# Project Design Phase-II
# Solution Requirements (Functional & Non-functional)

| | |
|---|---|
| Date | 16 October 2022 |
| Team ID | PNT2022TMID28594 |
| Project Name | Project – Fertilizer Recommendation System for Disease Prediction |
| Maximum Marks | 4 Marks |

## Functional Requirements:

Following are the functional requirements of the proposed solution.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|---|---|---|
| FR-1 | User Registration | Registration through Form<br>Registration through Gmail<br>Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email<br>Confirmation via OTP |
| FR-3 | User Login | Login with user name<br>Login with password |
| FR-4 | Profile update | Update the user credentials<br>Update the Contact details |
| FR-5 | Uploading Images | Capture the image of the affected Crop<br>Upload the image of the affected Crop<br>This model will predict the disease of the affected Crop |
| FR-6 | Recommendation | User will request the fertilizer<br>Get the fertilizer recommendations |
| FR-7 | Ratings and Reviews | Share their Experiences<br>Give the Feedback |

## Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

| FR No. | Non-Functional Requirement | Description |
|---|---|---|
| NFR-1 | **Usability** | This service is designed and can be used on both website and mobile browsers so that the usability of this application is very efficient. |
| NFR-2 | **Security** | This can be used only by users who have their proper login credentials |
| NFR-3 | **Reliability** | In case of any issues such as the delay in the responses, it will be rectified to maintain its reliability. |
| NFR-4 | **Performance** | Sometimes the wrong predictions occur due to the inaccuracy of the model at a rare point, in order to rectify this, this application will run the model more than one time to predict the exact result and recommends the fertilizer for that disease. |
| NFR-5 | **Availability** | It will predict any type of new disease by learning from the available dataset and predict the disease accurately. |
| NFR-6 | **Scalability** | It can be accessed by a greater number ofusers at the same time without any performance issues. |