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**Project**

**Project Name:** Smart AgroFarm

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**Project Idea**

**Smart Agrofarm**

**Objective:** As we all know that our necessary different types of items including our food comes from plants. So, we thought of making such a project that might help the farmers and the harvesters to grow crops in a such a manner that they can produce maximum amount of healthy foods from those crops.

There have already been some similar projects where different types of ideas are shown. We are trying to add additional features in this project to make it better.

**Features:**

* Smart heat controlling system using shade.
* Smart water supplier.
* Smart security system.
* Utilizing rainwater for crops betterment.

**Smart heat controlling system using shade:** We will try to use a Temperature detection sensor to detect the heat so that if the heat is too much for the crops a shade will automatically come out. [The shade will remain folded initially].

**Sun**

Heat

**Temperature Sensor**

Observe

Limit

**Shade Open or Close**

**Smart security system:** We will try to confined the farm with a fence and we will keep the fence in a decent height and will put a motion sensor or an Infrared sensor. So, if anyone try to cross the fence it will give us signal and we will try to use voice over which will come out from the speaker.

**Alert**

**IR sensor**

**Fence**

Anyone Cross over the fence

**Utilizing rainwater for crops betterment:** Here we will try to use the rain sensor. As we know in many cases rain water is good for crops but too much water is not good. So, at that time after when it detects the rain the shade will automatically open up in a such a manner that after water dropping in the shade it will flow down from the shade in a particular place from where we can store the water and spread in the field.

**Water Spread in the field**

**Store in Particular place**

**Water Comes in Shade and Flows down**

**Shade open angular way**

After 3 to 5 min

Rain Water

**Rain Sensor**

**Rain**