# Project Design Phase-II

**Solution Requirements (Functional & Non-functional)**

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| Date | 27 October 2022 |
| Team ID | PNT2022TMID31070 |
| Project Name | Project – Fertilizer Recommendation System for Disease Prediction |
| Maximum Marks | 4 Marks |

# Functional Requirements:

Following are the functional requirements of the proposed solution.

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

# Non-functional Requirements:

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

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| **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. |