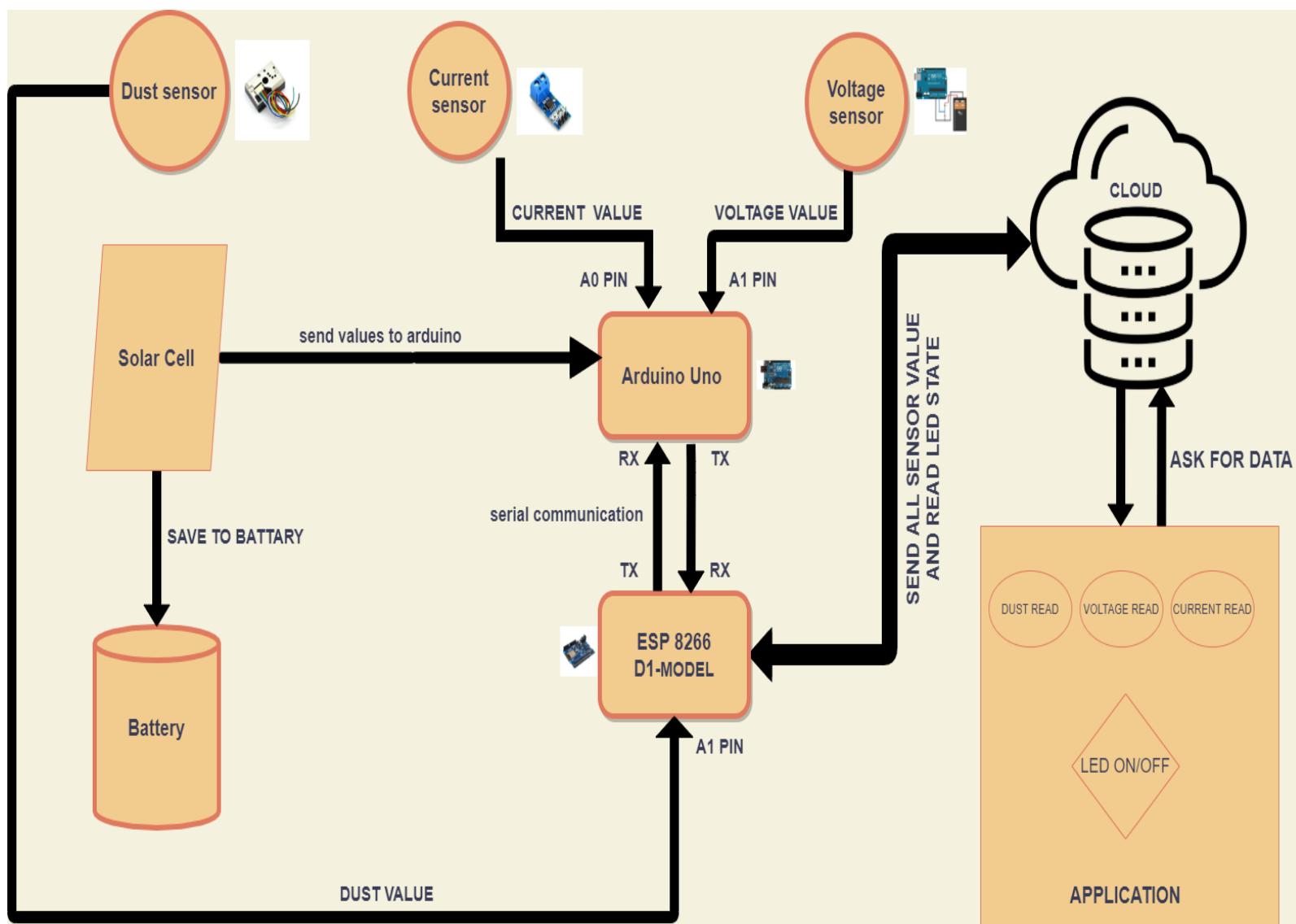


2.8 project design:

This block-diagram shows the work of the system and how data been send from the sensors to the Arduino and then to the DSP, then this data is sent using Wi-Fi to the database of the application used, and then read this data from the database to show it on the screen of the application.

And also how to read the status of the LED by sending a request by the DSP to the database within a certain time as long as it is connected to the Internet .



Design block-diagram

2.9 Design Problem:

During work on the project, I encountered some problems that had to be found in solutions or alternatives in order to establish the project, some of these problems:

- I have face a problem after I brushed the DSP I have found that its only have one analog input (to read sensors value), so I fixed that by using and Arduino to collect the current and voltage value and then connect the Arduino with DSP using serial communication to make them as one piece then use this data in my application.
- When I was searching for dust sensor, I couldn't find any one fits with my need in Jordan, So I used a replacement sensor that reads the level of dust in the air.
- Finding the electronic parts used in the project in my area, as well as according to the current conditions here, using the needs of people and thus raising the prices of these parts and the service of their delivery.