PVProtect

SOFTWARE ENGINEERING PROJECT

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CONTENT

1-INTRODUCTION

The use of solar panels increased

Sustainable source of energy

Loss of efficiency

Switch ON / OFF

PVProtect

1-INTRODUCTION

4 Real time factors:

- Battery
- Consumption
- Production
- Fire emergency

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

1-INTRODUCTION

When does it activate or deactivate the solar panel?

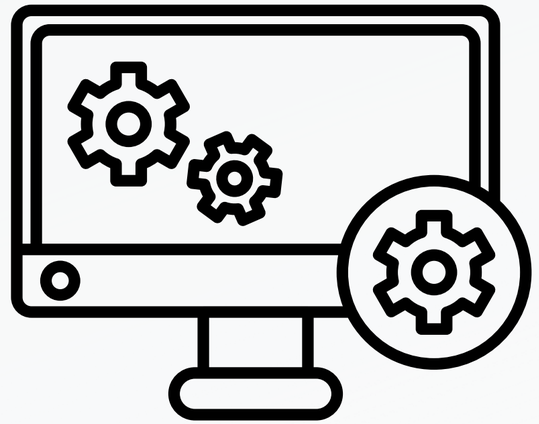
OFF	ON
LOW PRODUCTIVITY	BATTERY NOT FULLY CHARGED
HIGH PRODUCTION/CONSUMPTION RATIO (BATTERY 100%)	PRODUCTION/CONSUMPTION RATIO ⩽ 1
FIRE EMERGENCY	NO FIRE EMERGENCY

2-OUR PROJECT

WHAT IS THE PROBLEM?

Loss of efficiency of the photovoltaic cells.

OUR PROPOSAL



Software that controls whether to turn on/off to increase the lifespan of the panels.

3- USERS FOCUSED

Citizens

Companies

Factories

APPLICATION

4- OUR SERVICES

01 CONNECT & DISCONNECT THE PANEL

02 MEASUREMENT OF THE ENERGY PROVIDED BY THE PANEL

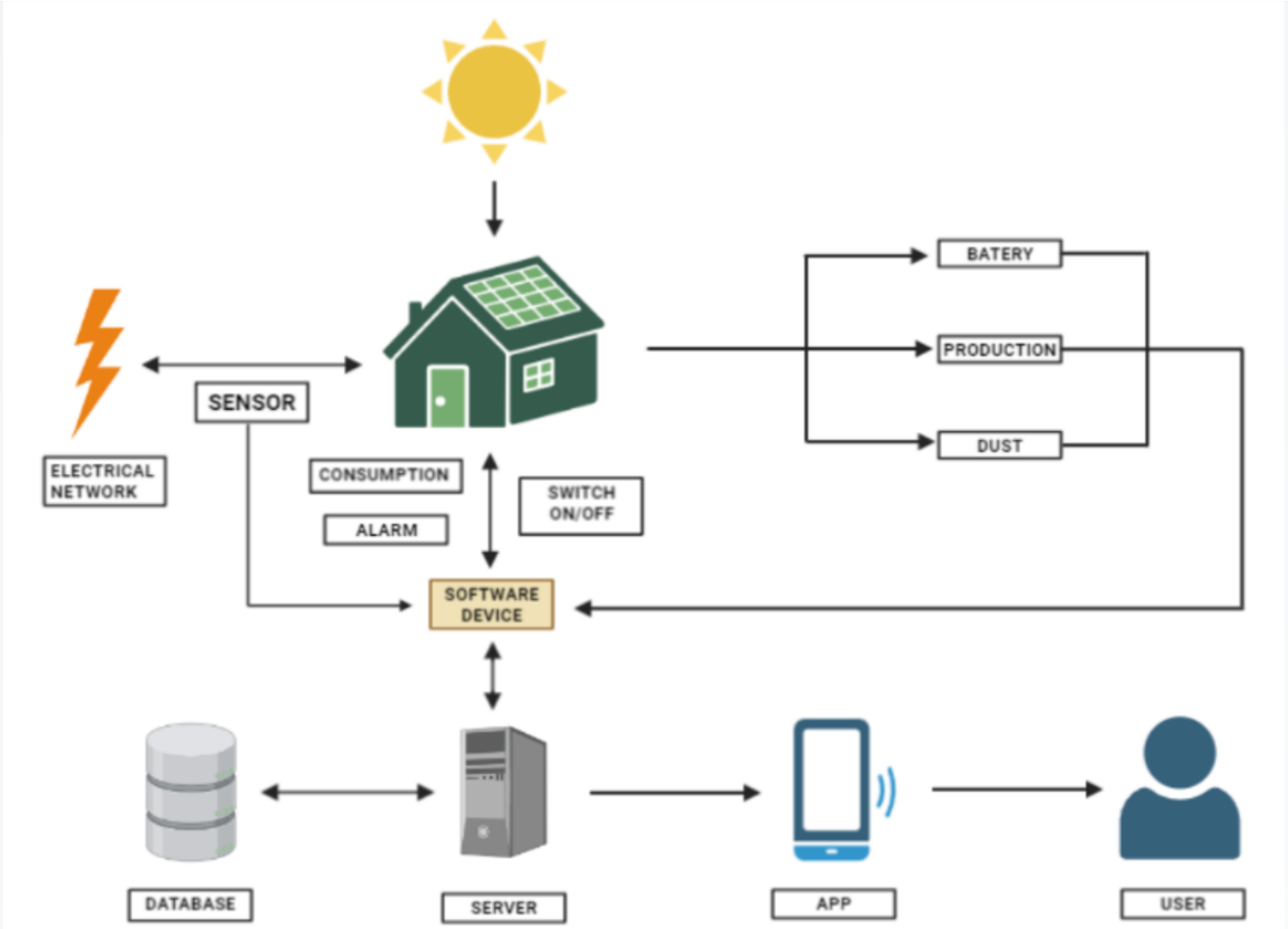
03 WARNING WHEN IT DETECTS SOME RISKS

04 ENERGY CONSUMPTION

05 PANEL'S ON/OFF

06 PERFORMANCE OF THE PANEL

5. ARCHITECTURE



PVProtect

THANK'S FOR WATCHING