SONA COLLEGE OF TECHNOLOGY, SALEM

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IBM NALAIYA THIRAN

TITLE : IOT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

DOMAIN NAME : INTERNET OF THINGS
LEADER NAME : SWETHA J
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PROBLEM STATEMENT

SMART FARMING IS A HI-TECH AND EFFECTIVE SYSTEM OF DOING AGRICULTURE AND GROWING FOOD IN A SUSTAINABLE WAY. IT IS AN APPLICATION OF IMPLEMENTING CONNECTED DEVICES AND INNOVATIVE TECHNOLOGIES TOGETHER INTO AGRICULTURE. SMART FARMING MAJORLY DEPENDS ON IOT THUS ELIMINATING THE NEED OF PHYSICAL WORK OF FARMERS AND GROWERS AND THUS INCREASING THE PRODUCTIVITY IN EVERY POSSIBLE MANNER.

WITH THE RECENT AGRICULTURE TRENDS DEPENDENT ON AGRICULTURE, INTERNET OF THINGS HAS BROUGHT HUGE BENEFITS LIKE EFFICIENT USE OF WATER, OPTIMIZATION OF INPUTS AND MANY MORE. WHAT MADE DIFFERENCE WERE THE HUGE BENEFITS AND WHICH HAS BECOME A REVOLUTIONIZED AGRICULTURE IN THE RECENT DAYS.

IOT BASED SMART FARMING IMPROVES THE ENTIRE AGRICULTURE SYSTEM BY MONITORING THE FIELD IN REAL-TIME. WITH THE HELP OF SENSORS AND INTERCONNECTIVITY, THE INTERNET OF THINGS IN AGRICULTURE HAS NOT ONLY SAVED THE TIME OF THE FARMERS BUT HAS ALSO REDUCED THE EXTRAVAGANT USE OF RESOURCES SUCH AS WATER AND ELECTRICITY. IT KEEPS VARIOUS FACTORS LIKE HUMIDITY, TEMPERATURE, SOIL ETC. UNDER CHECK AND GIVES A CRYSTAL CLEAR REAL-TIME OBSERVATION.

Empathy Map

Dive into the mind of the user for focused product development

Build empathy and keep your focus on the user by putting yourself in their shoes.