**Requirements for ‘An IoT based smart indoor vertical farming’**

**High level Requirements:**

* Need to send alert notifications to the user when the tank is empty and the action to be taken by the user based on the alerts received.
* Provides the sensor data to the user through their mobile applications.
* Monitor and control the sensor readings and their thresholds for sending alerts.
* Determining whether there is darkness near the plants.
* Need to send alert messages to user when there is less amount of light to take necessary action.

**Low level Requirements:**

* Arduino Uno
* Sensors: DHT11, LDR sensor, soil moisture sensor, Ultrasonic sensor, Float sensor
* Arduino IDE software
* Bluetooth module HC-05
* Micro SD card adapter
* Racks for vertical farming
* Plants like Methi, Spinach, Coriander, Marigold