

Project Design Phase

Problem Solution Fit

Date	24 March 2025
Team ID	PNT2025TMID06908
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.	CS	6. CUSTOMER CONSTRAINTS Limited technical expertise, budget constraints, unreliable internet access.	CC	5. AVAILABLE SOLUTIONS Manual tracking, traditional weather-based methods, expensive IoT systems.	AS
						Explore AS, differentiate
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.	J&P	9. Problem Root Cause (RC): Unpredictable weather, lack of advanced analytics, inefficient farm management.	RC	7. BEHAVIOUR Relying on past trends, manual observations, inconsistent data collection.	BE
						Focus on J&P, tap into BE, understand RC
Identify strong TR & EM	3. TRIGGERS. Unpredictable climate, rising demand for precision farming, government incentives.	TR	10. YOUR SOLUTION Power BI-driven predictive dashboard integrating environmental & farm data for real-time plant growth forecasts, AI-driven insights, and resource optimization.	SL	8. CHANNELS of BEHAVIOUR 8.1 ONLINE Power BI dashboards, mobile apps.	CH
	4. EMOTIONS: BEFORE / AFTER <ul style="list-style-type: none">Before Uncertainty, inefficiency.After: Confidence, higher yields.	EM		8.2 OFFLINE Training workshops, government extension programs		
					Extract online & offline CH of BE	

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