

Domain Analysis:

- The main issue is - trying to help farmers know the type of pests that affect their crops, in addition to knowing the appropriate treatment for this pest as soon as possible. Some new farmers also suffer from a lack of experience in some agricultural matters, so they need someone to exchange experience to have the best crop. It can be obtained in these conditions and using the appropriate tools and equipment available, present an experienced community where people can help each other in the faced problems. A chat-bot system will be available to increase users with many data for plants, so it can ask the system for any information about the plant from among the questions given, and the system will respond to it based on the question that was chosen.

- Identification of the pest: The farmer will be able to take a picture with his smartphone that he wants to know the type of pest infecting him. And then he uploads this image to the application on his phone so that the application analyzes the image and gives him the results of his analysis of the image and also gives him the best solutions and suggestions to treat this scourge.

- Applying AI Platform algorithms and classifiers, they showed promising results in image classification and decision-making to assist growers in their diagnosis, which will serve as a boost in improving plant care services through effective image analysis of symptoms (pests) suffered by the plant.

- Helping others/asking for help: Any farmer or anyone who wants advice or opinion or even advice on his plant or anything related to the plant he is interested in can ask a general question to all present or users of the application and one of them will respond to him, which increases him with general information or It saves him the trouble of searching in vain.

- Calculating the appropriate amount of fertilizer for the cultivated land; some plants suffer from a lack of increase in the percentage of fertilizer used, so the application will provide the correct standards that you can use in the cultivated land area to obtain the best fertilization.

-Chat-Bot: this system will be available to increase users with many data for plants, so it can ask the system for any information about the plant from among the questions given, and the system will respond to it based on the question that was chosen.