TOP STUDENT PROJECTS

Best innovations from VTU, Muddenahalli

PROJECT TITLE

SMART ONION STORAGE SYSTEM



Team 25 - Syntax Error

1. SHILPA H S
2. LIKITHA.R
3. BHAVANA S ALOOR
4. AMAR
5. VIKRAM
6. SUMITH



PROBLEM STATEMENT

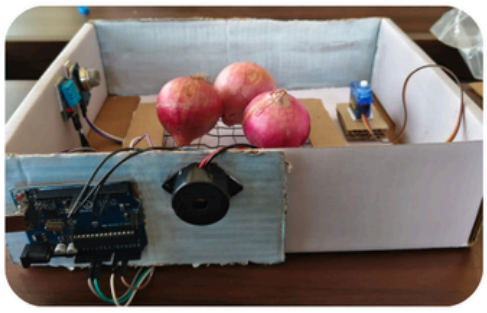
Onions spoil quickly during storage due to improper temperature, humidity, and ventilation conditions, leading to significant financial losses and food wastage.

SOLUTION

Develop a smart onion storage system using sensors and Arduino that continuously monitors storage conditions and automatically controls ventilation to reduce spoilage and increase onion shelf life.

The system uses temperature and humidity sensors to continuously monitor the environmental conditions inside the storage unit. When unfavorable conditions are detected, the Arduino automatically activates fans or ventilation systems to maintain optimal storage conditions.

Real-time sensor readings are displayed on an LCD screen, allowing farmers to monitor storage conditions easily. The automated system helps minimize post-harvest losses, improves onion quality, and reduces the need for manual monitoring.



SCAN ME

Technology stacks:

Arduino | Embedded C/C++ | Arduino IDE