

PVProtect

SOFTWARE ENGINEERING PROJECT



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CONTENT



PROJECT DOMAIN

PROJECT SOLUTION

- ARCHITECTURE
- USE CASE DIAGRAM
- ACTIVITY & SEQUENCE DIAGRAM
- CLASS DIAGRAM

CONCLUSIONS



PROJECT DOMAIN

1-BRIEF OVERVIEW

**The use of
solar panels
increased**



Sustainable
source of energy

**Loss of
efficiency**



**Switch
ON / OFF**

PVProtect

2-HOW DOES IT WORK?

Real time factors:

1. Battery
2. Consumption
3. Production
4. Fire emergency

Key point: Minimize the usage of the solar panel while maximizing self consumption



3-DECISION MAKING

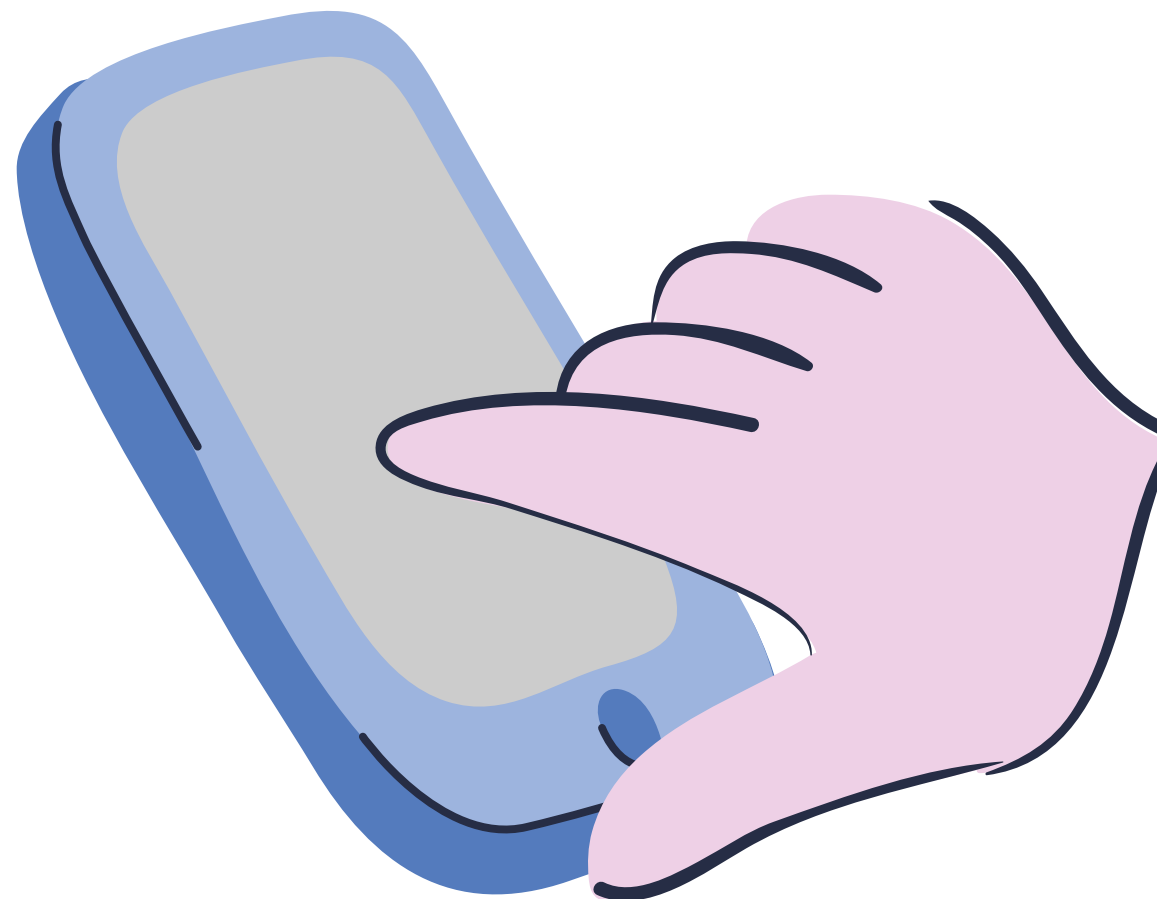
OFF	ON
LOW PRODUCTIVITY	BATTERY NOT FULLY CHARGED
HIGH PRODUCTION/CONSUMPTION RATIO (BATTERY 100%)	PRODUCTION/CONSUMPTION RATIO ≤ 1
FIRE EMERGENCY	NO FIRE EMERGENCY



4- USERS FOCUSED

Homeowners

Companies &
Factories



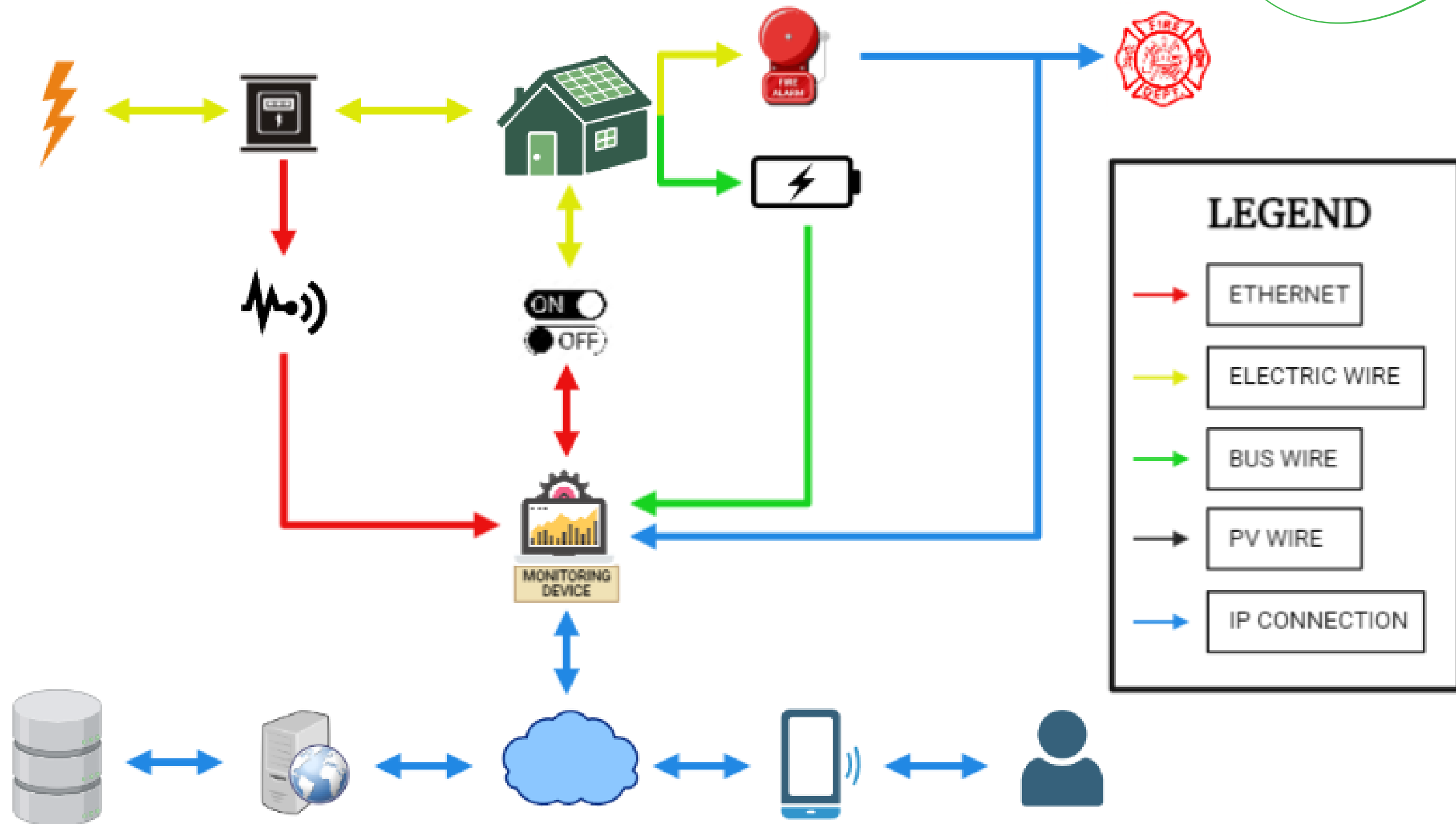
5- OUR SERVICES



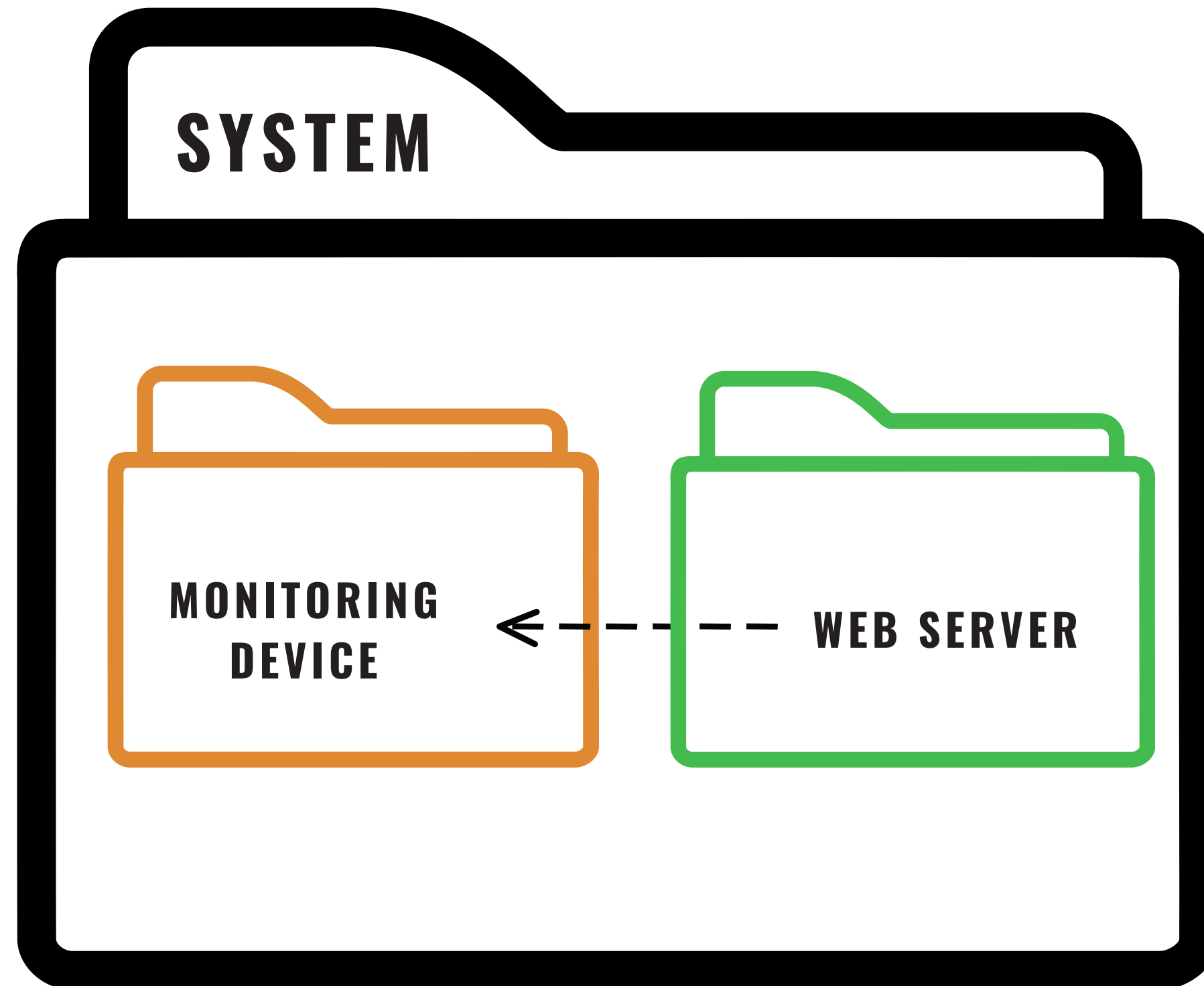


PROJECT SOLUTION

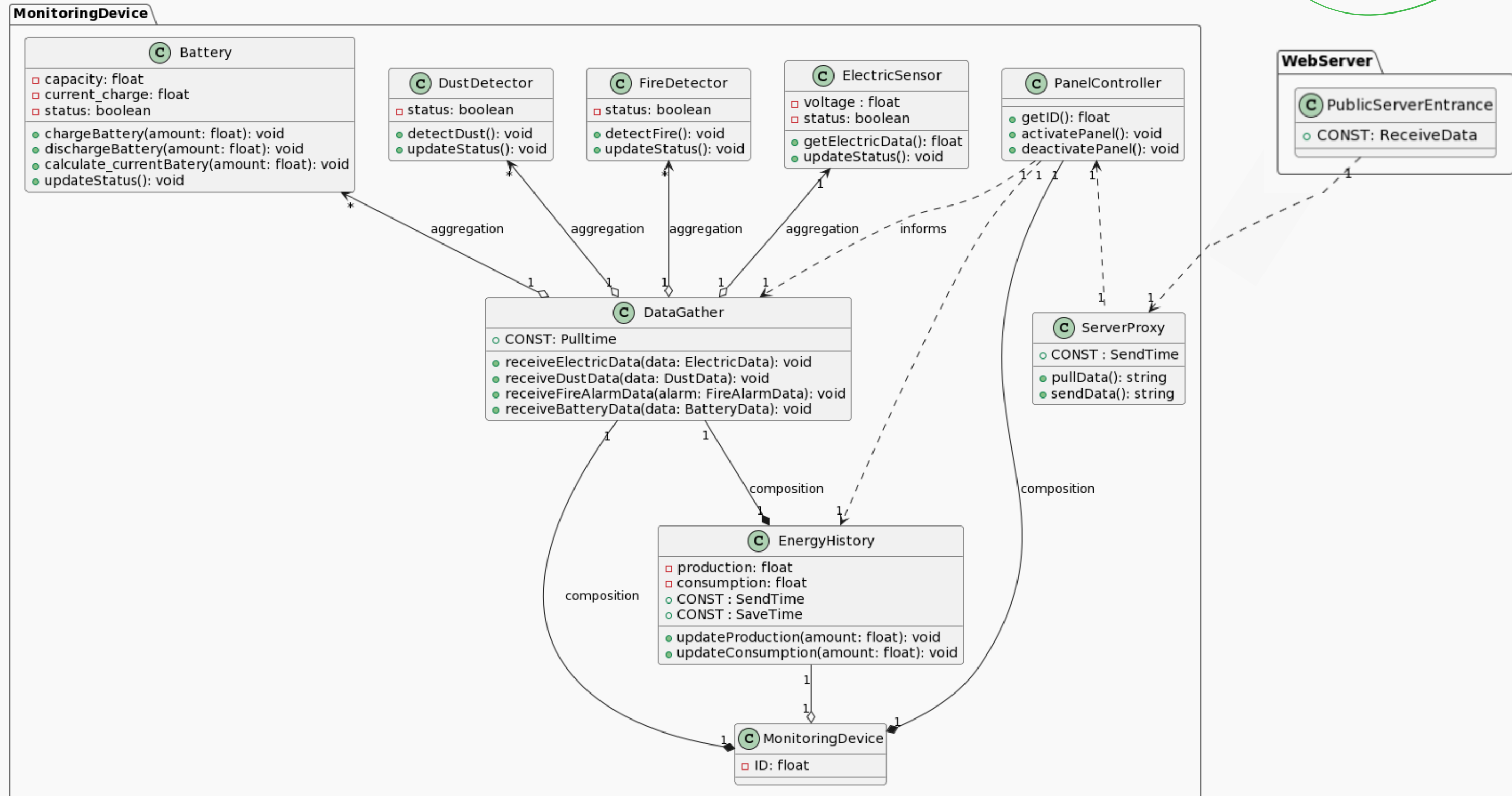
6- ARCHITECTURE



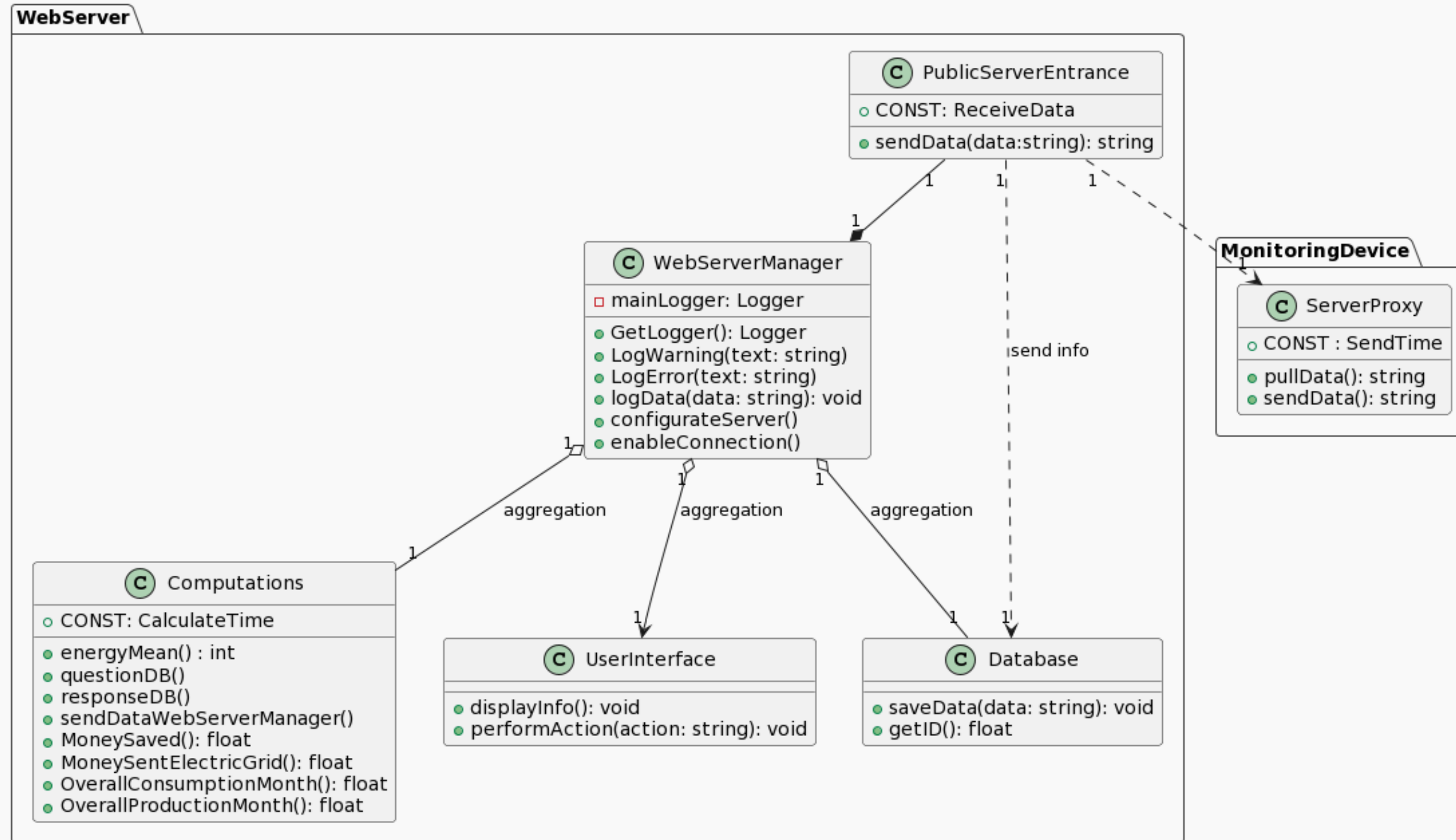
7- CLASS DIAGRAM



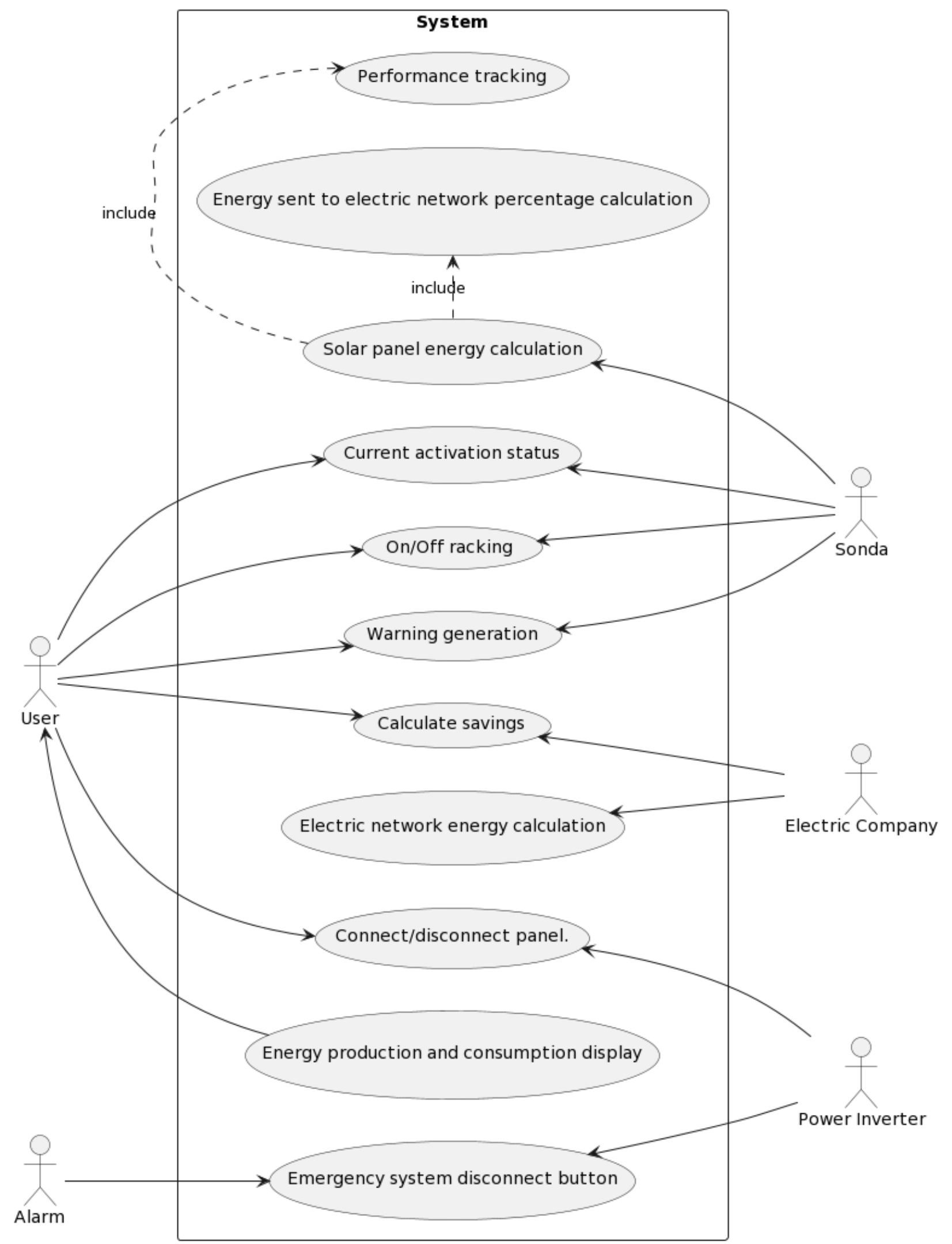
7- CLASS DIAGRAM



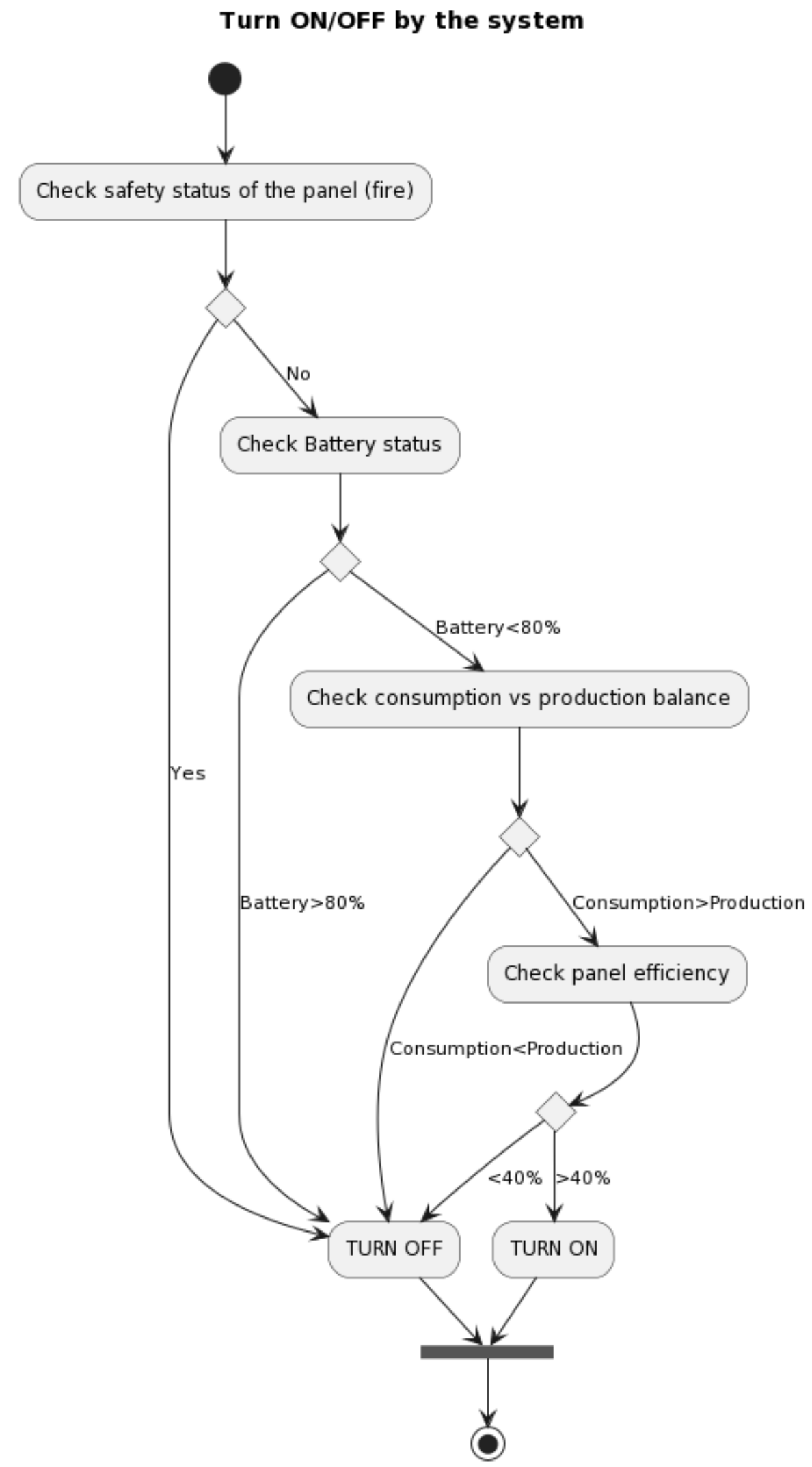
7- CLASS DIAGRAM



8-USE CASE DIAGRAM

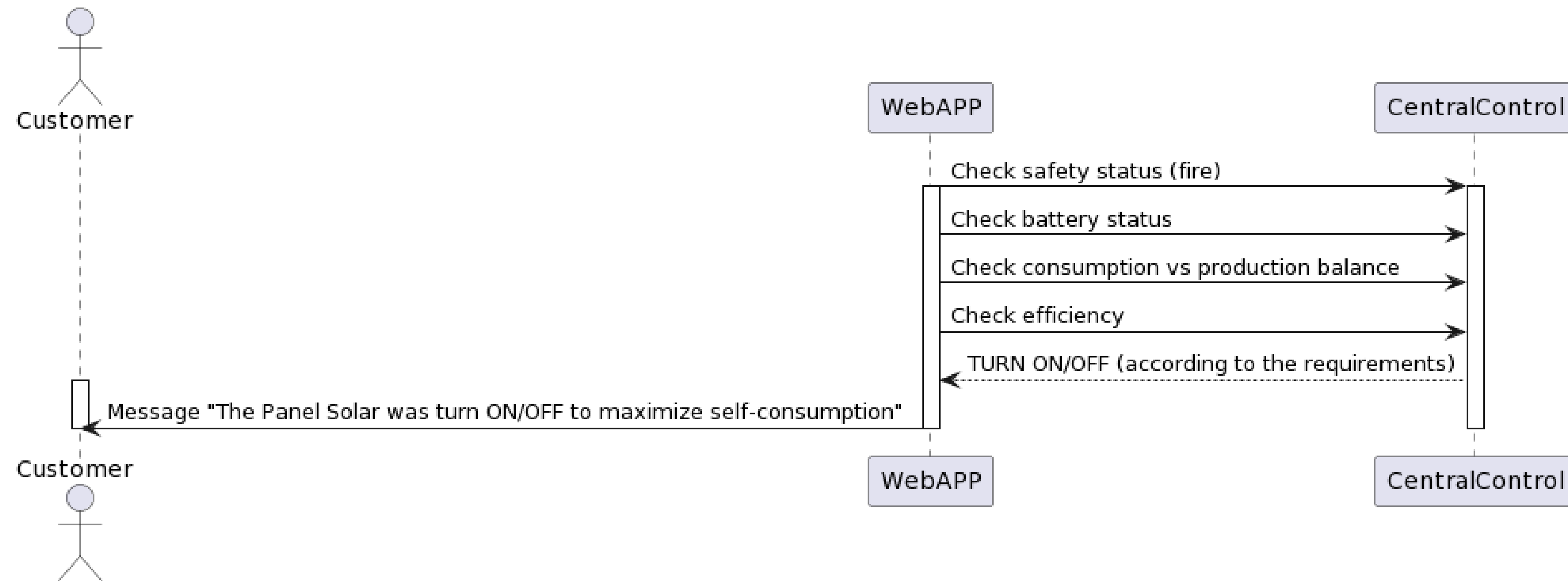


9 - ACTIVITY DIAGRAM



10-SEQUENCE DIAGRAM

Turn ON/OFF by the system





CONCLUSION

**THANK'S FOR
WATCHING**

