

## **Abstract:**

Many people nowadays are interested in doing their own gardening. Indoor gardening has several benefits, including the possibility to grow organic vegetables, the use of plants in house design, and air cleaning. People's hectic schedules are the most significant barrier to indoor gardening because plants require greater attention for development and health, necessitating the hiring of a "plant sitter" if they go on vacation. This issue can be handled by using the "Internet of Things" to automate plant monitoring. Indoor gardening uses the Internet of Things to monitor weather, temperature, moisture, pH levels, and many other variables using various environmental sensors. A Blynk app from IOT offers data on each of these items.

## **Objectives**

- To ensure plant's survival and growth, the buzzer sound is used to drive away bird activity.
- The plant's continued existence is secured through the utilization of a network of sensors that safe guard against the consequences of bird activity.
- The protection of plants from bird activity is accomplished through the implementation of overseeing mechanisms that ensure their survival.

## **Proposed System:**

- We will use a Blynk application to track sunshine, temperature and bird activity in order to get around the shortcomings of the current system. Plant related information and any bird activity will result in a notification and a beeping alert.
- The proposed system uses ESP8266 WIFI module, ESP32 camera module and Blynk application.

## **Literature Survey:**

The primary objective of this paper is to illuminate the utilization of the Blynk app within the framework of plant monitoring systems. The discussion underscores the prevalent adoption of Blynk as a user-friendly and effective avenue for remotely managing and monitoring plant conditions. Blynk stands out as an influential IoT platform, offering the tools to design and tailor mobile applications according to the specific demands of individual IoT projects.