PEST CONTROL APP

- Pest Heatmap
- Pest Classification
- NLP on Sentiment Analysis
- IoT for Anomaly Detection
- Recommender on Products
- Carnivorous Plants

IoT Components

Basic Setup Components

• ESP8266/ESP32

Description: Wi-Fi-enabled microcontroller for data collection and transmission.

Cost: \$5-\$10

Notes: ESP32 is recommended for better performance and flexibility.

DHT22 Sensor

Description: Measures temperature and humidity.

Cost: \$2-\$4

Notes: For basic use; upgrade to DHT22 (\$5–\$7) for more accuracy.

Soil Moisture Sensor

Description: Detects soil moisture levels (optional for specific pest conditions).

Cost: \$2-\$3

Notes: Useful for environments like farms or gardens.

LDR Sensor

Description: Measures light intensity, which can indicate conditions favorable to some pests.

Cost: \$2-\$3

Notes: Simple and effective for basic light monitoring.

Power Source

Description: USB power adapter or a battery pack.

Cost: \$5-\$15

Notes: Consider a rechargeable battery pack for portability.

Breadboard and Wires

Description: For connecting components.

Cost: \$5

Notes: Include resistors and jumper wires for assembly.

IoT Platform

Description: Platform for visualizing data and alerts (e.g., Thingspeak, Adafruit IO).

Cost: Free-\$10

Notes: Free options are available; paid plans offer more storage and features.