**System Architecture :**

The main goal of smart dustbin is keep our environment clean and hygienic. To build our smart dustbin we are using sensors .From this concept we are using a kind of sensors with a LED light to know exactly how much waste are inside the dustbin is it full or not [1].Here the center component is ARDUINO UNO which act like a system controller with that a power supplier and couple of ultrasonic sensors are connected also here a reset logic, crystal oscillator, LED, GSM Module are also connected [2].Here the ultrasonic sensors send information to the Arduino Uno to generate a notification message after the dustbin become full this message are sent to the user via sms and then with the help of GSM Module it on the LED light automatically[3].

**References:**

**[1]** [**https://www.researchgate.net/publication/325116872\_Smart\_dustbin\_based\_on\_IOT**](https://www.researchgate.net/publication/325116872_Smart_dustbin_based_on_IOT)

**[2]** [**https://www.researchgate.net/figure/Architecture-of-Smart-Dust-Bin\_fig1\_325116872**](https://www.researchgate.net/figure/Architecture-of-Smart-Dust-Bin_fig1_325116872)

**[3]** [**https://www.matec-conferences.org/articles/matecconf/pdf/2017/11/matecconf\_etic2017\_01098.pdf**](https://www.matec-conferences.org/articles/matecconf/pdf/2017/11/matecconf_etic2017_01098.pdf)