

PROJECT DESIGN PHASE-1

PROBLEM SOLUTION FIT

TEAM ID: PNT2022TMID36188

Date	12 october 2022
Team ID	PNT2022TMID36188
Project Name	IOT based Smart Crop Protection For Agriculture
Maximum Marks	2 Marks

Define CS, fit into CL	1. CUSTOMER SEGMENT(S) CS Farmer's ! Who's not near his field	6. CUSTOMER LIMITATIONS CL <small>EG. BUDGET, DEVICES</small> Reduce a need for manual labor Increased protection crop monitoring in a remote location	5. AVAILABLE SOLUTIONS AS <small>PLUSES & MINUSES</small> Electric fences were the methods already used by farmers for crop protection	Explore AS, differentiate
	2. PROBLEMS / PAINS PR <small>+ ITS FREQUENCY</small> Its is difficult to monitor and control. The consumers, on the other hand, depend on the crops as it provides them with a multitude of utilities.	9. PROBLEM ROOT / CAUSE RC The Animals in search of food enter the field and damage all the crops before harvesting. It affects the yield terribly	7. BEHAVIOR BE <small>+ ITS INTENSITY</small> Directly associated: Farmers made Electric fences to fear the animals. Indirectly associated: Involved human labours	
Identify strong TR & EM	3. TRIGGERS TO ACT TR Create opportunities to lift people out of poverty in developing nations (over 60%)	10. YOUR SOLUTION SL The crop protection system helps the farmers in protecting the crop from the animals and birds which destroy the crop. This system also helps farmers to monitor the soil moisture levels in the field and also the temperature and humidity values near the field. The motors and sprinklers in the field can be controlled using the mobile application.	8. CHANNELS of BEHAVIOR CH Online: Customers take online services to look up a survey of real time data in their framework created for them	Extract online & offline CH of BE
	4. EMOTIONS EM <small>BEFORE / AFTER</small> Farmers enjoy using this feature Easy to access & user friendly Can monitor within remote location		OFFLINE Customers take offline which have knowledge on about hardware products used in it for the data creation	