

## ***ABSTRACT***

At this time the energy used by humans is very dependent on conventional electricity which uses fuel oil and coal as a source of processed energy. Therefore, renewable energy is needed that does not require a special place that can be stored in the battery to make it easier to use and charge the power storage area. In this case, the selection of energy used and the power/energy storage device will be very influential, therefore there are several influencing factors such as tools and applications that are connected via the internet.

In this research, a web application design is based on a device that saves energy to the battery through solar panels and can do management and controlling on the tool that has been made. So that the web application created later will display data, charging time and controller to cut off the device.

The final result of the web application that will be created can display the received data, battery charging status, and display how long the battery will be charged, as well as control the battery charging function to on/off while charging.

**Keywords:** *Web Application, Python, Smart Battery, Monitoring, Controlling.*