

Project Design Phase

Problem Solution Fit

Date	15 March 2025
Team ID	PNT2025TMID06851
Project Name	Predicting Plant Growth Stages with Environmental and Management Data Using Power BI
Maximum Marks	2 Marks

		Purpose / Vision	
Define CS, fit into CC	1. CUSTOMER SEGMENT(S) Farmers, agronomists, agri-tech companies, agricultural researchers.	6. CUSTOMER CONSTRAINTS Limited technical expertise, budget constraints, unreliable internet access.	5. AVAILABLE SOLUTIONS Manual tracking, traditional weather-based methods, expensive IoT systems.
Focus on J&P, tap into BE, understand RC	2. JOBS-TO-BE-DONE / PROBLEMS Predict plant growth stages for better resource management. Optimize water, fertilizer, and pesticide use. Reduce risks from environmental changes.	9. Problem Root Cause (RC): Unpredictable weather, lack of advanced analytics, inefficient farm management.	7. BEHAVIOUR Relying on past trends, manual observations, inconsistent data collection.
Identify strong TR & EM	3. TRIGGERS: Unpredictable climate, rising demand for precision farming, government incentives.	10. YOUR SOLUTION Power BI-driven predictive dashboard integrating environmental & farm data for real-time plant growth forecasts, AI-driven insights, and resource optimization.	8. CHANNELS of BEHAVIOUR 8.1 ONLINE Power BI dashboards, mobile apps.
	4. EMOTIONS: BEFORE / AFTER • Before Uncertainty, inefficiency. • After: Confidence, higher yields.		8.2 OFFLINE Training workshops, government extension programs

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