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

Date	28 January 2025
Team ID	PNT2025TMID06943
Project Name	Predicting Plant Growth Stages with Environmental and Management Data Using Power Bi
Maximum Marks	4 Marks

Functional Requirements:

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	Simple and intuitive UI/UX for non technices user
NFR-2	**Security**	Implement authentication ,role-based access and data encryption

NFR-3	**Reliability**	Ensure consistent data accuracy and uptime

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 Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	Data Integration	Connect Power BI to sensor ,Databases or manual entry source
FR-4	Data Processing	Clean and Process Enviroment AI management data
FR-5	Growth Stage Pridiction	Apply Machine learning or role-based algorithms to predict Plant growth
FR-6	Visualization	Develop Power BI dashboard to display growth stage ytend and forcast

Non-functional Requirements:

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

NFR-4	**Performance**	Dashboard should load with in 5 sec for large data set
NFR-5	**Availability**	System should beavailable99.9% of the time0
NFR-6	**Scalability**	Support increasedata volume and additional user without performance drops.