

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

Date	31 January 2025
Team ID	PNT2025TMID02661
Project Name	Predicting Plant Growth Stages with Environmental and Management Data Using Power BI
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	<ul style="list-style-type: none">- Registration through Form- Registration through Gmail- Registration through LinkedIn
FR-2	User Confirmation	<ul style="list-style-type: none">- Confirmation via Email- Confirmation via OTP
FR-3	Data Integration	<ul style="list-style-type: none">- Import Environmental Data- Import Management Data- Data Cleaning and Transformation
FR-4	Data Visualization	<ul style="list-style-type: none">- Create Dashboards in Power BI- Display Trends and Correlations- Generate Customized Reports
FR-5	Prediction System	<ul style="list-style-type: none">- Develop Machine Learning Models- Predict Plant Growth Stages- Provide Recommendations

Non-functional Requirements:

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

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The solution must have an intuitive and user-friendly interface.
NFR-2	Security	Ensure secure data storage and user authentication.
NFR-3	Reliability	The system should be highly dependable and provide accurate predictions.
NFR-4	Performance	Maintain fast processing and data visualization even with large datasets.
NFR-5	Availability	Ensure 99.9% system uptime to guarantee accessibility.
NFR-6	Scalability	The solution must be scalable to handle increasing data volumes and users.