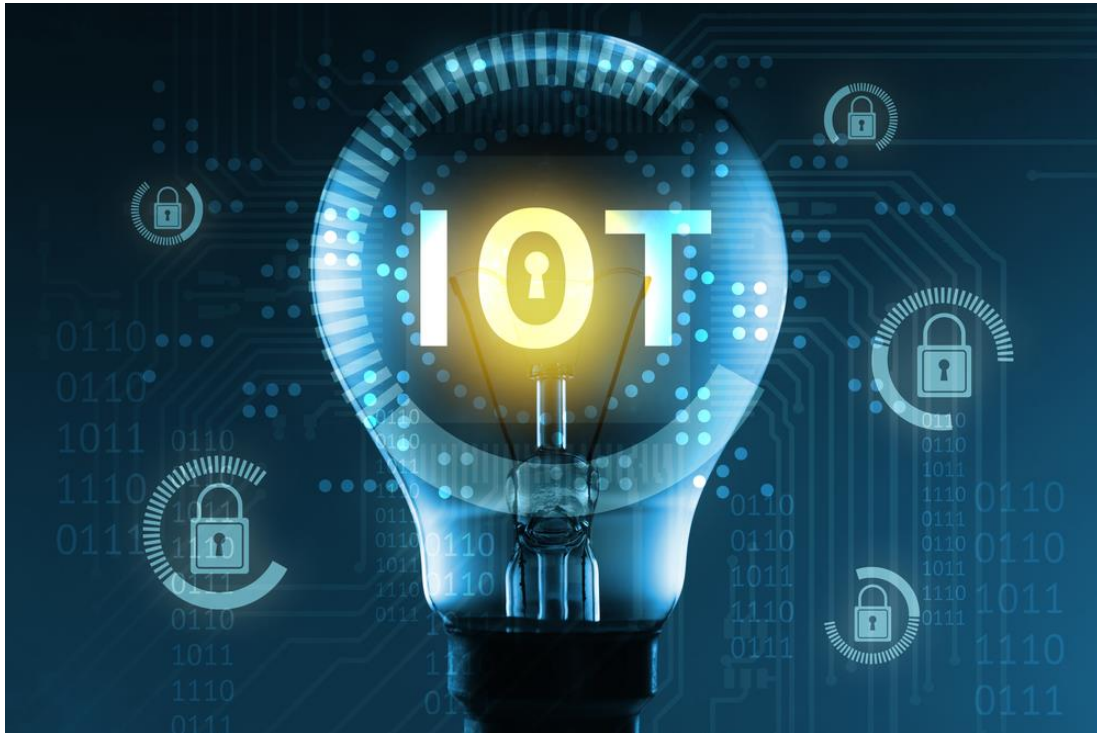# Automatic Lighting System with LED displaying temperature and Humidity

Requirement Specification Document:

This project can usually be at your gate as this realizes and switches on the light for you. This project has a PIR sensor which senses for any movement nearby and hence sends a signal. An LDR sensor is also been included so that when there is sufficient light nearby then switching On the light would not be required.

This even has an LCD Screen which prompts Welcome and shows the time and date using RTC module.

1. Users Perspective:

The user when he arrives near the object (probably gate) the light will switch on automatically if it is considerably dark. And a "welcome" message is shown with time and date.

2. Designer's Perspective:
   ➢ When a person arrives near the setup (considerably a door) the PIR sensor senses the movement generally even considering the heat index also and sends the signal to switch On the light.
   ➢ The LDR sensor at that time tells whether it is enough dark to switch On the light or let it be closed.
   ➢ As the PIR sends signal the LCD also shows Welcome Message with the date and time.
   ➢ There is a RTC module also used so that the system remembers the time and does not black out when there is no movement.

- Gaurav Singh Chandrabhan