

# **AUTOMATIC FARM MONITROING AND MAINTAINING THROUGH MOBILE APPS**

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## Abstract

According to our country farming is important. Because most of the people again more income from farm in our country. They are doing in their own level. The maintaining is the very important thing in farming. Good maintaining will give good output. There is more money and man power is spend for maintaining. To decrease these problems I eager to do the automatic farm monitoring and maintaining through mobile apps as my final year research project.

By using a webpage the monitoring part can do. The online updates of the farm can observe through the web page. The data will be transfer from Arduino to ethernet. There is a local area network or any other network is needed in the farm area and monitoring area to make maintaining continuously. If there is no internet there may be an error.

To do the controlling part of the farm there is no need of internet or Bluetooth in the farm area and controlling area. It's a good advantage in this project. Because if there is no internet then also can control the farm. Only one man can make the maintaining and controlling of a farm. To do the controlling part there is a mobile apps was designed. The controlling person want to install the apps in his mobile and then he can make control through that apps. If there was a problem in the farm an alert message will come to that particular person's mobile. After he got the message he wants to open the apps in mobile. Through the apps he can solve the problem where he is. In here it may be an error when the person could not read the message.

By using this system the maintaining and monitoring of a farm is easy. But if there was no internet connection the monitoring cannot make properly. To omit this problem the project wants to modify by using the CCTV camera or any other devices. Controlling can make where we are and without internet or bluetooth. There are so many things can be control but in here I did for few things only. Humidity, temperature, water level and soil moisture are going to control. It can modify by using more sensors and other devices. After modifying it can use not only in farm but also in plants, factories, companies, home gardens, schools, universities and fields. It's a useful project with low expensive. By using this can decrease the man power and save the time. Anyone can use this because handling is easy. In future some modifications want to do.