Functional Requirements

1 - A user interface that enables users create accounts, add their information ,the planets they are interested and the location of the users.

2 - Verification email is sent to user whenever he/she registers for the first time on some software system.

3 - The application allows to user to enter password and name to login to app.

4 - Authentication of a user when he/she tries to log into the system.

5 - The application must store all Users data

6 - The application shows to the user all posts of specific plants of the Nearby users

7 - Machine learning model to allow to user upload the plant image for plant examination from pests and diseases.

8 - A Server that stores Users data and Machine Learning Models.

9 - The user enters the plant type and agricultural area and the application outputs the best time distribution and quantity of fertilizer to grow well.

Nonfunctional requirements

- Emails should be sent with a latency of no greater than 12 hours.

-The application shows the post by the order of the tag plants and the location of the users.

1 - Performance requirement

- The application must respond any operation in less than 4 seconds.

2 - Safety and security requirements

- The application must not affect, harm, or damage users and there mobiles.

3 - Availability

- The application must be available within 24 hours every day.

4 - Usability

The application allows to users interact with the application to achieve required goals effectively and efficiently.