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

Date	13 march 2025
Team ID	PNT2025TMID03012
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	Data collection	1.Collect environmental data (temperature ,soil moisture,humidity) 2.Collect managemental data (fertilizer)
FR-2	Data processing	Store raw data in .excel Clean and transform data
FR-3	Power bi dashboard	Display predicted growth stages visually

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The power dashboard should have an intuitive ui enabling farmers and agronomists to easily understand with data
NFR-2	Security	Security in Power bi to protect sensitive agricultural data
NFR-3	Reliability	Ensure data processing
NFR-4	Performance	Optimize power bi queries and dashboards to ensure real time data visualization
NFR-5	Availability	Power bi services for continue monitoring
NFR-6	Scalability	System should handle increasing data