

Formalize and explain an idea

Many great ideas only exist in people's minds. By making ideas tangible with a concept poster, they become shareable with others, allowing the idea to be presented, understood, critiqued, refined, and ultimately, embraced.

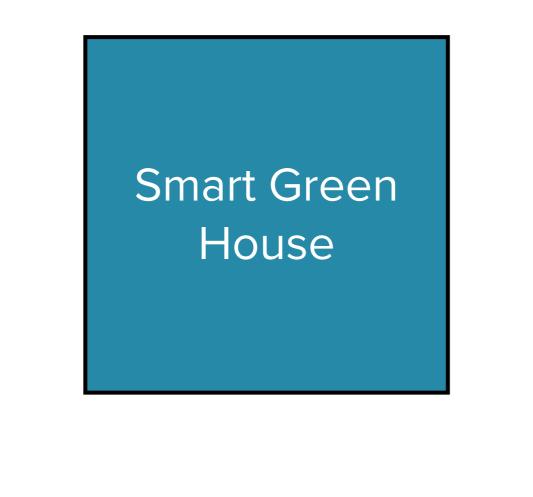
TEAM MEMBERS

BALAMURUGANR DIWAGAR RS DURGA SREE S JAYASURYAJ

IDEA / STARTING POINT

To feed the ever growing global population, the agriculture industry needs to be extended. Internet of Things opens the door wide for smart farming solution to increase the agricultural production. Farmers need to know the better understand of the important factors such as water, moisture, temperature and soil status of the yield.

Balamurugan R









Durga Sree S

Measure Soil

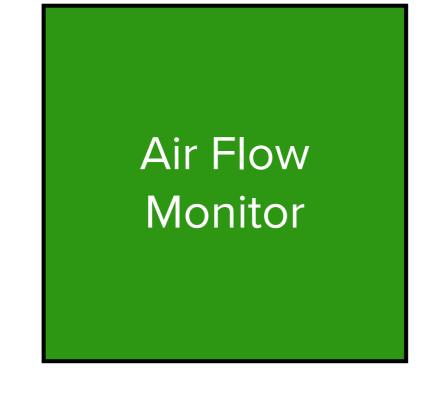
Compression

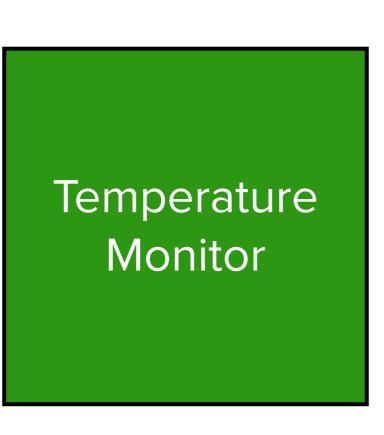


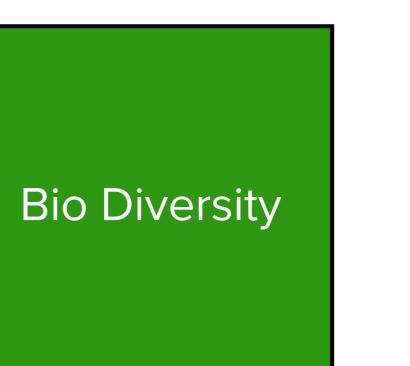
Humidity

Monitor

Diwagar R S









Jayasurya J









- ✓ The different soil parameters (temperature, humidity) are sensed using different sensors and the obtained value is stored in IBM cloud.
- The L298N is a Motor Driver IC which can control a set of two DC motors simultaneously in any direction.
- ✓ NodeMCU is used as a processing unit which processes the data obtained from sensors.
- ✓ Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways. It provides a browser-based editor.
- ✓ All the collected data are provided to the user through a mobile application which was developed using MIT app inventor.
- The user could make decision through an app, whether to water the crop or not, depending upon the sensor values.

RESEARCHERS GOVERNMENT

STACK HOLDERS

BIG

IDEA

