



TEAM

HACKSQUAD



MEET THE TEAM

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TO TACKLE...

Unpredictability of energy consumption in the grid.

Unmeasured use of energy and wastage of natural resources, people are misusing power inputted into each house, leading to more transferring of power and more use of renewable as well as non-renewable resources. The uncontrolled use of non-renewable resources is leading to climate changes and threats of natural disasters across the globe.



ADVANTAGES

To control the overconsumption of power and resources, we have designed a smart grid infrastructure to tackle the issue. The device is capable of calculating the input power rate to each house thereby setting the total usage of the inputted power to whole i.e. the total inputted power will be equal to total used power. There will be no overloading or underloading.

SOLUTION

SMART CLOUD COMPUTING SOFTWARE

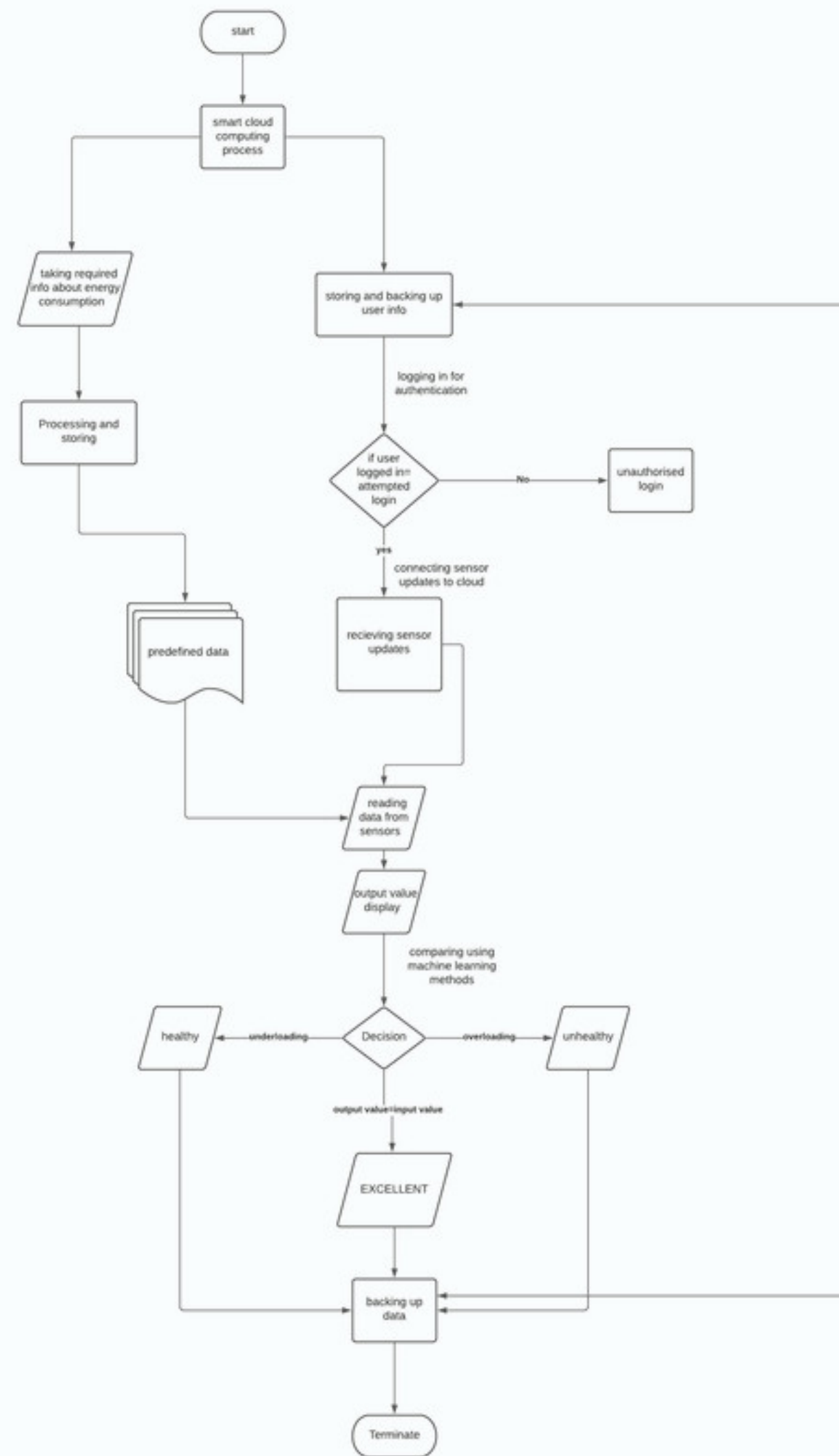
TO DESIGN A DEVICE THAT STORES AND
AUTHENTICATES DATA OF USERS AND KEEPS
ACCOUNT OF THE CONSUMPTION DETAILS
OBTAINED FROM THE SENSORS IN EACH
HOUSEHOLD.

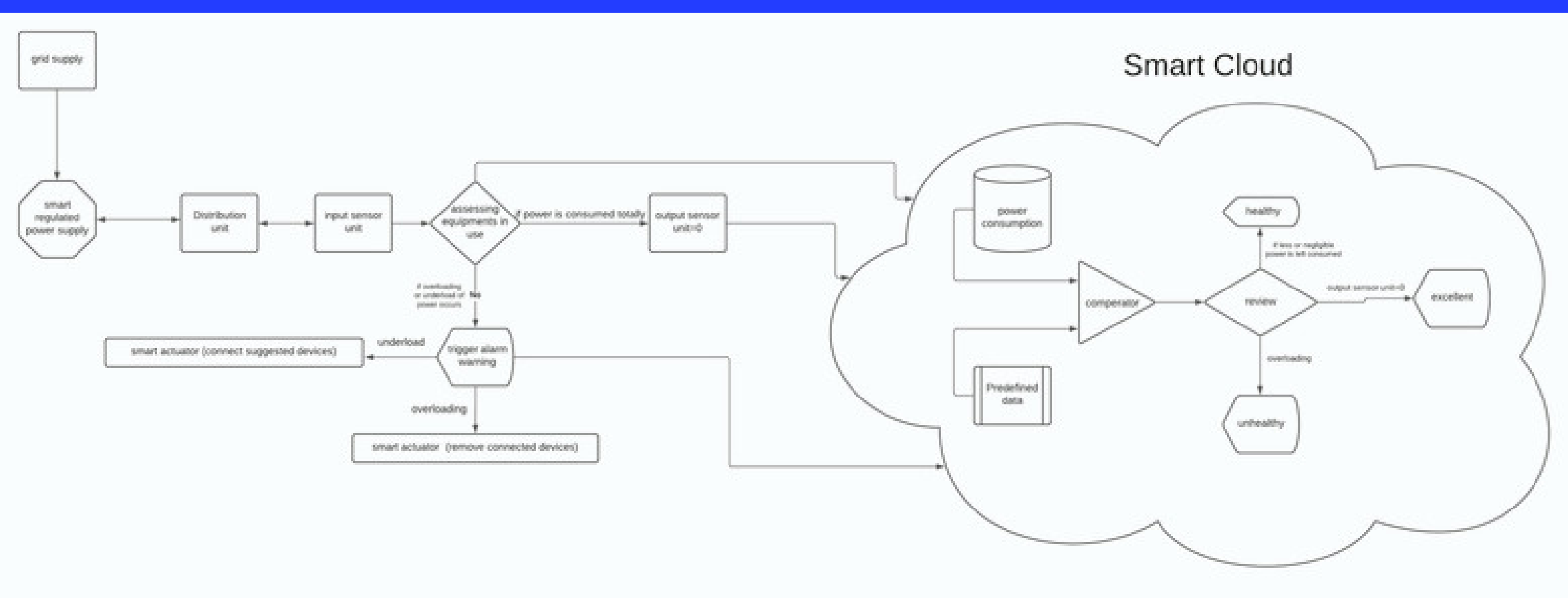
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GIVES INSTRUCTIONS BASED ON THE DETAILS
OBTAINED FROM SENSORS TO CAREFULLY
USE POWER INPUTTED USING ACTUATORS
AND ALSO TO REVIEW THE STATUS OF POWER
CONSUMPTION BASED ON PREDEFINED DATA.



ALGORITHM





BLOCK DIAGRAM

A photograph of a wall with a marble pattern, divided into horizontal sections by thin metal bars. To the right, some indoor plants are visible.

THE ERA OF SMART TECHNOLOGY WILL ATTRACT THE COMING GEN CITIZENS TO MOVE INTO SMART CONSUMPTION TO KEEP A CHECK ON THE REGULATION OF POWER-USE.

BUT AS THIS IS AN ARISING TECHNOLOGY IT WILL BE REALLY TIME-CONSUMING AND COST-INEFFECTIVE DUE TO INSUFFICIENT STORAGE AVAILABILITY AMONG COMMON PEOPLE LIVES.

A photograph of a modern interior space featuring a polished floor with a geometric pattern and several tall, cylindrical columns in the background.

CITATIONS

<https://www.hindawi.com/journals/wcmc/2018/9106430/>

www.researchgate.net

digital-library.theiet.org

**THANK
YOU**