Abstract

Infectious diseases are emerging globally at an unprecedented rate while global food demand is projected to increase sharply by 2100. The population size is predicted to be over 9 billion people, so human society needs to increase food production by an estimated 70% by 2050 to feed an expected population. In the other hand Infectious diseases reduce the potential yield by an average of 40% in addition to many farmers who in the developing world experiencing yield losses as high as 100%.

Because of these problems a farmer is usually use the expected solution which is hiring agricultural engineers, to help him in these problems which is costly.

By the advancement of technology, we can make use of that by providing methods to help the farmers to get rid of these issues, such as using an app that can take a photo for a plant, and the application, in turn, presents you with the result of this plant, is it infected with a pest or disease or it is healthy. Which is actually it being our application, but it doesn't do this process only you can also ask about anything related to your plant by creating a post in the post area and get answers from other users whom have a previous experience, finally, you can calculate the amount of required fertilizer based on the type of plant and land area on different periods of plant growth.