

PVProtect

SOFTWARE ENGINEERING PROJECT



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CONTENT



PROJECT DOMAIN

PROJECT SOLUTION

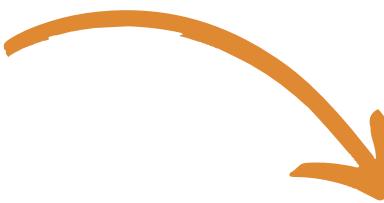
- ARCHITECTURE
- USE CASE DIAGRAM
- ACTIVITY & SEQUENCE DIAGRAM
- CLASS DIAGRAM

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

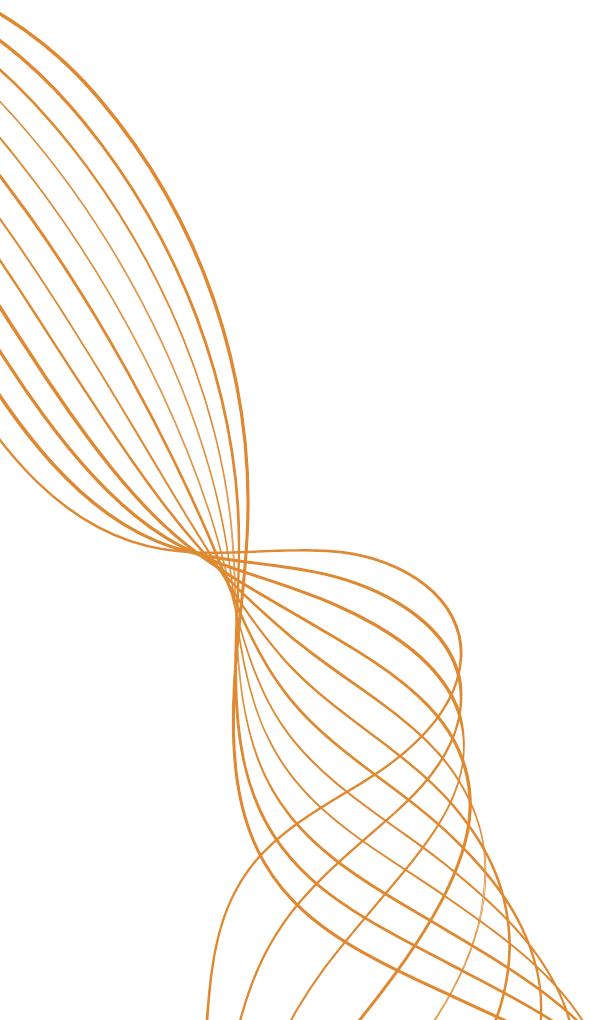
OFF	ON
LOW PRODUCTIVITY	BATTERY NOT FULLY CHARGED
HIGH PRODUCTION/CONSUMPTION RATIO (BATTERY 100%)	PRODUCTION/CONSUMPTION RATIO ≤ 1
FIRE EMERGENCY	NO FIRE EMERGENCY



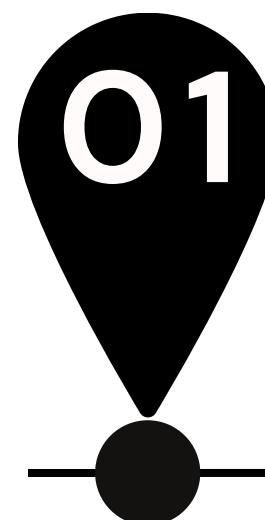
4- USERS FOCUSED

Homeowners

Companies &
Factories



5- OUR SERVICES



CONNECT &
DISCONNECT
THE PANEL



MEASUREMENT
OF THE ENERGY
PROVIDED BY
THE PANEL



WARNINGS



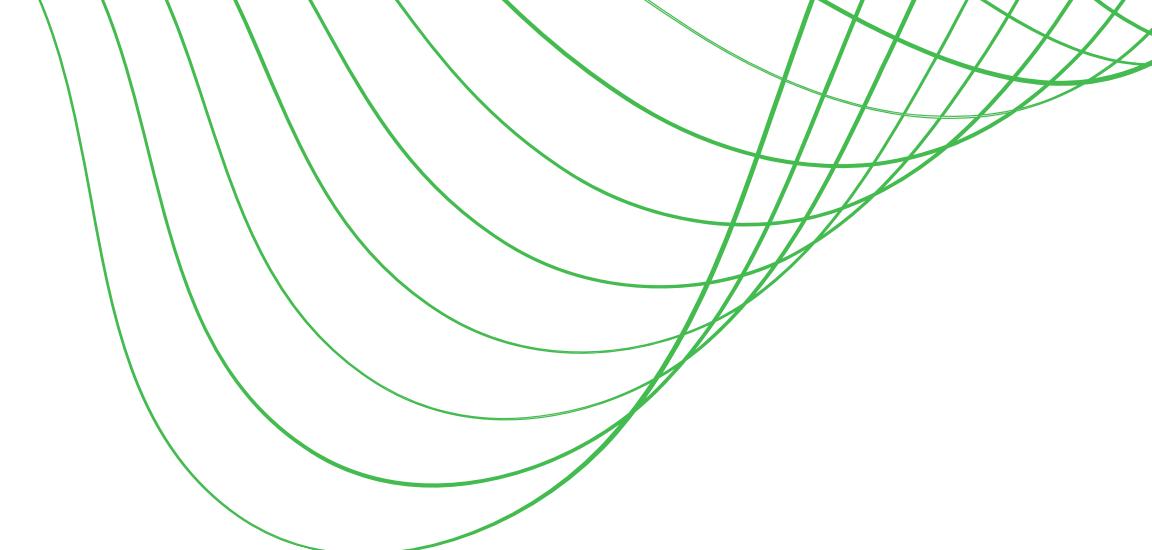
MONEY SAVED



PANEL'S
ON/OFF

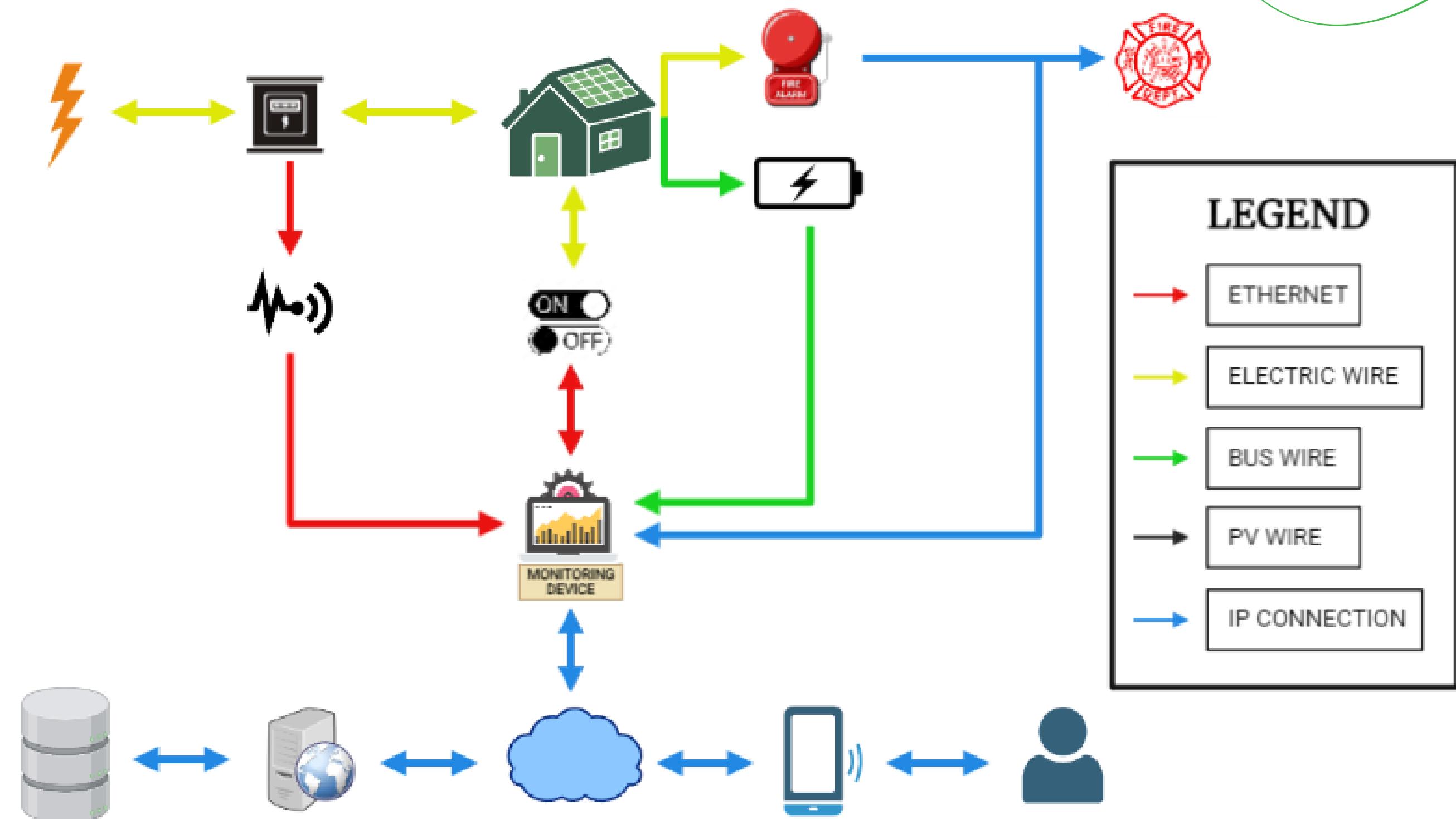


PERFORMANCE
OF THE PANEL

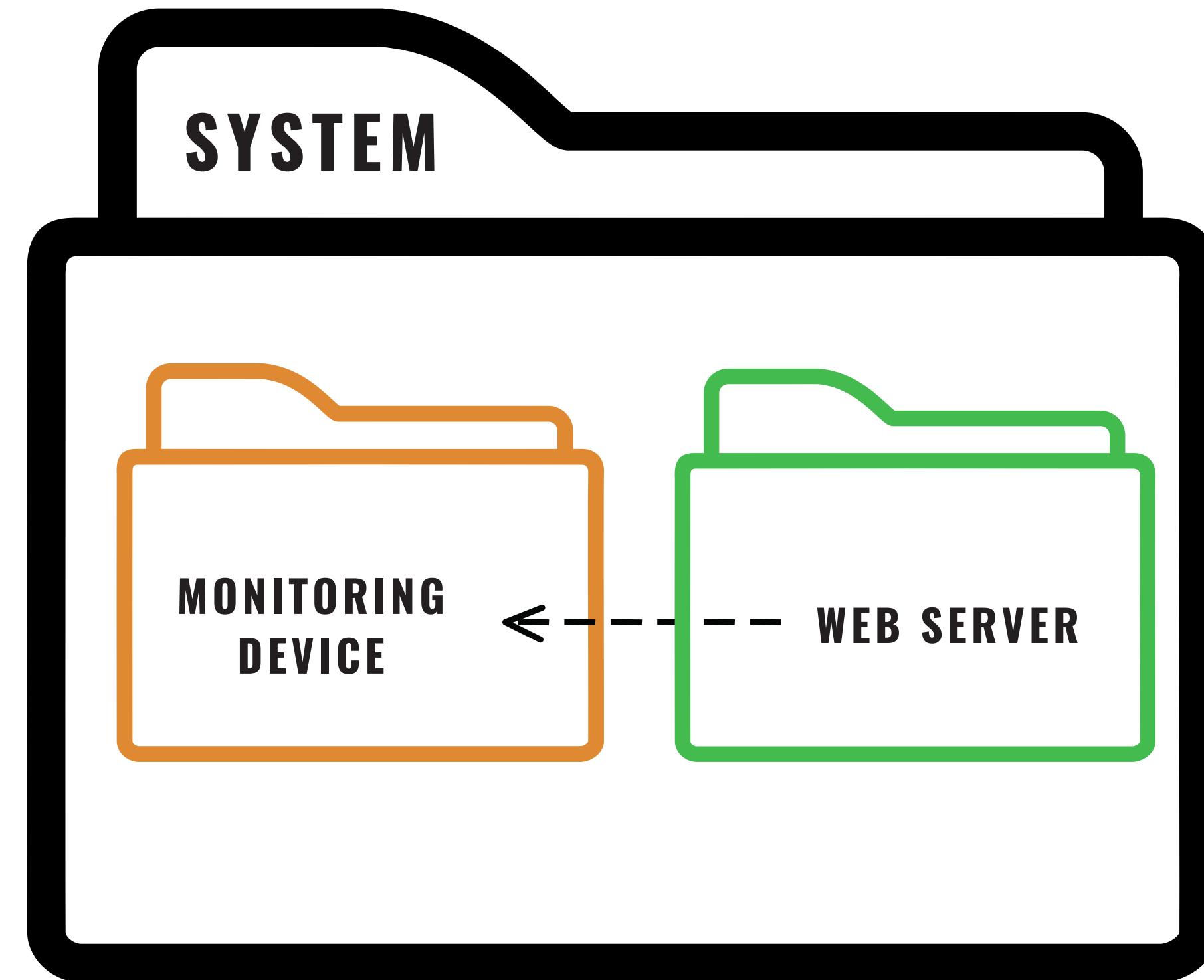


PROJECT SOLUTION

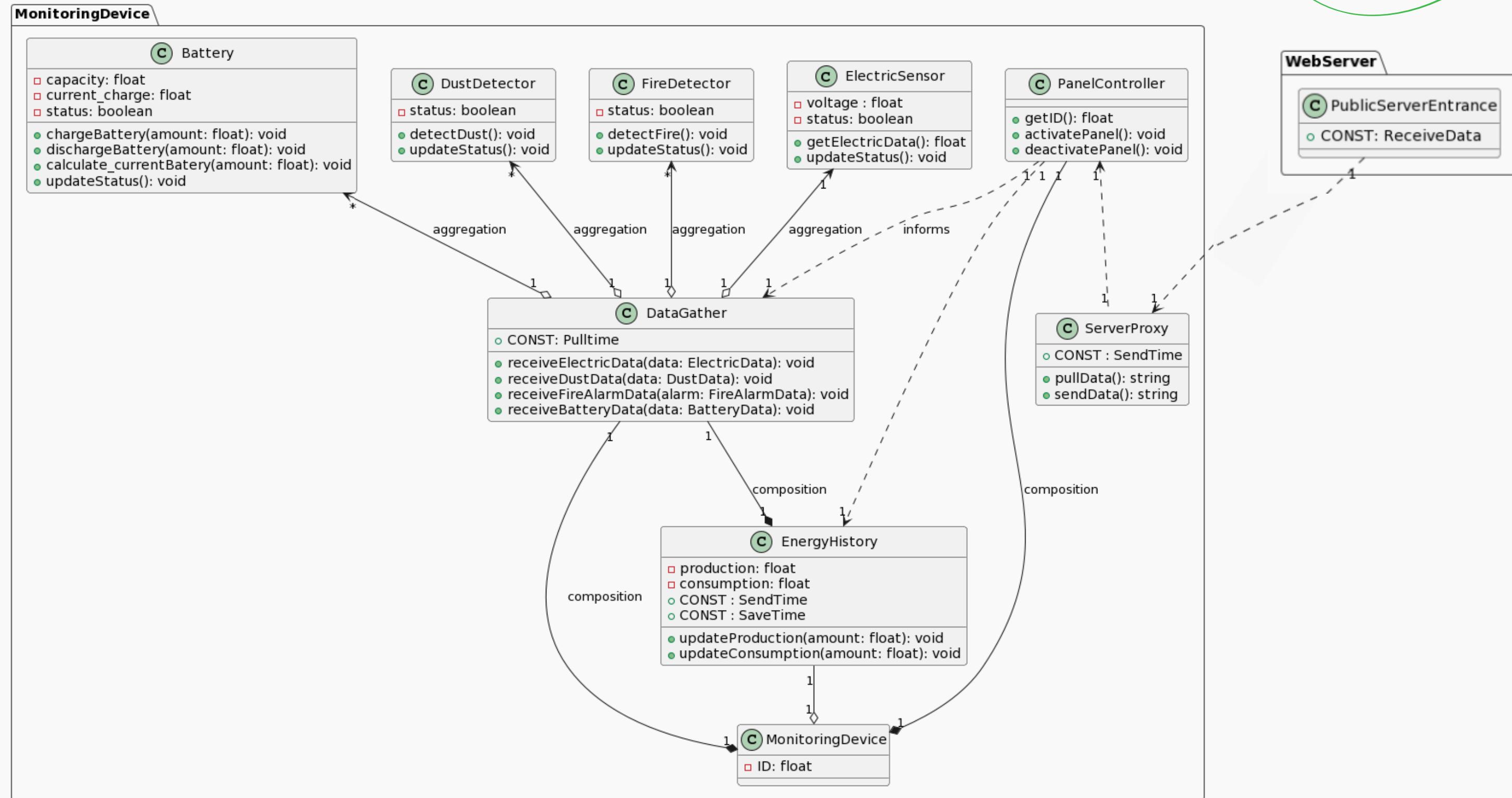
6- ARCHITECTURE



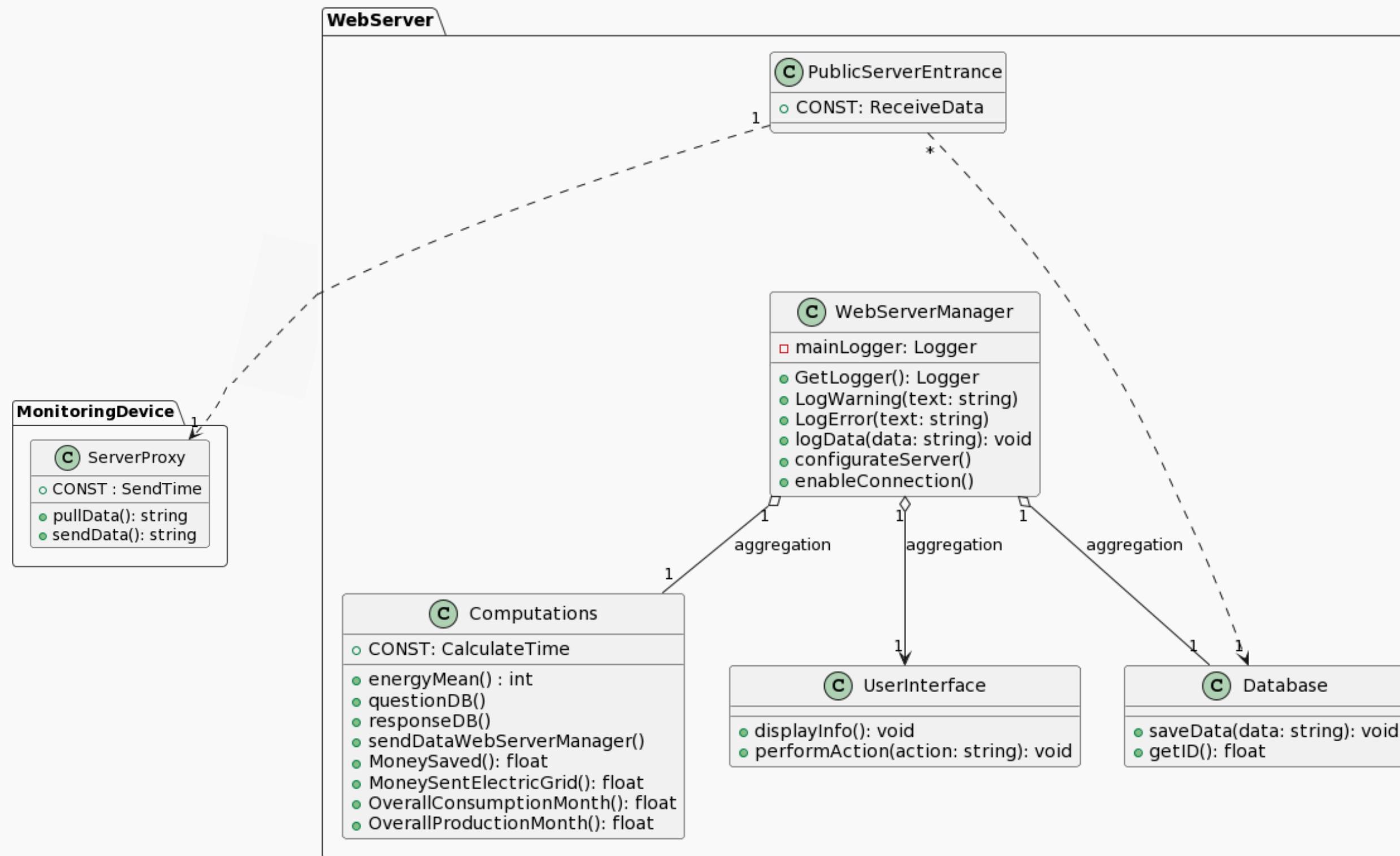
7- CLASS DIAGRAM



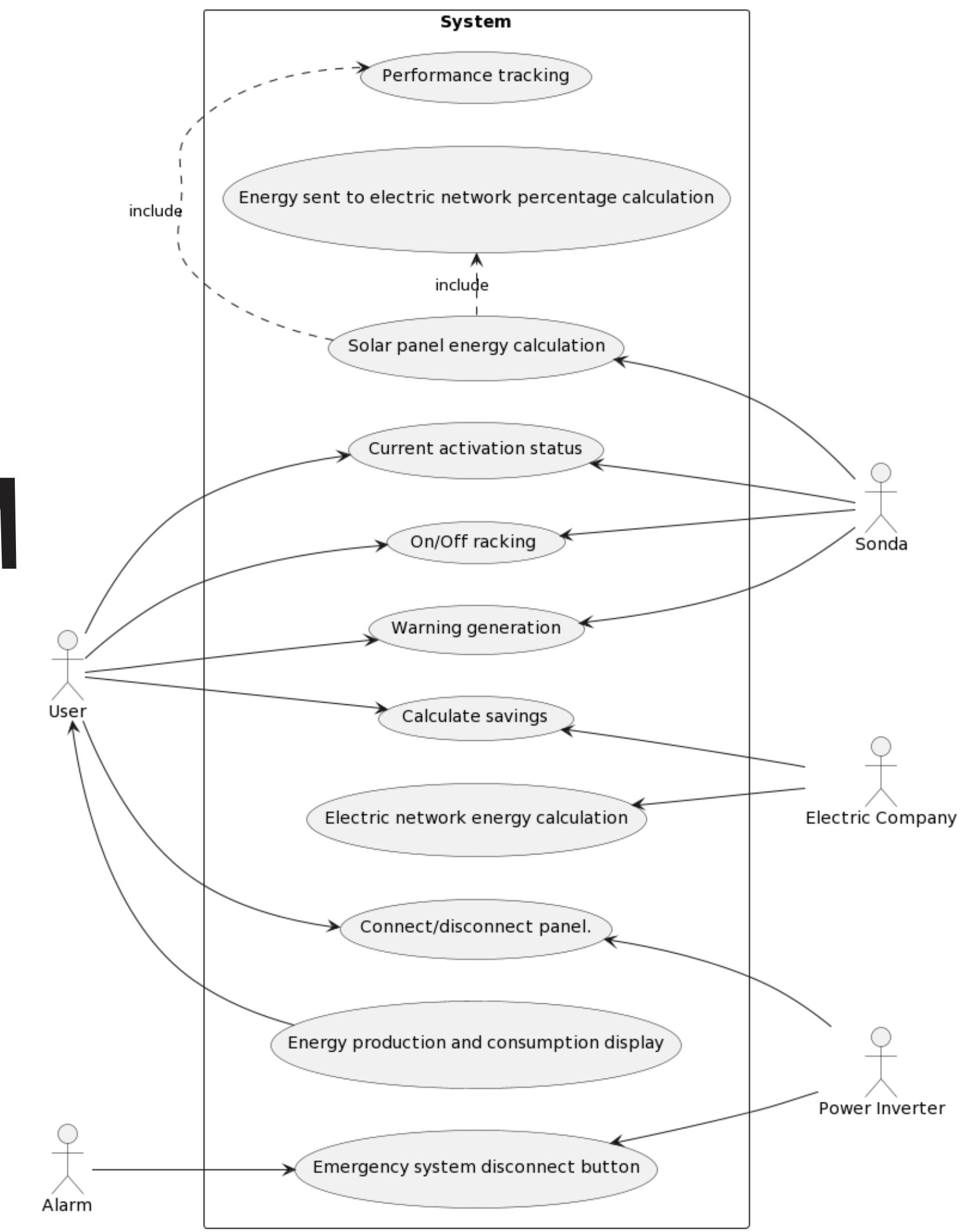
7- CLASS DIAGRAM



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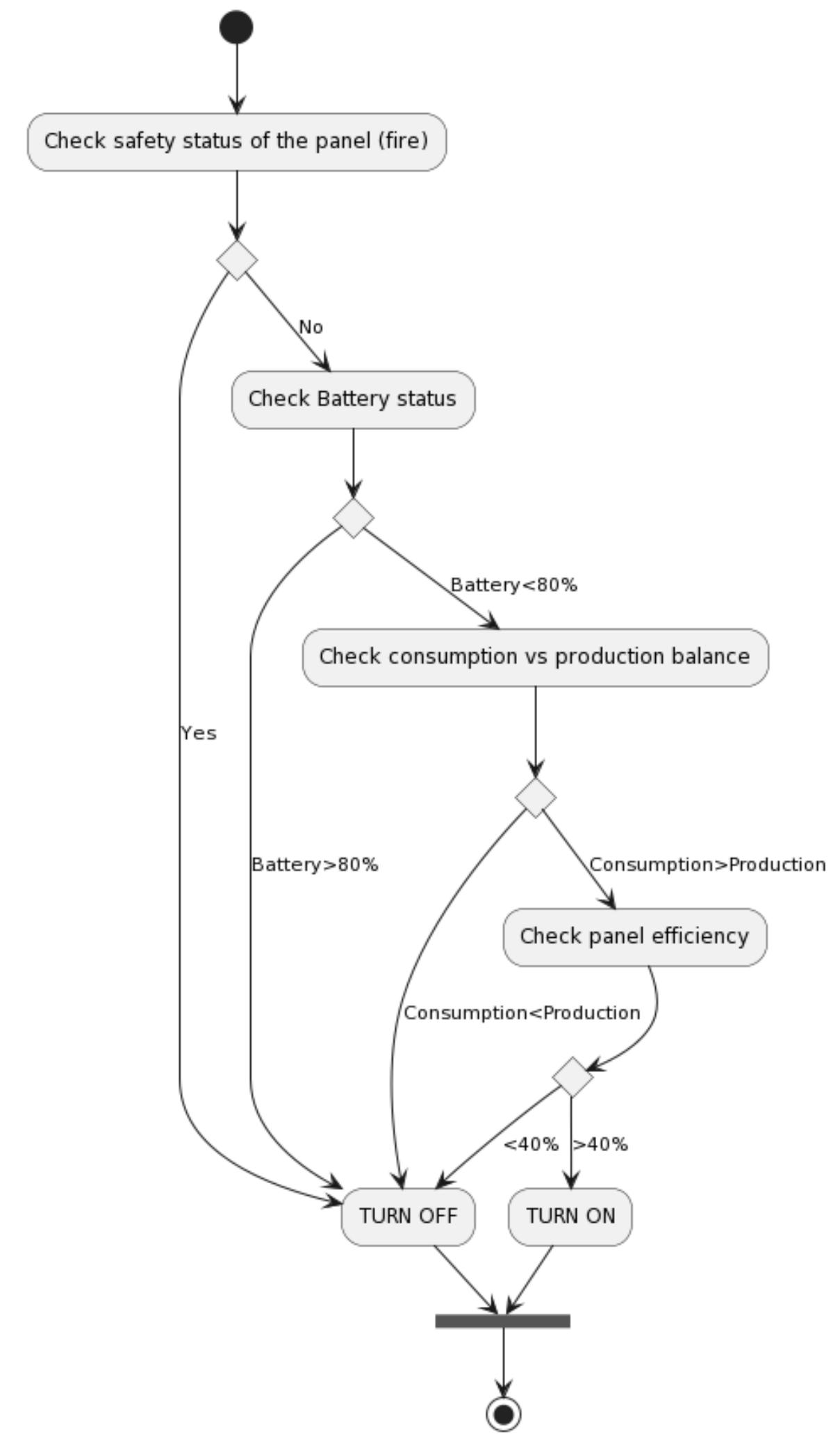


8 - USE CASE DIAGRAM

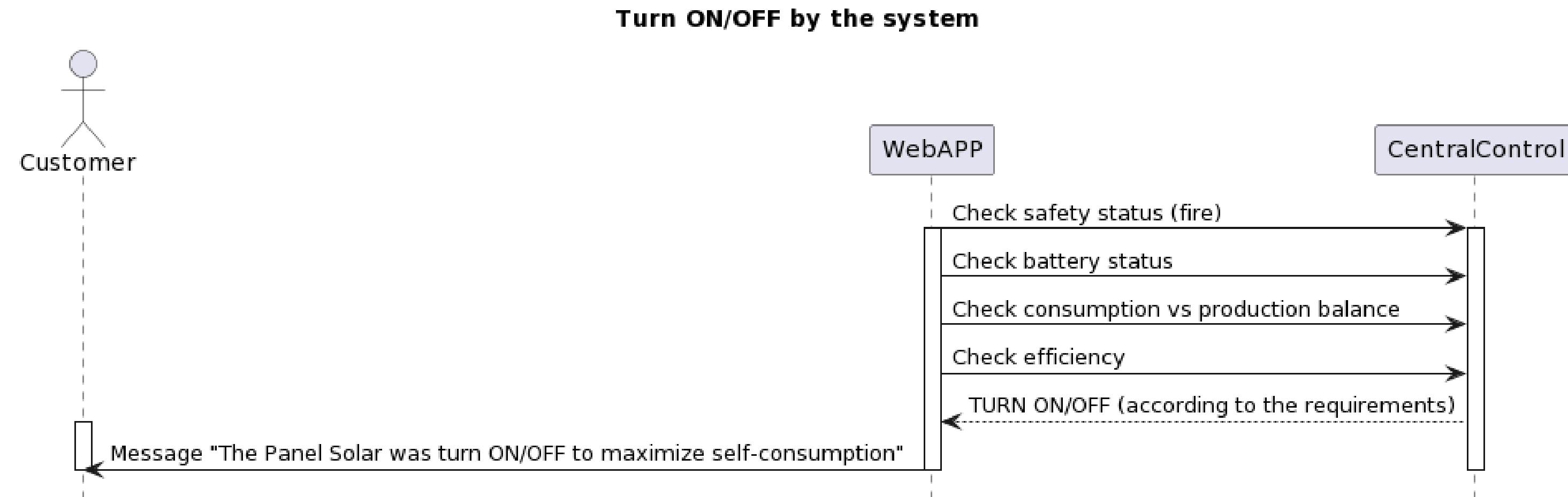


9 - ACTIVITY DIAGRAM

Turn ON/OFF by the system



10-SEQUENCE DIAGRAM





CONCLUSION

**THANK'S FOR
WATCHING**

