varying results every time
→ provides data at 15 min interval	→ real-time disaggregated feedback not possible

AMI CONCEPT DIAGRAM



hardware sensors → another method for disaggregation

pros	cons
→ break down diff appliance info	→ lack of utility investment

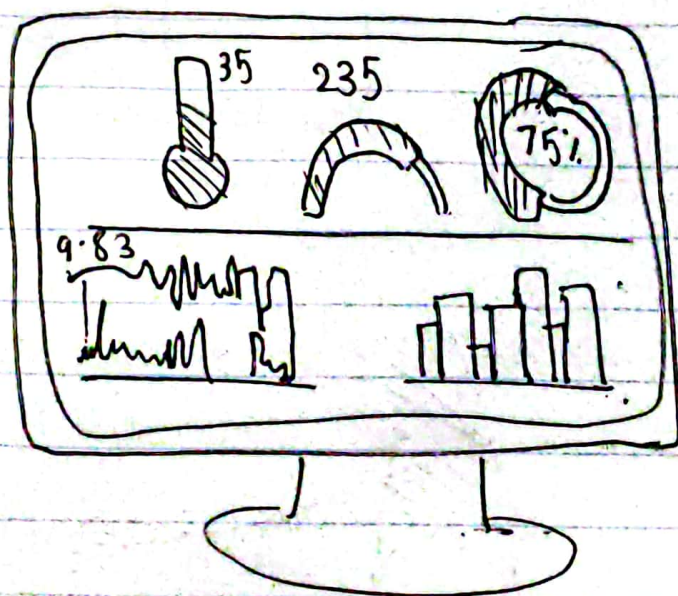


→ each variation in freq represents each appliance

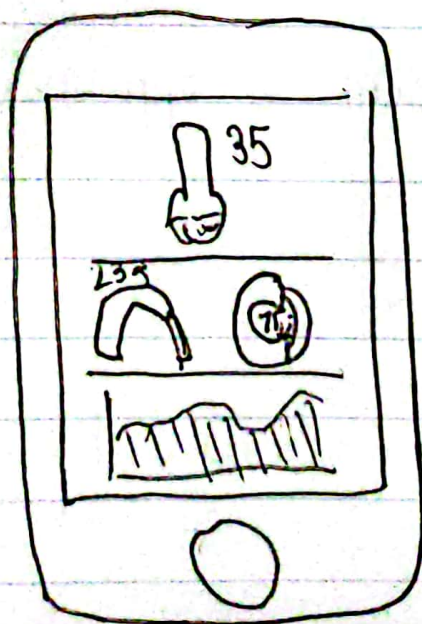
for disaggregation

concept

- a meter that measures ~~over~~ diff energy levels
- ~~a~~ such as temp, voltage, current & power
- a human machine interface & os phone app that users could download.

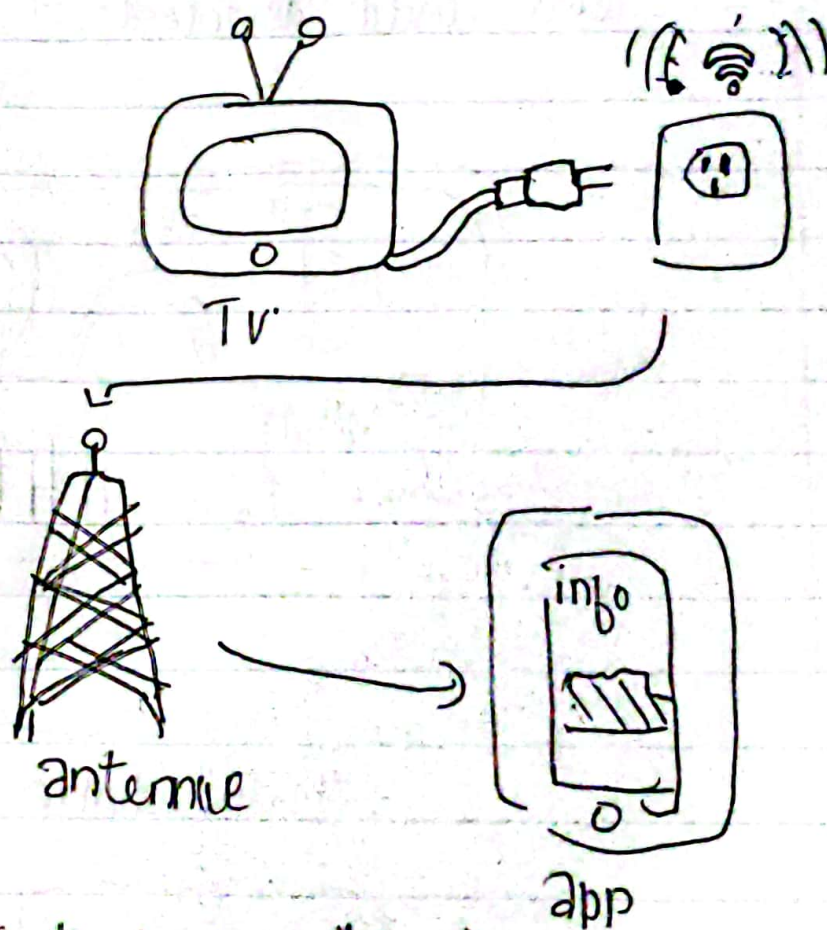


Remote dashboard



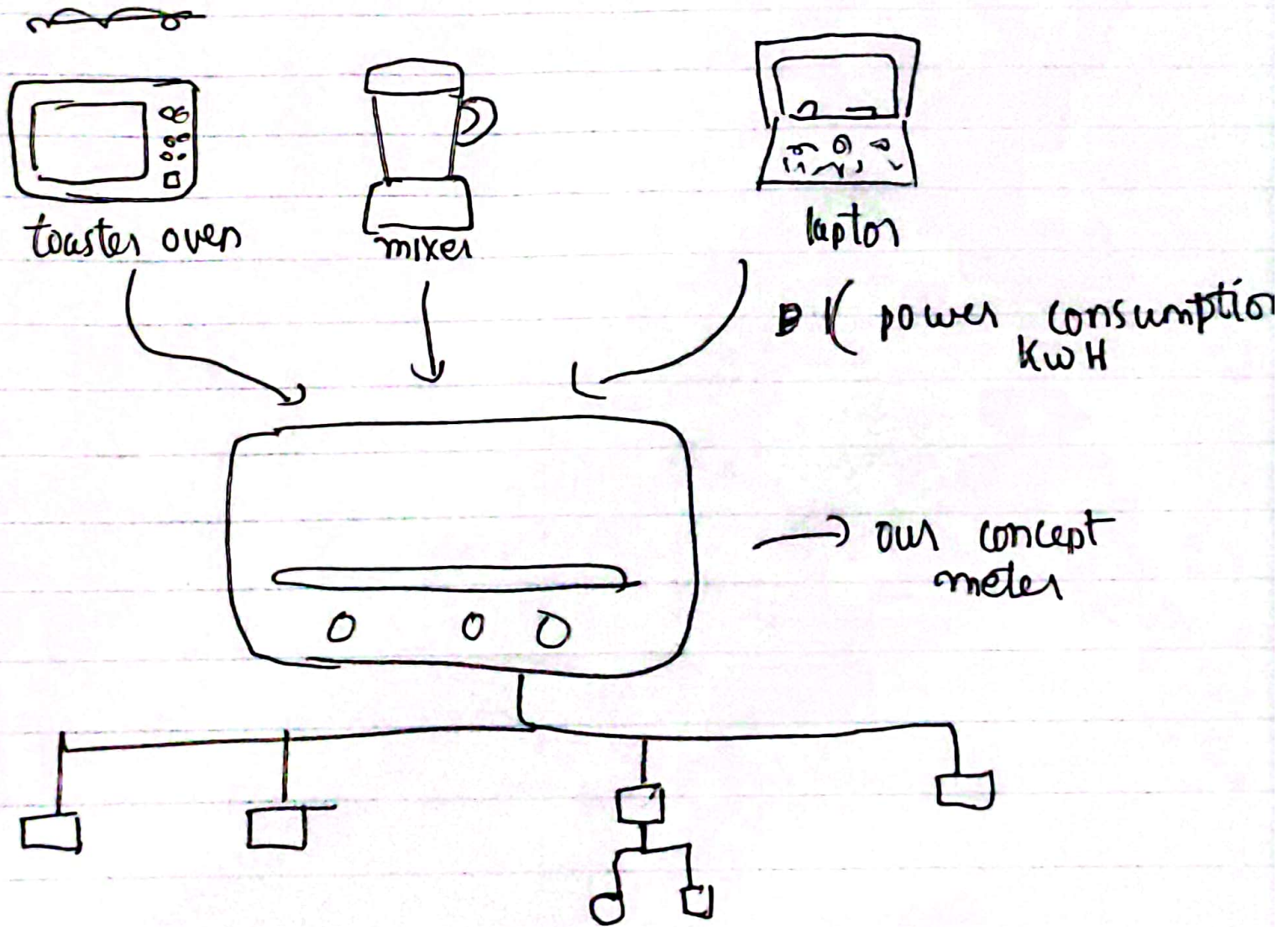
app

concept: devices that are connected to WIFI and are plugged into outlets
: PWR consumption could be measured using WIFI



information sent to app through wi-fi

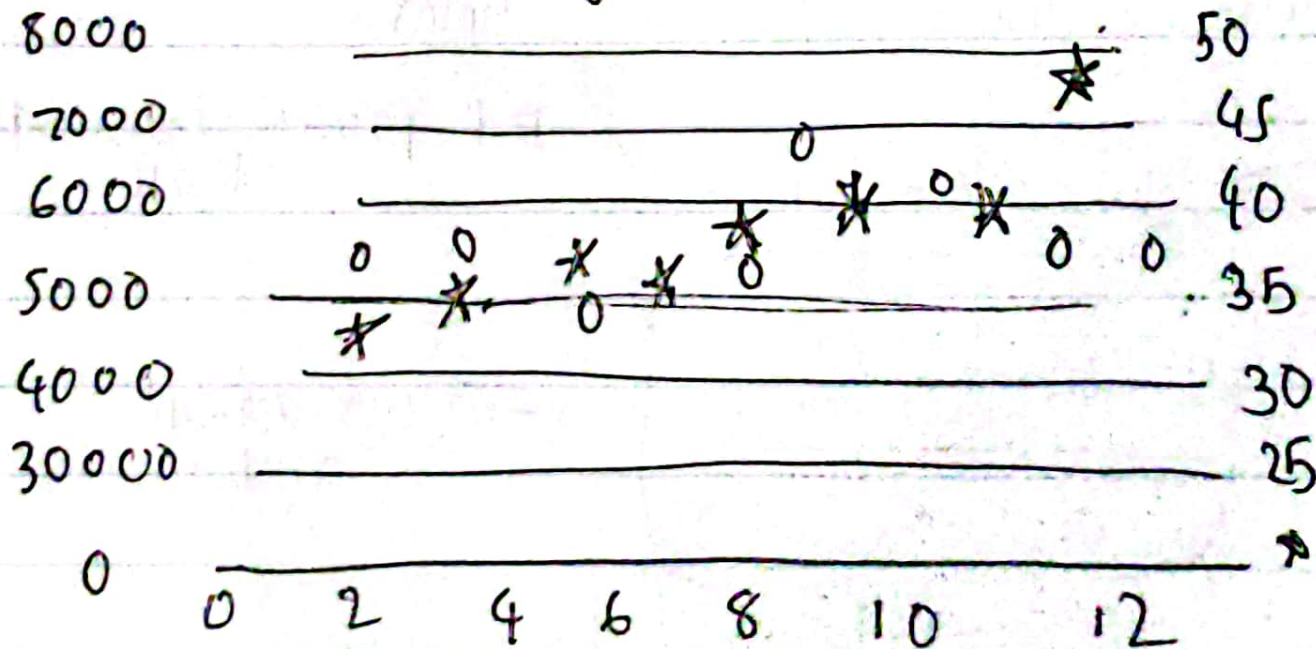
concept flowchart diagram



or scatter plot

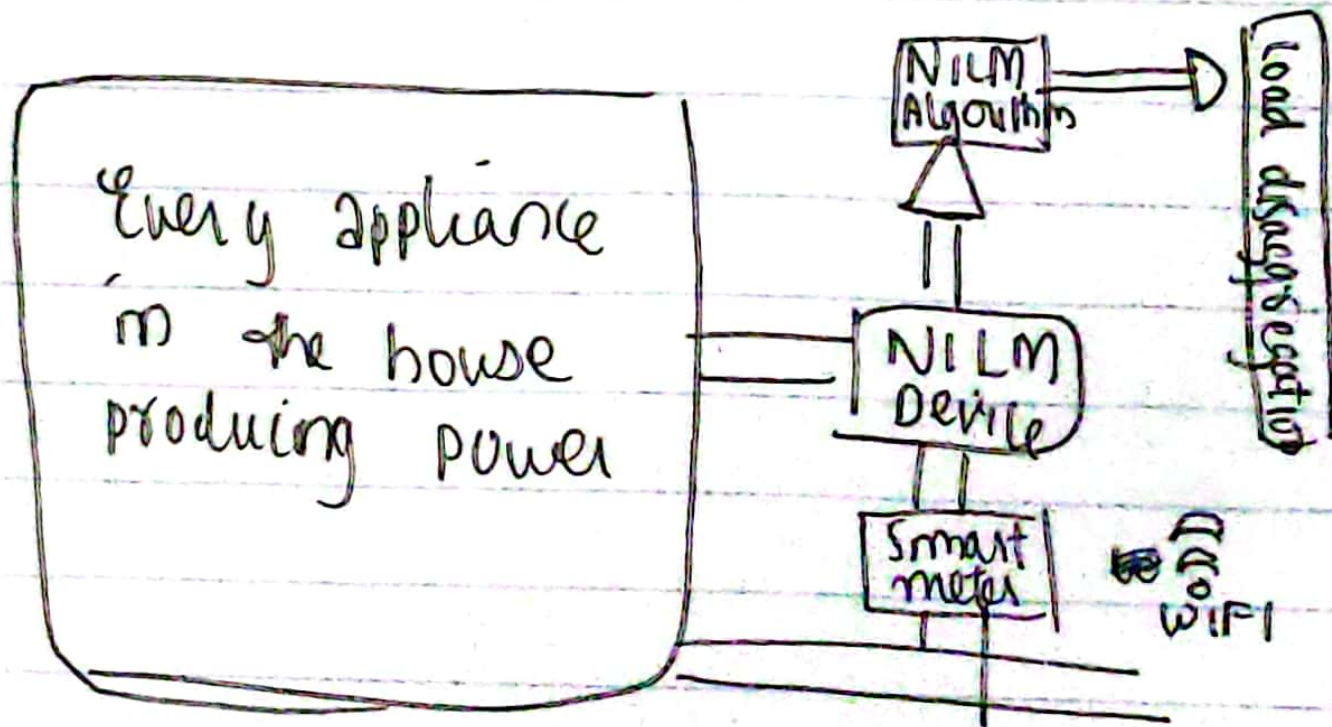
A graph correlating power consumed & how bill it adds up ^ would be helpful

o Electricity bill vs Power consumed



o Electricity bill * power consumed

Tying all of them together



Visualizing the data

