

V.S.B. ENGINEERING COLLEGE, KARUR

Department of Electronics and Communication Engineering

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Project Design Phase-II

Solution Requirements (Functional & Non-functional)

Date	16 October 2022
Team ID	PNT2022TMID33603
Project Name	Fertilizers 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	The system allows the administrator to register a farmer. Registration through farm Registration through Email
FR 2	User Confirmation	The user(farmer)can conform the registration through Email, OTP
FR 3	Recommendation Send to User	The system should send the recommendation message to the farmer based on the results of the classification and disease predicted
FR 4	Feedback Send to User	System generates feedback to be sent out to farmer; name of fertilizer to apply and when.
FR 5	Identification of Fertilizer	System uses soil parameters and historical data to identify deficiency and recommend fertilizer

FR 6	Precautionary measures send to user	It will also recommend necessary precautionary measures required to treat the predicted disease.
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Non-Functional Requirements:

Following are the Non-Functional requirements of the proposed solution

FR NO	Non-Functional Requirement	Description
NFR 1	Usability	Describes the ease of learning and operating the system functions.
NFR 2	Security	It describes the security necessary for the system which prevents the unauthorized users to interact without permission.
NFR 3	Reliability	Describes the extent to which the system consistently performs its functions without fail.
NFR 4	Performance	The System provides acknowledgement within short amount of time which will be helpful for the user to predict and cure the disease faster.
NFR 5	Availability	Describes the degree of dependability of the system at all times. The system should be available at all times.
NFR 6	Scalability	The System has the ability to quickly enlarge the solutions in a scalable manner.